

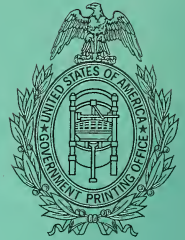
Proceedings of the 7th Annual Federal Depository Library Conference



April 20 – 23, 1998

Library Programs Service
U.S. Government Printing Office
Washington, DC 20401

U.S. Government Printing Office
Michael F. DiMario, Public Printer



Superintendent of Documents
Francis J. Buckley, Jr.

Library Programs Service
Vacant

Depository Services Staff
Sheila M. McGarr, Chief

Proceedings of the 7th Annual Federal Depository Library Conference

April 20 – 23, 1998

Washington National Airport Hilton
Arlington, VA

Library Programs Service
U.S. Government Printing Office
Washington, DC 20401

1998

Marian W. MacGilvray
Editor

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Table of Contents

Agenda.....	v
Draft: Depository Library Public Service Guidelines for Government Information in Electronic Formats: <i>Ridley R. Kessler, Jr, Daniel C. Barkley</i>	1
How to Draft a State Plan: <i>Stephen Henson, Paula Kaczmarek</i>	3
Promoting Depository Libraries: <i>Kathie Brinkerhoff</i>	6
Government Information? What's That? Old Challenges in a New Landscape: Promoting Government Information: <i>María Teresa Márquez</i>	9
Distributed Depository Responsibility: <i>Maureen Harris</i>	13
30 Years of Distributed Depository Responsibility: <i>Nancy Mulhern</i>	18
Distributed Regional Responsibility: Tennessee's Shared Regional Holdings Arrangement: <i>Ann Marie Sanders</i>	21
The Federal Bulletin Board: Helpful Hints in Its Use: <i>Catrena Hairston, James M. Mauldin</i>	24
Daily Treasury Statements via the Federal Bulletin Board System: <i>James M. Mauldin</i>	26
Electronic Shipping Lists: <i>James M. Mauldin</i>	27
Writing the Depository Self-Study: <i>Gail Snider, Stephen Henson</i>	29
Instructing the Undergraduate in Government Information: <i>Elizabeth A. Estes,</i> <i>Cheryl B. Truesdell</i>	37
Collection Management Using the Documents Data Miner: <i>Nan Myers</i>	44
Architecture and Functionality of Documents Data Miner: <i>John Ellis</i>	52
Documents Data Miner: A Resource for Collection Development and Management: <i>Cathy Hartman</i>	56
Mainstreaming of Technical Services Processing for Federal Depository Collections: <i>Fred C. Schmidt</i>	61
Public Access to Government Information: <i>Deborah Klein</i>	66
US NonProfit Gateway: http://www.nonprofit.gov : <i>Thomas Freebairn</i>	71
DOE Update: Embracing Technology to Increase Impact: <i>Walter L. Warnick</i>	74
Selected Models of Depository Management: <i>John W. Graham</i>	77
Models of Depository Management: From Archive to Access: <i>Nan Myers</i>	80
Government Documents as a Special Collection: <i>Coleen Parmer</i>	87
DOE Information Bridge: DOE R&D Full-Text on the Internet: <i>Kathleen Chambers,</i> <i>Lorrie Johnson</i>	93
Designing Your Government Documents Web Page for Your Community's Needs: <i>Ginny Hopcroft</i>	96
FDLP/ERIC Digital Library Pilot Project: <i>George Barnum</i>	100
FDLP/ERIC Digital Library Pilot: <i>John Hearty</i>	102
Office of the Federal Register and Its Publications: <i>Ann Maso</i>	104
GIS Software, Applications & Management: <i>Donna Koopp</i>	107
GIS Software, Applications, and Management: Providing Public Access to MapInfo and ArcView: <i>Barbara Levergood</i>	110
ArcView 2.1 and Bureau of the Census Data Sets: <i>John S. Walters</i>	114
U.S. Senate Bibliographies Project: <i>John A. McGeachy</i>	116
Training Non-Documents Staff to Do Documents Reference: <i>Cynthia Teague</i>	119

Access to EPA's Information: An Update: <i>Jonda Byrd</i>	123
U.S. Congressional Serial Set: <i>Virginia Saunders</i>	125
U.S. Congressional Serial Set: Its History and Future: <i>Robin Haun-Mohamed</i>	131
Web-Based Library Instruction for Government Documents: <i>Stephen Allan Patrick</i>	133
NTIS/GPO Electronic Image Format: Pilot Project: <i>Sandy Schwalb</i>	136
NTIS-GPO Imaging Pilot Project: <i>Kristin M. Vajs</i>	138
Report on a "Pre-Pilot" of a Project to Deliver NTIS Electronic Image Files to a Depository Library: <i>Linda Kennedy</i>	143
Web Page Template for Government Information: <i>Cathy N. Hartman</i>	148
LandView III and the CEIS Digital Library of the State of the Environment: <i>Brand L. Niemann</i> ...	149
The SEC Website as a Reference Source: The EDGAR Database and Beyond: <i>Ruth S. Pitt</i>	160
Assessment of Electronic Government Information Products: Study Status: <i>Woody Horton</i>	163
The Hill on the Net: <i>Chris Casey</i>	165
Out of the Basement: The Internet and Document Public Services: <i>Grace Ann York</i>	170
Contributors	177

Agenda

DEPOSITORY LIBRARY COUNCIL & FEDERAL DEPOSITORY CONFERENCE

April 20 - 23, 1998

Washington National Airport Hilton
2399 Jefferson Davis Highway
Arlington, Virginia

Sunday, April 19

Morning **All day meeting of regional librarians at University of Maryland**

8:45 Welcome

- Sheila M. McGarr, LPS, GPO
- Francis J. Buckley, Jr., Superintendent of Documents

9:00 Service Provided by Regionals for Electronic Products

- Ridley R. Kessler, Jr., Documents Librarian, University of North Carolina, Chapel Hill
- Daniel C. Barkley, Government Information Librarian, University of New Mexico

10:15 Break

10:45 State Plans

- Paula Kaczmarek, Manager, Government Documents, Detroit Public Library
- Stephen Henson, Documents Librarian, Louisiana Tech University

12:00 Working Lunch

Afternoon

1:30 Promotion of Government Information

- Kathie Brinkerhoff, Documents Librarian, University of Nevada, Reno
- Maria Teresa Marquez, Head, Government Information Department, University of New Mexico

- 2:45 Break
- 3:00 Distributed Depository Responsibility
- Maureen Harris, Head, Public Documents Unit, Clemson University
 - Nancy Mulhern, Head, Documents, Patents & Periodicals, University of North Dakota
 - Ann Marie Sanders, Depository Librarian, Library of Michigan
- 4:00 Tour of University of Maryland Regional Operation
- Linda Spitzer, Acting Head, Government Documents & Maps, University of Maryland
- 4:00-5:00 Orientation to the Depository Library Council and Federal Depository Library Conference
- This session is designed to acquaint first time attendees with how Council works and to preview Conference activities over the next 3 ½ days.
- Cynthia Etkin, LPS, GPO, Facilitator
 - Gail Snider, LPS, GPO, Facilitator
- 6:00 Informal pre-dinner get-together to network by food preference

Monday, April 20

Morning

- 8:00 Registration and Coffee with Council and GPO Staff
- 8:30 Welcome & Remarks
- Anne Watts, Council Chair
 - Michael F. DiMario, Public Printer
- 9:00 GPO Update
- Francis J. Buckley, Jr., Superintendent of Documents
 - J.D. Young, Director, Documents Sales Service
 - T.C. Evans, Assistant Director, Office of Electronic Information Dissemination Services (EIDS)
- 10:00 Break
- 10:30 GPO Update (continued)
- Gil Baldwin, Chief, Library Division, LPS
 - Robin Haun-Mohamed, Chief, Depository Administration Branch, LPS
 - Thomas A. Downing, Chief, Cataloging Branch, LPS
 - Sandy Schwalb, Management Analyst, LPS
- 12:00 Lunch

Afternoon

- 1:30-4:00 Depository Library Promotional Materials, Order Forms, and Upcoming Marketing Efforts
- Staff, Promotion & Advertising, GPO
- 2:00-3:15 Depository Library Council
Committee Reports and Recommendations for Council Action
- 2:00-5:00 New Documents Librarians
Informal session to answer questions from mundane to complex about depository operational issues. For new documents librarians or those who feel "new" to any aspect of depository librarianship. Veteran documents librarians from a variety of backgrounds plus GPO staff will be available.
- Vicki A. Barber, LPS, GPO, Facilitator
 - Sheila M. McGarr, LPS, GPO, Facilitator
- 2:00-3:15 GPO Access (demonstration): All Databases
Part I: Introduction, Overview, and New Products
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO
- 2:00-3:15 Open Text Software for GPO Access (demonstration)
- Bonnie B. Trivizas, Graphic Systems Development Division, GPO
- 2:00-3:15 Federal Bulletin Board: Helpful Hints in Its Use
- Catrena L. Hairston, EIDS, GPO
 - James M. Mauldin, LPS, GPO
- 2:00-3:15 Hints in Writing the GPO Self-Study
- Stephen Henson, Documents Librarian, Louisiana Tech University
 - Gail Snider, LPS, GPO
- 2:00-3:00 LPS Tour
- 2:00-3:00 Patent Public Search Room Tour
- 2:00-3:00 Center for Legislative Archives Tour
- 2:00-4:00 STAT-USA/Internet Demonstration
- 3:15-3:45 Break
- 3:45-5:00 Pathway Services (demonstration)
- Lee Morey, LPS, GPO

- 3:45-5:00 GPO Access (demonstration): All Databases
Part II: How to Set Up “Train the Trainer” Sessions and Q & A
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO
- 3:45-5:00 Instructing the Undergraduate in Government Information
- Beth A. Estes, Government Information Librarian, Valparaiso University
 - Cheryl B. Truesdell, Government Documents Librarian, Indiana University-Purdue University, Fort Wayne
- 3:45-5:00 Collection Management Using the Documents Data Miner
- Nan L. Myers, Government Documents Librarian, Wichita State University
 - John M. Ellis, Senior Database Analyst, National Institute for Aviation Research, Wichita State University
 - Cathy N. Hartman, Documents Librarian, University of North Texas
- 3:45-5:00 Depository Library Council Working Session
- 5:30 Dinner with Council and GPO (Informal groups meet in hotel lobby)

Tuesday, April 21

Morning

- 8:00 Coffee with Council & GPO Staff
- 8:30 Depository Library Council: Plenary Session
Service Guidelines for Electronic Information: Final Report
- Diane Eidelman, Council Member
- 9:15 Depository Library Council: Plenary Session
Statistical Measurement and the Biennial Survey: Report
- Diane Garner, Council Member
- 10:00 Break
- 10:30 Depository Library Council: Plenary Session
Managing the FDLP Electronic Collection
- Gil Baldwin, LPS, GPO
 - George D. Barnum, LPS, GPO
- 12:00 Lunch

Afternoon

- 1:30-4:00 Depository Library Promotional Materials, Order Forms, and Upcoming Marketing Efforts
- Staff, Promotion & Advertising, GPO

- 2:00-5:00 Depository Library Council Working Session
- Topics TBA
- 2:00-3:15 Talk Tables
- FDLP/ERIC Digital Library Pilot Project (demonstration)
- Staff, OCLC
- Mainstreaming of Technical Services Processing for Federal Depository Collections
- Fred C. Schmidt, Government Documents Specialist, Colorado State University
- 2:00-3:15 Federal Agency Update Session, Part I
- Census Bureau
- John C. Kavaliunas, Assistant Chief, Marketing Services Office, Bureau of the Census, U.S. Department of Commerce
- Bureau of Labor Statistics
- Deborah P. Klein, Associate Commissioner, Office of Publications & Special Studies, Bureau of Labor Statistics, U.S. Department of Labor
- STAT-USA
- Ken Rogers, Director, STAT-USA, Economics and Statistics Administration, U.S. Department of Commerce
- 2:00-3:15 GPO Access (demonstration): All Databases
- Part I: Introduction, Overview, and New Products
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO
- 2:00-3:15 Pathway Services (demonstration)
- Lee Morey, LPS, GPO
- 2:00-3:15 Open Forum: Sales Program
- James T. Cameron, Promotion & Advertising Branch, GPO
 - Alan E. Ptak, Sales Management Division, GPO
 - Denise L. Thompson, Order Division, GPO
- 2:00-3:00 LPS Tour
- 2:00-3:00 Tour of the Ralph Bunche Library
- 2:00-3:00 Trademark Public Search Room Tour
- 2:00-3:00 National Digital Library Demonstration
- 3:15-3:45 Break
- 3:45-5:00 Talk Tables
- FDLP/ERIC Digital Library Pilot Project (demonstration)
- Staff, OCLC
- AskLPS (demonstration)
- Joseph P. Paskoski, LPS, GPO

- 3:45-5:00 Federal Agency Update Session, Part II
U.S. NonProfit Gateway
- Thomas Freebairn, Director, Communication Catalyst
Department of Energy
 - Dr. Walter L. Warnick, Director, Office of Scientific and Technical Information,
U.S. Department of Energy
PubMed
 - Rhonda Allard, Technical Information Specialist, MEDLARS Management
Section, National Library of Medicine
- 3:45-5:00 GPO Access (demonstration) All Databases
Part II: How to Set Up “Train the Trainer” Sessions and Q & A
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO
- 3:45-5:00 Hints in Writing the GPO Self-Study
- Stephen Henson, Documents Librarian, Louisiana Tech University
 - Gail Snider, LPS, GPO
- 3:45-5:00 Open Text Software for GPO Access (demonstration)
- Bonnie B. Trivizas, Graphic Systems Development Division, GPO

Wednesday, April 22

Morning

- 8:00 Coffee with Council & GPO Staff
- 8:30-12:00 Depository Library Council Working Session
Draft Recommendations and Action Items
- 8:30-10:00 Selected Models of Depository Management
- John W. Graham, Head, Public Documents & Patents, Public Library of
Cincinnati & Hamilton County
 - Nan L. Myers, Government Documents Librarian, Wichita State University
 - Coleen Parmer, Head, Government Documents, Bowling Green State University
- 8:30-10:00 Understanding Patent and Trademark Basics for Better Referrals
- Amanda Putnam, Administrative Librarian, Patent & Trademark Depository
Library Program, U.S. Patent & Trademark Office
- 8:30-10:00 Department of Energy Information Bridge: DOE R&D Full Text on the Internet
- Kathleen Chambers, Product Manager, Office of Scientific & Technical
Information, U.S. Department of Energy
 - Dr. Walter L. Warnick, Director, Office of Scientific and Technical Information,
U.S. Department of Energy
 - Lorrie Johnson, Technical Information Specialist, Office of Scientific and
Technical Information, U.S. Department of Energy

- 8:30-10:00 Talk Tables
- Designing Your Government Document Home page for Your Community's Needs
 - Ginny W. Hopcroft, Government Documents Librarian, Bowdoin College
 - Planning Like It's (ALA) 1999: Government Resources for Citizen Participation, Advocacy, and Education
 - Robert A. Hinton, Reference/Documents Librarian, Indiana University-Purdue University, Indianapolis
- 8:30-10:00 FDLP/ERIC Digital Library Pilot Project
- Blane K. Dessy, Executive Director, National Library of Education, U.S. Department of Education
 - John A. Hearty, Director, Business Development Division, OCLC
 - George D. Barnum, LPS, GPO
- 8:30-12:00 Depository Library Promotional Materials, Order Forms, and Upcoming Marketing Efforts
- Staff, Promotion & Advertising, GPO
- 10:00 Break
- 10:00-11:00 LPS Tour
- 10:00-11:00 Tour of the Ralph Bunche Library
- 10:00-11:00 Patent Public Search Room Tour
- 10:00-11:00 National Digital Library Demonstration
- 10:30-12:00 Office of the Federal Register and Its Publications
- Ann E. Maso, Writer/Editor, Office of the Federal Register, National Archives & Records Administration
- 10:30-12:00 GIS Software, Applications, and Management
- Donna P. Koepp, Head, Government Documents Library, University of Kansas
 - Julia F. Wallace, Head, Government Publications, University of Minnesota
 - Brent Allison, Head, John R. Borchert Map Library, University of Minnesota
 - Ridley R. Kessler, Jr., Documents Librarian, University of North Carolina, Chapel Hill
 - Barbara Levergood, Electronic Documents Librarian, University of North Carolina, Chapel Hill
 - John S. Walters, Head, Government Documents, Utah State University
- 10:30-12:00 Talk Tables
- AskLPS (demonstration)
 - Joseph P. Paskoski, LPS, GPO
 - Senate Bibliographies Project
 - Jack McGeachy, Documents Librarian, North Carolina State University

- 10:30-12:00 GPO Access Focus Group
- T.C. Evans, EIDS, GPO, Facilitator
- 10:30-12:00 Making Documents Reference Less Threatening: Training Non-Documents Staff
- Cynthia Teague, Federal Documents Librarian, Michigan State University
- 12:00 Lunch
- Afternoon*
- 2:00-5:00 Depository-Library Council Working Session
- 2:00-3:15 Federal Agency Update Session, Part III
- U.S. Geological Survey's New Products
- Rea Mueller, Geographer, U.S. Geological Survey
- Environmental Protection Agency
- Jonda C. Byrd, National Library Network Program Manager, Environmental Protection Agency
- National Labor Relations Board
- Ken Nero, Chief Librarian, National Labor Relations Board
- 2:00-3:15 U.S. Congressional Serial Set: Its History and Future
- Virginia Saunders, Congressional Printing Management Division, GPO
 - Robin Haun-Mohamed, LPS, GPO
- 2:00-3:15 Talk Tables
- Partnership Opportunities with GPO
- George D. Barnum, LPS, GPO
- Web-based Library Instruction for Documents
- Stephen A. Patrick, Head, Documents, Law & Maps, East Tennessee State University
- 2:00-3:15 NTIS/GPO Electronic Image Format Pilot Project
- Kristin M. Vajs, Director, Office of Database Programs, National Technical Information Service
 - Sandy Schwalb, LPS, GPO
 - Linda M. Kennedy, Head, Government Documents, University of California, Davis
 - Duncan M. Aldrich, Head, Business & Government Information Center, University of Nevada, Reno
- 2:00-3:15 GPO Access (demonstration): All Databases
- Part I: Introduction, Overview, and New Products
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO

- 2:00-3:15 Federal Bulletin Board: Helpful Hints in Its Use
- Catrena L. Hairston, EIDS, GPO
 - James M. Mauldin, LPS, GPO
- 2:00-3:00 LPS Tour
- 2:00-3:00 Trademark Public Search Room Tour
- 2:00-3:00 Center for Legislative Archives Tour
- 3:15-3:45 Break
- 3:45-5:00 GPO Access (demonstration): All Databases
- Part II: How to Set Up "Train the Trainer" Sessions and Q & A
- Terri R. Barnes, EIDS, GPO
 - Jackie Gregory, EIDS, GPO
- 3:45-5:00 Talk Tables
- Government Information Web Page Template
- Cathy N. Hartman, Documents Librarian, University of North Texas
- 3:45-5:00 New Products from the Census Bureau: American Community Survey and LandView III
- Paul T. Manka, Landview Project Manager, Geography Division, Bureau of the Census, U.S. Department of Commerce
 - Brand L. Niemann, Digital Librarian and Computer Specialist, U.S. Environmental Protection Agency
 - Elaine Quesinberry, Marketing Specialist, Marketing Services Office, Bureau of the Census, U.S. Department of Commerce
- 3:45-5:00 Federal Agency Update Session, Part IV
- Securities and Exchange Commission
- Ruth S. Pitt, Computer Specialist, Office of Information Technology, U.S. Securities and Exchange Commission
- FedStats
- Paul Bugg, Economist, Office of Management and Budget
- 3:45-5:00 Assessment of Electronic Government Information Products: Update and Discussion
- Woody Horton, Consultant, National Commission on Libraries and Information Science

Thursday, April 23

Morning

- 8:00 Coffee with Council & GPO Staff
- 8:30 The Hill on the Net
- Chris Casey, Technology Advisor, Democratic Technology & Communications, United States Senate
- 9:15 Out of the Basement: The Internet and Document Public Services
- Grace A. York, Coordinator, Documents Center, University of Michigan
- 10:00 Break
- 10:30 Depository Library Council: Plenary Session
Report of Draft Recommendations and Action Items (including audience response and comments)
- 12:00 Adjourn

Draft: Depository Library Public Service Guidelines for Government Information in Electronic Formats

Ridley R. Kessler, Jr.
University of North Carolina, Chapel Hill
Chapel Hill, NC

Daniel C. Barkley
University of New Mexico
Albuquerque, NM

1. All depository libraries should have a written policy regarding public services for Government information in electronic formats. This policy should also contain provisions for no-fee access to computer workstations with CD-ROMs, diskettes, and the Internet. These should be equal to or exceed the services provided by other departments of the library.
2. All depository libraries should offer access to electronic information for the general public. Attempts must be made to purchase hardware that meets the latest Recommended Specifications for Public Access Work Stations in Federal Depository Libraries as published in Administrative Notes (updated annually).
3. All depository libraries should make tangible electronic products and services (CD-ROMs, floppy diskettes) available to the general public in a timely manner. For example, if a product is not currently loaded and/or supported on a depository library's computer workstation, the depository library should attempt to provide access to it within a designated time frame as determined by each library. If the depository library is unable to provide adequate access to and technical support of tangible electronic products, circulation of those products should be made available in accordance with the library's circulation policies of other non-Governmental tangible electronic products or other depository resources.
4. All depository libraries should provide Internet access to Government information at no cost to the general public. Access should also include Telnet and FTP capabilities to encourage downloading and/or transmission of electronic data.
5. Depository libraries are encouraged to develop home pages or bookmarks for Government information and/or work cooperatively with other depository libraries in their area to provide links to prominent or useful sites for the general public; such efforts would be in line with Section 8-6, (publicizing the depository collection) of the Guidelines for the Federal Depository Library Program.
6. Depository library public service areas should have a capability for fax and e-mail delivery of Government information to

distance users in accordance with existing policies in the library.

7. Depository libraries are obligated by law to provide public access to depository receipts, including electronic Government information products. Depository libraries should provide the ability to download or print electronic Government information in accordance with GPO requirements and guidelines. Limits to or cost associated with printing or downloading shall be consistent with other public service provisions of the library.
8. Whenever possible, depository libraries are encouraged to provide hard disk space on publicly available computers for temporary storage of electronic Government information for patron use.
9. Depository libraries should provide adequate reference service and help guides/documentation of tangible electronic products and the Internet for the general public.
10. Depository libraries are encouraged to offer training for the general public in using tangible electronic products and Internet resources.

How to Draft a State Plan

Stephen Henson

Louisiana Tech University
Ruston, LA

Paula Kaczmarek

Detroit Public Library
Detroit, MI

The discussion of writing a state plan is not new. At its meeting in Spring 1981, the Depository Library Council passed a resolution recommending “the Public Printer investigate the feasibility of requiring each state to prepare a plan to coordinate the Federal documents depository program within the state.” Faull describes the development of the idea of state plans. The original idea for writing a state plan was to assist the regionals in meeting their responsibilities.

Function of a State Plan

A state plan can do several things.

- Define the roles of the various stakeholders in the plan: the regional/s, the selective depository libraries, library users, and others.
- Set goals and objectives for the depository libraries in a state.
- Outline strategies to reach the goals.

Purpose of a State Plan

A well-crafted state plan can accomplish several things for the depository community in a State.

- Focus efforts of all Federal depositories in the state.

- Encourage Federal depository librarians to think of themselves as part of a system, rather than as a lone entity.
- Foster communications through meetings and committee work.
- Encourage cooperative efforts among depositories.
- Distribute responsibilities among the depositories in a State.
- Promote partnerships with libraries or other agencies.
- Create a standard procedure for discards and other depository procedures.

Before Writing a State Plan

- Use e-mail to initiate discussion of the purposes of writing a plan.
- Look at plans that are available on the Web.
- Discuss the process of writing a plan and seek a consensus as to who is in charge of the plan.
- Involve Governmental agencies as appropriate in the State.

- Solicit input from all types of libraries or library representatives and associations.

Conduct a Needs Assessment

The needs assessment will identify what the various players need and what they can contribute. The needs assessment will serve as a diagnostic tool to identify what the depositories need to do to improve their effectiveness.

- What can the regional contribute?
- In what areas does the regional need help?
- What can the selectives contribute?
- In what areas do the selectives need help?
- Are there libraries outside the depository program that can help?
- Look at electronic service networks and electronic needs.

Draft the Plan

- Appoint a representative committee to write the draft.
- Include in the plan the desirable features outlined by Faull or O'Mahoney (see below).
- Decide what to omit from the plan. What you omit may be as important as what you include.

10 Elements to be Addressed or Considered in All State Plans

- Collections—Responsibility for a complete collection
 - Current item selection
 - Retrospective collection development
 - Disposal
 - Transfer of material

- Service—Services must be related to collections

- On-site
- Interlibrary loan

- Bibliographic Access—All depositories must have a convenient way to know who has what
- Communication among state plan participants
- Financial responsibility
- Goals
- Review and evaluation mechanism
- Signed agreement among the participants
- Approval by state library agency or other designated body
- Other considerations
 - Visits
 - Training
 - Publicity
 - Optional participation by Federal libraries

Faull, Sandra K., "State Plans': Their Development and Potential for Regional Depository Libraries Participating in the GPO Depository Program," *Government Information Quarterly*, vol. 2, no. 2 (1985) p. 161, citing Report of Depository Library Systems Committee—September 1981 (Washington, DC: GPO, 1981)

State Plan URLs 4/98

Louisiana
<http://www.lib.lsu.edu/govdocs/laplan2.html>

Michigan
<http://www.libofmich.lib.mi.us/publications/feddocdep.html>

Missouri
http://www.missouri.edu/~elliswww/govdocs/fdl_plan.htm

Oregon
<http://www.lib.pdx.edu/resources/govdocs/stpln.html>

Elements of State Plans

1. Designation of partner libraries by congressional district.
2. Provision of specific steps for meeting Government information needs of local users including users with special needs.
3. Delineation of partnerships between partner libraries and other agencies or entities that create and/or provide access to Government information.
4. Sharing of access/collection responsibilities, both current and historical, based on subject strengths of libraries or geographic considerations.
5. Identification of Government information holdings through online catalogs, union lists, and other locator systems.
6. Integration and improvement of existing resource sharing/document delivery agreements.
7. Provision of opportunity for all partner libraries to provide basic electronic access.
8. Coordination of training for staff and public in the use of electronic information resources.
9. Provision of enhanced services for access to complex electronic products requiring special software and/or equipment.
10. Incorporation of library arrangements within the state/region for national level

archiving and preservation of Government information.

11. Encouragement of local/state advisory and support groups.
12. Identification of measures of accountability for program partners.
13. Advocacy for citizen access to Government information and citizen education regarding such access.
14. Provision of feedback mechanisms for information creators and access providers to evaluate Government information products and services.
15. Coordination with other appropriate state plans, including plans for interlibrary cooperation under the Library Services and Construction Act, state plans for public access to state Government information, and state telecommunications plans.
 - Existing library plans meeting, or modified to meet, Partnership specifications may be used as the Partnership plan.
 - The state plan requirement also may be met in whole or in part by reference to multi-state plan or a regional plan.

O'Mahony, Daniel P., "State and Regional Service Strategies for an Electronic Federal Depository Library Program," *Journal of Government Information*, vol. 23, no. 4, (1996) p. 434, app.

Promoting Depository Libraries

Kathie Brinkerhoff

University of Nevada, Reno
Reno, NV

Teresa and I decided to try to keep our presentations short so that we can have a discussion with everyone sharing ideas and suggestions on what you've done that has worked or not worked. Our goal is to start each of us thinking about what we can or might do in our own libraries. What are the possibilities? Teresa is going to talk about some of the more unusual places or ways to promote our depositories while I'm going to talk about promotion as part of a larger marketing plan and focus mainly on the planning process, the things to consider before we promote. We need to think of marketing or promotion as more of an ongoing process than as a single task. We need to carefully plan out what we want to accomplish and whom we want to reach.

There are several elements we need to consider in our planning process. We each have a different clientele and environment. Some of us are academic, some state, some public libraries. Some of us have more money or staff than others. We offer some different services, but we have definite—obvious—similarities. Even if our libraries were totally different, we would still use the same planning process, though each of us must determine the best plan for our own library.

The Marketing Mix

In the marketing literature, they talk about the marketing mix, or the 5 P's. People, product, price, place, and promotion. A marketing plan is built around these five elements. We have to consider each of them as we plan how to promote or market our depositories.

People

The first thing we have to do is identify our users and potential users. Who are they? What information do they need? Where are they getting their information now? Are they using the library? Why or why not? What is their library skill level? Do they have electronic access? Do they know we exist? Do they want or need our products? Why? What's in it for them? Our promotion will be more successful if we can target it to a specific group.

Some depositories, such as a legal library or an agricultural library, may have a very specialized user group. But most of us have many user groups. At the University of Nevada, Reno we have a combined business and documents collection, so we count the College of Business as one of our principle user groups. We can divide that group into students and faculty, undergraduate and graduate. There are also international students, international marketing and economics majors, etc. One large group can be narrowed down in many different ways.

We also serve the town patrons who come in to use the depository collection—or they come in to use the business collection and discover the depository collection. Since we are Regionals, we all serve colleagues in the selective libraries. We also serve Government officials, school children, reporters, business people, disgruntled tenants and more. We have to know our own user groups and design our product marketing efforts for them.

Product

Once we know our target market, we can decide on which product or service to market. What do we have to offer? What is our product? Is it the whole collection? Maybe it's a special subject matter or a particular agency. What about our services or our electronic access? The knowledge and abilities of the librarians and staff? What do we have that's special? What do people want or need? What will they respond to?

As we determine what we want to promote, we must make absolutely certain that we market only those services that we can do well. If we don't, we make ourselves look bad and lose credibility with our users.

Patrick O'Brien related a story in his article "Accentuate the Positive: Marketing Our Services, Marketing for Change" about a Cleveland company that was in the business of making drill bits. He said that was how they defined their company, "We manufacture drill bits." Then the technology changed and there was no longer a demand for drill bits and their business dropped dramatically. They had to change the way they thought about their business. They went from "we make drill bits," to "we make holes," and they changed their technology to keep pace with the times (O'Brien, 7). We need to decide what our business is. Do we need to redefine the way we look at it?

Price

I almost hesitate to say the word "price." I said it once in a roomful of librarians and their collective gasp almost sucked in the windows. Information is not free. We may not charge for it, but there are definitely costs involved.

We have costs associated with processing and maintaining our collection and equipment, overhead, staff time, and paper and other supplies we use for ourselves or our patrons. There are also costs to the user even when the

product is "free." Transportation, parking, and time all must be taken into consideration. It doesn't really matter what the product is worth to us. What is it worth to the user? Do they consider what we have to offer worth giving up an afternoon or evening to get? What do we have that is of value to them? Price is often a measure of quality. You get what you pay for. How can we make a "free" product or service appear valuable? Can we afford to market or maintain the product or service ourselves?

Place and Distribution

Next we need to consider how people will access our product. Will they come to us or will we send the product to them? If users must come to our library, is it convenient to get to and to use? Is it inviting? Comfortable? Clean? Are our services obvious and easy to use or will users need help identifying them? We need to consider how our library appears from the users' point of view and organize it accordingly.

Then we look at our channels of distribution. If we have phone or e-mail reference, is it convenient and easy to use? Does the service (and the technology) function well. What other means of distribution are possible?

Promotion

Communication. How are we going to make our products or services known? How are we going to get users into the library? How will we make users perceive our products and services as valuable?

When we get to this step we should know what we have and who we want to reach. Then we decide what methods we are going to use to reach each target group. We should look at what resources we have available (staff, time, money) and decide where are we going to put our energies. We also need to decide what we aren't going to do.

Evaluation

Once we have a plan in place and have begun our promotion, we need to evaluate its effectiveness and determine what worked, what didn't, and what we will continue to do or will do again. We must evaluate the cost effectiveness of the promotion in terms of time, staff, money, and equipment. Was the result worth the cost? Did we reach the intended user group? Did they get the message we wanted them to receive? What were the effects on our library as a result of the promotion?

The marketing process can take quite a bit of time, but if we take the time to do the necessary planning, our promotion efforts can be a lot more effective.

The marketing process has some similarities with the reference process and fee-based searching. When I was in library school, I worked in the Computer Assisted Research Services Office at Brigham Young University. When users came to me to do a search for them, I might spend as much as 30 minutes on the reference interview to find out exactly what they wanted before going online. If I did a thorough job with the interview, I could log in, find the information I wanted very quickly, and log out. Thirty minutes of interview for five minutes or less of online time so the cost to the user was minimal.

The same holds true for the planning process. We need to spend time on the planning stage before starting the promotion. Once the plan is in place, the time we spend in the promotional tasks may seem very short by comparison. The time and effort we put into our planning can make the difference between a very successful promotion and a mediocre one.

O'Brien, Patrick M. "Accentuate the Positive: Marketing Our Services, Marketing for

Change," *Public Library Quarterly* 12:2 (1992) pp. 3-16.

Government Information? What's That? Old Challenges in a New Landscape: Promoting Government Information

María Teresa Márquez
University of New Mexico
Albuquerque, NM

The questions in the title of my presentation reflect the reaction, usually accompanied by quizzical looks and some apprehension, that I get when I introduce myself, outside library communities, as Head of the Government Information Department at the University of New Mexico Zimmerman Library.

Mildly curious about what is Government information and what is a Federal depository library, people's interests perk up when I explain that the Federal Depository Library Program (FDLP) and its services are available through taxpayers' money, are free to the public and that the program's purpose is to inform everybody about the political, social and economic aspects of American life. This mild curiosity bears out the public's virtual unawareness of the FDLP's existence, significance and usefulness. The challenge we face, then, is to overcome the public's unawareness by promoting the program in new and exciting forums.

A key assumption of the electronic Federal Depository Library Program Transition Plan—that nearly all of the forthcoming information will be in electronic format—opens new opportunities for promoting the FDLP and Government information. Web pages and reciprocal links are new feasibilities, although trustworthy approaches like advertising, considered a bedrock of business, will continue to be used. Newsletters, flyers, and bookmarks are such examples. Moreover,

radio and television are promotional links to be more fully explored.

In this paper I present a number of suggestions for promotional campaigns. Some will be recycled ideas in new contexts, but others, I hope, will be different, challenging and effective.

Presently, a trend in the education field that finally has gained momentum is distance education. Courses offered through distance education programs offer exciting promotional opportunities. For instance, library instruction sessions can be incorporated into course requirements. These sessions could introduce the depository library program and the many resources available in Government information.

A key to successful participation in distance education programs is to manifest to professors or instructors that the service offered will facilitate their teaching and further enhance their students' success. Our department recently contacted the director of the University of New Mexico (UNM) Extended Education Services to get a list of the classes offered through interactive television. Three professors teaching distance courses were contacted because their classes were in disciplines that could use Government information for research projects. While the responses were positive, the professors were not yet ready to have us participate in their

new endeavors. Nonetheless, we will continue to press forward until such time that they feel comfortable with the usefulness of our program.

In another effort, our department met with the director of the UNM Media Technology Services Unit to discuss the feasibility of conducting a series of training workshops, through live interactive television, for librarians in the state's depository libraries.

We also considered including training sessions for other librarians. During our discussions the director was responsive and supportive as he explained his unit's operations and what we would need to do before launching such a program.

We very quickly realized that we would need to seek funding outside the library before forging ahead with our plans for the future. And looking into the future, we further realized that live interactive television and distant education programs open a possible new field for librarians and that is training librarians to conduct instruction before a live camera.

Library instruction workshops through live television can also be linked to Federally funded programs such as those sponsored under the Adult Basic Education Act established in 1964. Under this act the UNM College of Education provides professional development programs and sponsors regional and statewide conferences, among other activities, for teachers of adult learners.

Adult learners are usually eager learners and introducing them to a treasure of information would trickle down to their families as well. Teachers of adult learners would also learn about the various resources available to them for use in classroom instruction.

Another opportunity for promoting Government information would be through adult literacy activities which often function

with limited funding and could use free resources. As you know, there are numerous readers, coloring books, posters, cookbooks, and pamphlets that would be appropriate for these programs.

Programs such as talk shows on your local television stations would be other opportunities to promote your depository library and Government information. Television stations often carry programs that feature local community activities and leaders. And radio, as previously stated, still remains a largely untapped outlet. One of our local radio stations sponsors a Sunday morning program to promote the city's various cultural leaders, organizations and activities. Consult with your television and radio stations to find out which feature public service announcements and would be willing to highlight your library. Perhaps programming could be planned to celebrate National Library Week.

In the print medium, alternative newspapers are always looking for new material. Contact the editors and invite them to visit your library and demonstrate GPO Access. If your local newspapers carry an arts and culture or book section, ask the editors if they would be interested in reviews of Government publications of potential interest to their readerships. Such a publication is *The Roswell Report: Fact Versus Fiction in the New Mexico Desert*, which focuses on unidentified flying objects and sightings and encounters in New Mexico.

In the new electronic environment digital technologies offer opportunities for enhancing instruction, learning and research. The creation of services related to electronic information access and retrieval such as Web pages and reciprocal links are great promotional tools.

The Reciprocal Web Pages Work Group of GODORT's Federal Documents Task Force, at ALA Midwinter 1998, discussed efforts to

create reciprocal links with congressional delegations. Members of Congress would be invited to link up with their respective depository libraries.

The Nevada State Library and Archives is one of those libraries with reciprocal links to their state's congressional delegates. Of New Mexico's congressional members, one senator is not linked and one representative does not yet have a Web page. Senator Jeff Bingaman's office is directly linked to GPO Access via UNM's Gateway. In time, with the promotional efforts of librarians, congressional delegations will recognize the value of having reciprocal links with depository libraries.

The same promotional efforts for reciprocal Web pages can be applied to state legislators and legislative councils. Presently, four members of the New Mexico Legislature have Web pages but none are linked to our department's Web page. The same is true of the New Mexico Legislative Council whose Web page does not include a reciprocal link with any library in the state. There are plans to invite those four state legislative members and others as they establish their Web pages and the Legislative Council to connect with us.

Promoting reciprocal Web page links with other agencies and public institutions can be explored. For example, community colleges, cultural centers and their libraries, chambers of commerce, and public school districts. In Albuquerque the library of the local community college has a reciprocal Web page to UNM's General Library. So does the chamber of commerce, whose Webmaster thought the idea of linking up was a terrific source of information. The Indian Cultural Center, a strong point of interest to worldwide tourists, is considering connecting. Public school districts or individual schools, elementary and secondary, can also be invited.

One local high school, the only one approached at this time, is open to having a link. The Webmaster for Albuquerque's public

school district connected to our Web page recently. Private schools can be considered as well. Albuquerque's two major private preparatory schools are thinking of including links on their Web pages.

As more and more businesses include Web pages for their daily operations, selected enterprises can be contacted and invited to make reciprocal links. For example, businesses might need the Federal Register, the Commerce Business Daily or the Davis-Bacon Wage Determinations. Such businesses can be found in local publications like the Albuquerque Journal Business Outlook. A recent issue showed that a new firm had established an office in town. This firm, a distributor of high purity pipe, tubing and related components for the semiconductor and industrial markets, could be a possible contact.

Other possibilities for Web page reciprocal links are community centers, senior citizens centers, retirement homes and shopping malls. There is strong interest at these locations to learn about electronic information and they would welcome instruction.

E-mail is another great marketing tool. A recent brief survey conducted on GOVDOC-L indicated that a number of libraries use e-mail to do selective dissemination of information to faculty and interested persons. E-mail, along with Web pages, is used for distributing newsletters and other informational sources about new acquisitions, services and programs.

In the print world of advertising, billboards are still a useful promotional tool. Contact your local bus company and ask about the types of billboards available within your budgets. Albuquerque's bus company has special rates for nonprofit organizations. Billboards posted on the outside of the bus are more expensive than those that are inside the bus. The tail end of the bus is another affordable location for advertising.

Listing your library's number in the phone directory's blue pages is another possibility. In Albuquerque, the rates for a year would be a little over \$150.00.

Bookmarks, an old tried and true advertising tool, can be decorative and colorful or simple, depending on the needs of the library, are relatively inexpensive to produce and easy to distribute. Next time you visit your local grocery store, check with the manager, if he or she will permit the distribution of your library's bookmarks at the checkout counters. Also contact your local bank and inquire if your bookmarks can be made available at the teller's counters. Most bookstores, especially used books bookstores, are willing to post library flyers and distribute bookmarks.

Most of us, at one time or another, have wondered what to do with all those superseded CDs that accumulate in the corner of the office. These can be unusual calling cards. Include a CD in your letter of welcome, along with a bookmark and your business card, to new faculty or new community leaders. Community leaders such as the Fire Chief, Police Chief, or the new mayor would most probably notice your unusual welcome packet.

Most people enjoy receiving flowers. Welcome your new faculty with a bouquet of two or three flowers in your school's colors and your business card and you will be remembered for your thoughtfulness and creative ways of bringing attention to your library. Finally, the new electronic environment offers new possibilities and creative approaches to promoting the Federal Depository Library Program and its services.

Distributed Depository Responsibility

Maureen Harris

Clemson University
Clemson, SC

When preparing for this presentation, I re-read an earlier presentation I had made about the Shared Regional in South Carolina and I find that that presentation is still accurate in describing the origins of the Shared Regional and in touching upon some of its problems. The difference for this presentation is that I am going to attempt to explain WHY I think we have had a less than total success for the South Carolina Shared Regional.

I need to emphasize here that this is MY interpretation, that it has not been "approved" by anyone at my library or anyone else at a South Carolina depository. In addition, many of the "villains" are no longer working at South Carolina libraries so cannot defend themselves or even offer a differing interpretation. It is possible that I am dead wrong—but I don't think so. I may be wrong on some details but the main analysis is, I believe, correct.

First, a brief history of the South Carolina Shared Regional. The movers behind the program were depository librarians at several selectives, especially those with many items they wanted to dispose of. I am told that efforts were made over some years to convince the University of South Carolina (USC), the state's largest library, to become the regional but the then director was adamantly opposed to this.

A state GODORT was formed with one of its purposes being to set up a Shared Regional and this was done involving 4 different libraries, 3 to be shared regionals and the State Library acting as a sort-of "secretariat" for the plan. Since I was not then involved in

documents in South Carolina, I do not know how they convinced the libraries, especially the reluctant USC director, to participate. But note this significant fact: the push for setting up this program came from libraries other than USC or Clemson, both of which ended up as the Shared Regional after this early plan crashed.

If I had to give one reason for the less than successful Shared Regional in South Carolina it would be this: the two libraries which became the Shared Regional were not the ones most involved in setting up the program; one in fact was not only reluctant but hostile to the idea (I refer here, of course, to the library's administration, not to the documents librarians). The two libraries could be said to have little or no "ownership" in the program. And this led to the greatest problem experienced in the plan: the unwillingness of the administration of the USC library to devote any resources to their Shared Regional responsibilities.

And GPO didn't help any either, revealing another potential problem for any future Shared Regionals. GPO's distribution section began sending all regional shipments to USC, expecting them to then distribute them to the other two libraries. This didn't last long but it gave USC a legitimate gripe against GPO. It also showed a lack in GPO's organization which could be significant if other states explore the Shared Regional alternative.

Should there be additional Shared Regionals, GPO really needs to have a distribution system appropriate for that group of depositories and

there needs to be a lot of communication between the libraries and GPO about HOW shipments will be made. This "nuts and bolts" issue was overlooked at the beginning of the South Carolina Shared Regional and it almost sunk the program at its inception.

Now to return to my statement above about the USC library, what precisely do I mean? Although a regional is charged with several responsibilities including reference assistance, training and orientation and so on, what the South Carolina selectives wanted was the ability to dispose of older materials.

The state's GODORT had been quite active in training and the larger selectives had given informal reference assistance for some time so those regional responsibilities were, at least in part, taken care of without having a South Carolina regional. But the older selectives in the state had accumulated many older documents for which they no longer had a need or space.

Disposal regulations were drawn up, the two Shared Regional libraries divided up the active and the "dead" agencies, and disposals began with Clemson handling the A's. Although some of the lists were very long (Clemson's first disposal list covering E, ED, and EP was 32 pages long, single spaced—and this was after we accepted numerous titles in these areas), Clemson managed to keep up the schedule we had set. But USC, with a larger professional but smaller non-professional staff in documents, could not process the lists it received and later stopped accepting disposal lists—which meant that South Carolina selectives could not dispose of materials from many agencies.

USC was handicapped not only by staffing restrictions but by a lack of equipment. My library had numerous computers and word processing software from the beginning of the Shared Regional program—and this greatly facilitated the preparation of disposal lists—while my colleagues at USC had a typewriter

(and I'm not even sure it was electric). I remember once commiserating with Debbie Yerkes of USC who was typing (yes, typing with a typewriter) a disposal list while at Clemson we had students creating a disposal list on a computer. (I should add here that this situation has changed and USC has staff computers today.)

But my purpose is not to trash the USC library but to warn any of you contemplating creating some kind of shared arrangement to be certain that the libraries involved—especially their administrators—understand what is involved and are willing to commit needed resources to the program or you will not accomplish your goals.

In South Carolina, libraries were able to dispose of older materials for half of the agencies but that is less than they had hoped when the program began in 1986. In fairness, I must say that within the past 6 months, the situation has improved and Clemson and other libraries have been able to have disposal lists processed by USC. I hope that this will continue.

It's appropriate now to mention another lack of the South Carolina Shared Regional that might have been useful in the situation described above. There is no evaluation mechanism for the South Carolina Shared Regional; no official way to assess progress and to describe problems. There is not even any provision for an annual meeting of depository librarians although we have often had an informal annual session. The first South Carolina State Plan related only to drawing up the initial Shared Regional, the one involving 4 libraries, and when that ended, so did the State Plan. And that State Plan concentrated only on setting up the program, no one contemplating that it might not operate as described.

I am now convinced that a State Plan that includes an elected advisory council and an annual report on regional activities written by that council would be a good thing, especially

if the assessment was taken seriously and if the report was sent to library directors of the Shared Regional and all the selectives (and, of course, to GPO). This would serve as almost a "mini-inspection" where problems could be listed with the expectation that the Shared Regionals would report back to the depository advisory council about their plans for correcting shortcomings.

So what does all this say to any of you contemplating moving to some kind of a Shared Regional?

1. First, make sure that the program and its requirements are honestly described to the administration of the libraries involved. There WILL be extra work in being a Shared Regional and some provision must be made for this. If the library administration of any of the libraries is less than enthusiastic about the program—as was the case in South Carolina—you can expect problems as that administration will be reluctant to designate any resources to the program.

As I have already said, I was not in South Carolina when the South Carolina Shared Regional was set up but I can only guess that the eagerness of some depositories to dispose of materials blinded them to the dangers of depending upon a library whose administration was reluctant to enter into the program.

2. Should there be other Regionals that want to explore some kind of a Shared Regional arrangement, I believe that GPO must create a "shared regional liaison" person to answer distribution questions. (To say nothing about who gets to sit on the bus. I believe we were told "one per regional" for this meeting; so how many seats are allotted for a Shared Regional?)

Should there be numerous libraries moving toward a shared arrangement, it may be necessary for GPO to rethink its "regional

or selective" distribution system and to create a third distribution category. We have sometimes had to query GPO about how our library will be treated for a particular publication (such as dual format materials, Congressional Record, etc.) and we do not always receive consistent answers from GPO—which reflects the fact that Shared Regionals fall outside the boundaries of GPO's two distribution patterns. And this also means that, although my library is the South Carolina regional for DOE, we do get "rain checks" and "short, do not claim" for DOE titles so that we end up with a less than complete collection. (In a recent case, we failed to get a major DOE title (rain check) but a very small selective in our state did get it—I suppose we will eventually get it as a discard if GPO doesn't send it as a "rain check" item.)

3. Make sure there is some kind of evaluation procedure for the operations of a Shared Regional. And be certain that the evaluation results in a written document which is sent to GPO and to the library directors of all of the state's depositories. I think this could best be accomplished by writing it into a State Plan which would include an elected advisory committee which would actually write the evaluation but certainly other methods could be devised to accomplish this. I would also suggest that there be a provision for an annual meeting of depository librarians at which the most recent evaluation would be discussed.
4. In considering Shared Regionals, think "outside the box." In South Carolina (and I think in North Dakota which was our "model") we simply divided all regional responsibilities in half. That's certainly an acceptable way to do it but I can think of other ways to accomplish a sharing of regional responsibilities.

Perhaps a library with a large storage facility could maintain the entire retrospective collection for a state while another library—maybe one blessed with staff but not space—could receive ALL materials and later transfer many items to the "retrospective regional."

Some responsibilities such as help with loading CD's, training for Internet access, running a depository listserv might be assigned to another library depending upon interest and expertise. In South Carolina, the documents listserv is run by a selective because the librarian there had the knowledge and the interest to do it. And, as I had earlier explained, most training has been handled by the SC GODORT organization which used workshops as a way to generate revenue.

If our state writes a new State Plan, I see no reason why these tasks could not be written into the plan but continue being handled as before. Perhaps one member of the state plan advisory group could be appointed as the training liaison to the SC GODORT. This would ensure that SC GODORT would always be aware of training interests among the depository libraries.

5. Make provision for tasks or responsibilities not even considered when the regional program was set up. The two tasks that I think of are recon of older documents and assistance in using all the new electronic resources now a part of the depository program.

To my knowledge, there is no GPO requirement that older documents appear in a library's online catalog, but many libraries are adding OPAC records for their retrospective collection. My library is now considering whether we can afford to begin a recon project. A plan for a recon project could be included in a State Plan or other document setting up a Shared

Regional if the libraries concerned are willing to take on this task.

At the very least, any new Shared Regional plan should include a requirement for one member to monitor cataloging projects such as the CIC pre-1976 documents cataloging project so that all depositories in the state can be kept up to date on these developments.

Work with the new electronic sources should also be addressed, although I think this is a task that could be "assigned" in a State Plan or a Shared Regional agreement to a library other than a regional. Again, this could be decided based upon the staffing of the Shared Regionals, and the interest and knowledge of the state's depository librarians.

As mentioned earlier, in my state the more knowledgeable depository librarian for the new electronic sources is at one of the state's smaller selectives. Should SC write a State Plan, I would expect that he would figure in the plan as our "electronic guru" at least initially.

6. While it may not always be possible, I think a Shared Regional could best be planned when the librarians involved know one another and have had some experience working in the state (i.e., they know where the bodies are buried). I assumed responsibility for documents at Clemson with only two years experience in South Carolina and without having even met most of the document librarians in the state including the librarians at our other Shared Regional library, USC. I did not learn until later of the reluctance of the USC administration to take on the Shared Regional program or of some other features of that library that had an adverse impact upon the program. I like to think that I would have been more cautious in recommending participation by my library had I had more knowledge of these facts.

So am I sorry that Clemson has been one half of South Carolina's Shared Regional? I'm not sure. We have certainly expended staff time in processing disposals for South Carolina's selectives but, in turn, have been able to dispose of very little ourselves until the last few months. And we definitely receive materials that are never used in our library, some of them "problem" titles that require lots of work and/or space. (Why, oh, why don't those accursed Davis-Bacon reports get transferred to the Internet?) Our library has fallen upon hard times in the past year and withdrawing from the Shared Regional has been suggested as one means of coping with our diminishing resources. But being part of a Shared Regional definitely fits with Clemson's mission as South Carolina's land grant school and I believe our dean is unlikely to want to face the wrath of his fellow depository directors when they learn that the program allowing them to dispose of documents has ended. (I am assuming here that Clemson's withdrawal would mean there would be no Regional in SC.)

My prediction, then, is that the South Carolina Shared Regional will continue but I hope that it can be improved by the drafting and signing of a State Plan by all the library directors concerned—a State Plan that would address the issues I have raised here. As I mentioned at the beginning, South Carolina is now operating under its second Shared Regional plan, the first one having been a dreadful fiasco from which Sheila McGarr rescued us (but that's another story). Maybe it's now time for the third South Carolina Shared Regional—the one of which it can be said "third time's the charm."

30 Years of Distributed Depository Responsibility

Nancy Mulhern

University of North Dakota
Grand Forks, ND

In June 1968, the Government Printing Office approved the creation of the first joint regional depository library. The University of North Dakota (UND), Chester Fritz Library and the North Dakota State University (NDSU) Library have for the last thirty years shared the responsibility of providing Government publications to the state of North Dakota.

Chester Fritz Library and the North Dakota State University Library Directors wrote to the Government Printing Office, "We have investigated the implications of this proposal and believe that it will prove to be in the best interests of the two Universities and the State of North Dakota." From its inception in North Dakota, the shared regional depository has shown itself to be an effective organizational model.

Over the course of 30 years, as Government information expanded exponentially, it became increasingly difficult for depositories to meet the Government information demands of a varied population. The joint regional depository structure of shared responsibility can serve to lighten the burden. It has allowed this sparsely populated state to develop a comprehensive collection of Government information, with an effective delivery system. NDSU and UND have been able to fulfill this major function of regional depository libraries as well as serve the needs of their respective campuses.

A committee representing both institutions negotiated the division of the depository materials. Depository responsibilities were divided by letter, taking into consideration the

curriculum strengths of the two campuses. Where disciplines overlapped, the committee negotiated the division. Both institutions have strong teacher education programs that would utilize the Department of Education documents. North Dakota State University retained responsibility for the E's. The University of North Dakota in turn selected approximately 40% of the E's to serve the needs of the University. Each institution selects materials that are appropriate to the mission of the library, their primary clientele, and local community. A reasonable amount of overlap occurs.

When curricular strengths change, the division of the letters is renegotiated. The establishment of the Center for Aerospace Sciences at the University of North Dakota was followed by the transfer of the letter N, with its thousands of NASA publications, to the Chester Fritz Library.

Each institution retains responsibility for: bibliographic instruction, outreach, technical processing, equipment and maintenance for their respective letters.

The shared regional depository library model has strengths, as well as weaknesses. Conserving available shelf space was a major concern for both libraries at the onset of this arrangement. However, over the past 30 years, that advantage has largely disappeared.

By only having half of the documents, the respective institutions have become more expert in their use. The completeness of the collection is assured by each partner offering

the other the overlapping publications that are withdrawn after 5 years.

The two regional librarians share the oversight of the 7 selective libraries. The two librarians can easily arrange on site visits to the selective libraries in the state. The document community in North Dakota is small, but covers a wide geographic area. For the most part, the librarians at the selective libraries are seasoned veterans of state as well as Federal documents. Document librarians meet through the Government Documents Roundtable section of the North Dakota Library Association.

The advances in technology have also bolstered the effectiveness of the shared regional model. NDSU maintains a listserv for North Dakota Government document librarians. Both institutions have developed Web pages with links to one another and to the wider world of documents. In 1993, UND added the 1976+ documents to their online catalog, which significantly increased accessibility of documents to patrons from across the state.

There are drawbacks to being a shared regional depository. Shared regionals are sometimes treated like selectives when claiming items. In addition, it is occasionally difficult for patrons to identify which institution has a needed document. This last problem has been addressed in two ways.

In 1992, UND and NDSU established a daily shuttle bus to transfer documents and Interlibrary Loan materials between campuses. This has provided patrons with a seamless method of rapidly retrieving documents from either institution.

The state of North Dakota expects to implement a new online system by the year 2001. At that time, NDSU and UND will use the same online system. This will further facilitate document access to residents of North Dakota.

Chester Fritz Library and Distributed Responsibility

At the University of North Dakota, depository documents are part of the Documents, Patents, Trademarks and Periodical Department. UND has been a Patent and Trademark Depository Library since 1990. Technical service, as well as public service for documents, periodicals, microforms, software and media kits are the responsibility of this department. The department is staffed by one librarian, six library associates and 30 student employees. Departmental student employees are cross trained in the use of periodicals and government documents. The wide range of activities in this department has necessitated distributing document responsibilities to other departments in Chester Fritz Library.

The reference and research services librarians respond to the majority of the reference questions concerning documents. All reference librarians are trained to respond to the questions concerning Government documents. The bibliographic instruction librarian coordinates the instruction on the use of Government documents, as well as the creation of pathfinders and guides.

Promotion and outreach are a joint effort of the Reference and Research Services staff and the Documents staff. The electronic services librarian maintains a core number of document CD-ROM's on workstations in the Reference and Research Services Department. In the summer of 1998, a GIS workstation will be placed in the Reference and Research Services area.

Document responsibility has been further distributed by selectively housing Government documents in three campus libraries. The Harley French Library of the Health Sciences, Thormsgaard Law Library and the Geology Library house a significant number of documents. Annually each library is encouraged to select or deselect items.

These housing agreements benefit the Chester Fritz Library as well as the University. The documents are placed in the library where they will have optimum use and greater accessibility. The University of North Dakota Geology Library selectively houses thousands of United States Geological Survey publications and topographic maps.

Selective housing enhances the capability of these libraries to develop collections of greater depth. The selective libraries assume responsibility for the cataloging, binding and maintenance of the selected documents. Promotion, bibliographic instruction and reference for these materials also become the responsibility of the selective library.

The judicious use of selective housing agreements has served to alleviate some concern over space in the Chester Fritz Library, as well as heightened the accessibility of documents on the University of North Dakota campus.

Distributed depository responsibility has been a reality, a necessity, as well as a successful organizational structure that has been a benefit to the citizens of North Dakota. North Dakota's joint regional depository library celebrates its thirtieth anniversary and looks forward to the next century.

Distributed Regional Responsibility: Tennessee's Shared Regional Holdings Arrangement

Ann Marie Sanders
Library of Michigan
Lansing, MI

The establishment of the University of Memphis as Tennessee's regional depository in 1989 presented some unique challenges in establishing a regional collection for the state. Tennessee's depositories had never been served by a regional, and collectively held over a hundred years of material in collections that had never been weeded in any way. Other than through the Government Documents Organization of Tennessee, a unit of the Tennessee Library Association, there were few avenues for formal communication between depositories. A shared holdings arrangement in which seven institutions share the responsibility for the pre-1989 regional collection has proven a creative and effective solution to these challenges.

Tennessee Depositories

Tennessee has twenty-four selective depository libraries. Fifteen of these are academic libraries, four are public libraries, three are law libraries affiliated with university law schools, and the Tennessee State Library and Archives is also a selective depository. One Federal agency library, located at the Tennessee Valley Authority in Chattanooga, is a small selective depository but is excluded from the procedures discussed here as its disposal procedures are coordinated through the Library of Congress.

Tennessee's selective libraries range widely in age. The oldest depository is at the University of the South in Sewanee (1873) and the youngest is the Law Library of the University of

Memphis (1979). The Tennessee Valley Authority library is the smallest, selecting four percent of the available items, while the largest, the University of Tennessee-Knoxville, selects seventy-eight percent. The average age is fifty-three years, and size is twenty-eight percent.

The University of Memphis was a large selective depository (60-80%) and known as Memphis State University when it sought regional designation in 1989. The library was a relatively young depository, established by representative designation in 1966, but had exercised every opportunity to build its collection retrospectively in areas of important and standard series. Its major obstacle to regional designation was space; the anticipated discards of twenty-two depositories could not be housed in the library, although a new library was in the planning stages.

A Shared Holdings Arrangement

The University of Memphis staff sought partners in the summer of 1990 in five institutions: Vanderbilt University, the Memphis/Shelby County Public Library and Information Center, East Tennessee State University, the Tennessee State Library and Archives, and the University of Tennessee-Knoxville. These institutions were sought as some of the largest and oldest collections, along with those with specialized, long runs of material, and it was hoped that these institutions could and would house the regional collections of these materials. After

an initial positive response from these five institutions, an open letter was sent to all Tennessee depositories seeking any additional partners. Tennessee Technological University joined the partnership in September of 1990, and representatives met to plan the initial “adoption” of specific agencies that each institution would take responsibility for. Agencies were selected or suggested based upon existing collection strengths, the curricula of the academic institutions involved, and, to some extent, the geography of the state.

Each institution signed a Memorandum of Agreement with the University of Memphis to solicit and maintain pre-1989 material in appropriate agencies. The University of Memphis “reserved” certain agencies or classes to remain with the post-1989 regional collection. The group of institutional representatives also established a semi-annual schedule for depositories to weed. The specific agencies or classes chosen by each institution follows:

Partner institution and description	Agencies housed
Vanderbilt University (est. 1884, large academic, 58% selective)	Department of State Executive Office of the President President All hearings Some major serials, including: <i>Official Gazette, Congressional Globe and Record, Scientific and Technical Aerospace Reports, Energy Research Abstracts</i>
Memphis/Shelby County Public Library (est. 1896, large public, 45% selective)	Department of Labor Smithsonian Institution Small Business Administration
East Tennessee State University (est. 1942, medium academic, 60% selective)	Bureau of Mines (and predecessors) Environmental Protection Agency Mining Enforcement & Safety Administration Mine Safety and Health Administration Appalachian Regional Commission
Tennessee State Library and Archives (est. unknown, state library, 51% selective)	Department of Interior (with exceptions) Library of Congress War Department
University of Tennessee-Knoxville (est. 1907, large academic, 78% selective)	Department of Agriculture Bureau of the Census Department of Transportation Congress (Y 1.'s) All maps
Tennessee Technological University (est. 1969, medium academic, 47% selective)	Fish and Wildlife Service (and predecessors) All independent Councils, Commissions, and Boards (Y 3.'s) (with some exceptions)

The Process

Withdrawing libraries are required to list publications in SuDocs classification order when each agency is called for in the schedule. The list must include title, format, dates, and linear measurements or number of volumes when appropriate. Libraries must also indicate if volumes are bound. Libraries are not limited in the size of their lists, and may photocopy shelflist cards instead of listing if they so choose. The lists are sent to the appropriate institution and the regional simultaneously if pre-1989 material appears on the list. Within the shared holdings institutions, some libraries have indicated if they would also like to review lists in a particular class, after the responsible library and the regional have made selections.

Lists are marked with requests and returned to the withdrawing libraries. Either the shared holdings library or the regional may require shelflist cards for selected publications, if they desire. Boxes must be packed in SuDocs classification order (indicated on the box) and postage is the responsibility of the withdrawing library.

Problems

The initial rounds of weeding and discarding were not completely uneventful. Several shared holdings libraries found they were spending far more time checking lists than creating lists of their own, and adjustments were made in the weeding schedule. The need to mark documents received under the arrangement as regional copies was also noted, and libraries receiving lists of large sets (such as hearings) often found themselves in receipt of multiple copies of the same publications. A minor, but heartfelt problem arose when discarding libraries packed discards in very large boxes that were unmanageable at their destination.

The largest problem encountered during this period became the adoption of the many

miscellaneous agencies that had yet to be claimed. The shared holdings representatives met twice to assign additional agencies, but it was clearly becoming difficult to find homes for some of the more esoteric groups of documents. (At one meeting, a representative suggested adopting regional responsibility for the Peace Corps because their ex-spouse had been a member!) The problem was finally resolved by the completion of a new library and acquisition of remote storage in the old building at the University of Memphis in 1994.

Comments

The staff of the University of Memphis have observed an approximately even split of selective libraries among those that weed regularly, weed occasionally, or never weed collections under the new arrangement. The experience is generally characterized as one of "remarkable cooperation." Shared holdings libraries have found that while the arrangement has generated a great deal of work, any disadvantages have been outweighed by both the increased opportunity to weed their collections while allowing the creation of superior collections that complement existing subject strengths.

Selective depositories that are not shared holdings libraries have found the greatest benefit in having the opportunity to weed at all. They have also found that the turn-around time required to dispose of unneeded material has been reduced, since the workload is shared among seven libraries. In addition, several librarians have commented that public service is improved because they "automatically" know other libraries' collection strengths.

Few Tennessee documents librarians had experienced the benefits of a regional prior to 1989. The shared holdings program, coupled with technological solutions such as a statewide listserv, have provided mutually beneficial opportunities for communication and networking.

The Federal Bulletin Board Helpful Hints in Its Use

Catrena Hairston
U.S. Government Printing Office
Washington, DC

James M. Mauldin
U.S. Government Printing Office
Washington, DC

About the FBBS

- Accessible via: Telnet, FTP, WWW, or Modem
- Provides immediate, self-service access to Federal electronic information. Participating Federal agencies add files remotely, ensuring that their latest official information is available.
- Offers single files in a variety of formats
- A component of GPO Access, it existed prior to the 1993 law (P.L. 103-40). Senate report 103-27 incorporated it into GPO Access.

Background & History

- 1989 Started under Project HERMES: Supreme Court opinions placed online
- 1992 Reworked to deliver files for fee via the Federal Bulletin Board. Files were priced based on file size. All users needed a password, and account approval.
- 12/95 All GPO Access products were made free to the public. Nov 1995, Internet access offered.

5/96 FBBS made available via the Web

Features

- Some agencies use it to meet Americans with Disabilities Act (ADA) requirements. (Example, MSPB Summaries)
- Provides modem access to all levels - supports speeds of 300 - 33,600 BPS
- Internet - FTP, Telnet, WWW
- Supports GPO Access with source files, sample questions and helpful hints
- Quick way to make information available via the Web; can also be a secure way
- Alternative way to meet employee needs - e.g., forwarding e-mail; file sharing

Who Uses the FBBS?

Organizations and/or individuals who:

- Do not need (or do not have) real-time connectivity to the Internet (or a modem).
- Need a quick, inexpensive way to deliver (or retrieve) a single, downloadable file
- Want e-mail capability

- Download files and exchange/or post messages

FBBS Customers

- General Public
- Federal Depository Libraries
Shipping Lists, List of Classes, Profiles Database
- GPO Internal Customers
Library Programs Service (LPS)
- Client Agencies:
Merit Systems Protection Board (MSPB)
Office of Foreign Assets Control (OFAC)
Environmental Protection Agency (EPA)

Top 15 File Libraries, FY 1998

Agency or POC	Library	Total
GPO/LPS	shiplist	14,508
MSPB	mspbfree	10,740
MSPB	mspb_97	10,571
OGE	oge_daeo	3,180
MSPB	mspb_dec	2,598
MSPB	mspb_96	2,540
GPO/LPS	mfich97	2,477
FLRA	flra_syn	2,337
FLRA	flra_dec	2,239
GPO/LP	shipl97	2,132
GPO/LPS	paper	2,103
GPO/HCFEA	hcfa_fr	1,990
GPO/EPA	40_cfr	1,921
FLRA	recent	1,753
GPO/LPS	class	1,675

Helpful Hints

- Contact the SYSOP with problems with the system - connecting, downloading, etc.
- Contact the agency representative or library operator with questions or problems or questions about file content

- Refer to available online guides about adding helpers, readers, etc., to Web browsers

- New software version offers an online keyword search capability

Access to the FBBS

Dial-up: (202) 512-1398 – Settings: 8, N, 1
 Telnet: fedbbs.access.gpo.gov
 FTP: fedbbs.access.gpo.gov
 WWW: http://fedbbs.access.gpo.gov

User Support

- GPO Access User Support Team:
Local: (202) 512-1530
Toll-free: (888) 293-6498
Fax: (202) 512-1262

E-mail: gpoaccess@gpo.gov

Hours: 7 a.m. – 5 p.m., Monday-Friday, excluding all Federal holidays

Summary

- A component of GPO Access (Public Law 103-40)
- Existed since 1990 (prior to GPO Access)
- Systems Operator (SYSOP) - Catrena Hairston, (202) 512-1607
E-mail: chairston@gpo.gov
- LPS Library Operator - James Mauldin, (202) 512-1698
E-mail: jmauldin@gpo.gov
- User Support - Provided by the GPO Access User Support Team
E-mail: gpoaccess@gpo.gov
Toll-free: (888) 293-6498
Local: (202) 512-1530

Daily Treasury Statements via the Federal Bulletin Board System

James M. Mauldin
U.S. Government Printing Office
Washington, DC

The Daily Treasury Statements (DTS) summarize the financial activities of the Federal Government and off-budget Federal entities in accordance with the Budget of the U.S. Government. The DTS are now available via the Federal Bulletin Board.

Features and Benefits

Daily Treasury Statements are available in PDF and ASCII text format. The Daily Treasury Statements are uploaded daily except for weekends and holidays. The electronic version of the DTS is available three days after its printed paper counterpart. The visual display of the PDF version of the DTS is identical to its printed counterpart.

Electronic Access via the Web, FTP, Telnet, and Dial-up Uploaded Daily

Access

- **WWW:**
<http://fedbbs.access.gpo.gov/dailys.htm>
Hints for downloading:
 - Single click on the desired file
 - Select desired folder location to import the downloaded file
- **FTP:** fedbbs.access.gpo.gov
Hints for downloading:
 - Single click on the desired file
 - Select desired folder location to import the downloaded file

- **Telnet:** fedbbs.access.gpo.gov
Hints for downloading:
 - Space bar – tags the desired file
 - Ctrl-D – downloads the file
- **Dial-up:** (202) 512-1387
Settings: 8, N, 1
Hints for downloading:
 - Space bar – tags the desired file
 - Ctrl-D – downloads the file

Contacts

- James Mauldin (Publications Management Specialist)
Library Programs Service (SLLA)
U.S. Government Printing Office
Washington, DC 20401
(202) 512-1698
jmauldin@gpo.gov
- Nick Ellis (Publications Management Specialist)
Library Programs Service (SLLA)
U.S. Government Printing Office
Washington, DC 20401
(202) 512-1071
nellis@gpo.gov
- Catrena Hairston (Management Analyst)
Electronic Information Dissemination Service (SDE)
U.S. Government Printing Office
Washington, DC 20401
(202) 512-1607
postmaster@gpo.gov

Electronic Shipping Lists

James M. Mauldin

U.S. Government Printing Office
Washington, DC

The Federal Depository Library Program offers electronic versions of depository shipping lists via the Federal Bulletin Board.

The electronic shipping lists provide a mechanism for identifying past and forthcoming depository shipments made to the Federal depository libraries. Shipping lists are uploaded twice weekly. These shipping list files can be imported and exported from spreadsheets and databases.

Features: Downloadable DBF files of all formats of depository shipping lists including maps

Benefits: Timeliness, importability, enhanced shipping list capabilities

Electronic Access via the Web, FTP, Telnet, and Dial-Up

Uploaded Twice Weekly: Wednesday and Friday

Access

- **WWW:**
<http://fedbbs.access.gpo.gov/fdip01.htm>
Hints for downloading:
 - Single click on the desired file
 - Select desired folder location to import the downloaded file
- **FTP:** fedbbs.access.gpo.gov/shiplist
Hints for downloading:
 - Single click on the desired file
 - Select desired folder location to import the downloaded file

- **Telnet:** fedbbs.access.gpo.gov
Hints for downloading:
 - Space bar – tags the desired file
 - Ctrl-D – downloads the file
- **Dial-up:** (202) 512-1387
Settings: 8, N, 1
Hints for downloading:
 - Space bar – tags the desired file
 - Ctrl-D – downloads the file

Hints for importing a shipping list file:

- 1) Launch any spreadsheet or database
- 2) Select Open file feature, then choose location of the shipping list file
- 3) Then select Open.

Contacts

- James Mauldin (Publications Management Specialist)
Library Programs Service (SLLA)
U.S. Government Printing Office
Washington, DC 20401
(202) 512-1698
jmauldin@gpo.gov
- Catrena Hairston (Management Analyst)
Electronic Information Dissemination Service (SDE)
U.S. Government Printing Office
Washington, DC 20401
(202) 512-1607
postmaster@gpo.gov

Enhancements/Partnerships

Enhanced shipping list services provided in partnership with the State University of New York-Buffalo, the University of Texas-Arlington, and GPO, include:

- Searchable Database of Shipping Lists (HTML)
- SuDocs Label Generating Program

Available from:

www.access.gpo.gov/su_docs/dpos/shipping.html

Writing the Depository Self-Study

Gail Snider

U.S. Government Printing Office
Washington, DC

Stephen Henson

Louisiana Tech University
Ruston, LA

1. Background

A recommendation from the spring 1994 meeting of the Depository Library Council suggested the Library Programs Service (LPS) reexamine the depository inspection process. As part of this review, LPS developed a draft of a self-study to be used by depository libraries. Throughout 1995 and 1996, LPS asked libraries scheduled for inspection to complete the self-study report voluntarily. As part of the “Federal Depository Library Program Information Dissemination and Access Strategic Plan, FY 1996 – FY 2001,” LPS modified the focus of the inspection program. Under the re-directed program, inspectors would visit those libraries that satisfy at least one of four criteria:

- The library did not meet depository standards established by GPO;
- The library had never been inspected;
- The library requested a site-visit from an inspector; or
- The library reported exemplary services or accomplishments, including a new building.

In June 1996, LPS adopted the self-study instrument as an evaluation tool for use by depository libraries. Each depository library will submit a mandatory self-study report to

LPS, which will determine the libraries that will be inspected. The basis for inspections is specified in 44 U.S.C. §1909, which states that “the Superintendent of Documents shall make firsthand investigation of conditions [in depository libraries] for *which need is indicated*” [emphasis added]. In September 1996, LPS issued the Federal Depository Library Manual Supplement 3: Self-Study of a Federal Depository Library. A slightly revised version of this manual is available on the FDLP Administration Web site at: <www.access.gpo.gov/su_docs/dpos/selfstud.html> ; the Web version is the official text of the self-study template and supersedes the printed manual.

In the preface to Supplement 3, LPS gives two primary purposes for the self-study. The first is to give the documents librarian as well as the library administration an opportunity to assess the library’s compliance with Title 44, Chapter 19, and other GPO regulations in advance of an inspection visit to determine the library’s compliance with Title 44, Chapter 19, and other GPO regulations.

Secondly, the self-study report can help the documents staff and library administration determine how the library is addressing issues such as the collection development policy for documents, the library’s compliance with ADA standards, and public access to depository material in print and electronic forms.

Another use of the self-study can be to inform and educate library administrators, trustees, city officials, or college administrators about depository needs.

The library can do a self-study at any time, not just when requested by GPO. The self-study report can also be used for library or other institution accreditation.

The depository self-study is now an integral part of the inspection process. Each year, LPS requests self-study reports from a group of depository libraries based on the date of the last on-site inspection. In writing the self-study, librarians are faced with the challenging task of describing on paper the depository operation in a library.

2. Time Line for the Self-Study and Inspection

The following time line gives the approximate sequence of the self-study and inspection process.

- a. Immediate action. The documents librarian should begin gathering documentation and drafting answers to the self-study.
- b. 6 months before the due date. Informal notification and announcements at professional meetings and in Administrative Notes of depository libraries that will be required to submit a self-study to GPO in the upcoming inspection – self-study cycle.
- c. 3 months before the due date. LPS formally notifies libraries via a letter to the documents librarian and library director to submit a self-study report.
- d. 3 weeks before the due date. The documents librarian should finish drafting answers and begin editing the self-study report.
- e. 2 weeks before the due date. The documents librarian should finish editing the report and the library administrator should sign it.
- f. 1 week before the due date. Documents librarian should mail the self-study report and addenda.
- g. Due date set by LPS. GPO notifies libraries if a self-study was not received from them.
- h. Self-studies are grouped by state and then reviewed during the following 3-month period by library inspectors.
- i. 6 weeks before an on-site inspection. Depository library candidates for inspection and their Regional are notified and inspection dates set.
- j. 4 weeks before an on-site inspection. The depository operation being inspected and the Regional librarian will receive a report titled “Self-Study Evaluation: Summary of Findings and Recommendations” with a confirmation letter and a copy of the pamphlet “How to Prepare for a Library Inspection.”
- k. 4 weeks before on-site inspections of depositories to 8 weeks after. Documents coordinators and directors of depository libraries not being inspected in that state and their Regional Librarian receive a report titled “Self-Study Evaluation: Summary of Findings and Recommendations” and a letter confirming they have passed GPO’s inspection process based on their self-study.
- l. 6 to 8 weeks after an on-site inspection. Documents coordinator, library director, and the Regional librarian will receive a copy of the report titled “Inspection Report:

Summary of Findings and Recommendations” based on the on-site inspection.

3. Preparation

Generally LPS staff will give the documents librarian three months’ notice to prepare the self-study. In the typical depository library, the documents librarian will find that the initial self-study report will take longer than three months to complete. Depending on changes in the self-study format and the library, later self-studies may be completed faster.

a. Gather Documentation

Before writing the self-study, the documents coordinator should gather documents that relate to the depository operation.

- Previous inspection reports. If the depository has been inspected previously, these will indicate weaknesses as well as strengths previous inspectors have identified. If previous inspection reports are missing from the depository’s files, contact the Regional or LPS.
- Departmental or library annual reports. These can provide previously stated goals and list accomplishments. Annual reports may also include statistics.
- The library’s collection development policy for Federal Government documents. This important document should indicate which subject areas the library collects and provide a rationale for those decisions. Information about writing or revising the documents collection development policy is presented in the Federal Depository Library Manual Supplement: Collection Development Guidelines for Selective

Federal Depository Libraries (September 1994), <www.access.gpo.gov/su_docs/dpos/coldev.html>.

- Policy and procedures manuals related to the depository operation.
- The library strategic plan. This should describe the role of the depository collection in the larger context of the library as a whole.
- Other institutional documents as library collection development policies or other publications that influence the documents collection.

b. Notify Appropriate Stakeholders

Communication with appropriate stakeholders is an important key to writing a good self-study.

- The library administration. Communicate with the library’s administration about the importance and implications of the self-study. Explain the procedure for the self-study. Enlist the administrator’s support in the process. Explain that writing the self-study may take time away from other activities.
- The documents support staff. These individuals can contribute valuable knowledge to the self-study process. The support staff may be able to write some sections of the self-study.
- The Regional/s. GPO will notify the Regionals about which libraries under their purview must turn in a self-study. The Regional may have a workshop on writing the self-study.
- Geographically proximate depositories. Generally LPS will request self-studies from most or all depositories in a state

at the same time. Neighboring depositories can provide collaborative assistance in writing the self-study. E-mail is a good way for depositories to communicate about the self-study.

c. Set Deadlines and Meet Them

The prudent librarian will allow plenty of time to do the self-study. The report will take longer than a week to write. Early in the drafting phase of the self-study, set a completion date that is at least 2 weeks before the report is due to LPS. After completing the draft of the report, set it aside for a few days, then re-read it for omissions and inconsistencies. Try reading it from the viewpoint of someone who is not familiar with the library's depository operation or the depository staff. If possible, ask someone outside the library to read the report.

d. Check Computer Equipment

Writing the self-study report is a major investment of time and energy for the documents librarian. Before writing the answers, the documents librarian should download the text of the current self-study questions from the FDLP Administration Web site. If computer equipment does not meet minimal technical standards, the depository may not be able to download it. Then the Regional can furnish a copy of the current self-study. Discard older versions of the template to avoid confusion. Be certain to have a secure copy of the report so no one, either library users or staff, can type over or inadvertently erase an only copy.

4. Writing the Self-Study

The process of writing the self-study calls on the skills of technical writing: the process of creating, designing, and transmitting technical information so that people can understand it easily and use it appropriately (Markel, p. 2).

While all of us write policies, procedures, training manuals, and even self-studies, few of us have had formal training in technical writing. Most of us learned by doing and by making mistakes along the way. For those depository librarians faced with writing the self-study, we have some suggestions that we think will both facilitate the process for the librarian and improve the readability of the self-study report.

a. Format

The structure of the report is important. By deciding in advance how the report will be laid out, the documents librarian can save time later. The finished report should include the questions with the answers inserted. This format is easy to do using word processing software

Decide in advance on several factors:

- Font. A very small (8 point or less) or very large (14 point or greater) font size is not appropriate. The smaller font is difficult to read while the large font makes the report larger than need be. A font of the same size as the template (12 point) is ideal.
- White space. Create a visual difference between the questions and the answers on the self-study report. Double space between the question and the answer to provide white space.
- Value. Another way to differentiate between the questions and answers is through the use of bold, italic, or regular type. Consider using bold or italic type for the questions and regular type for the answers.

b. Audience

Defining the audience will help shape the report. Consider the audience for the self-

study report:

- The GPO inspection team. They will evaluate your report and determine if further information or action is needed. Because each inspector has worked in a depository library, he or she is familiar with the best practices of depository management. The inspectors will recognize poor management techniques as well as attempts to obfuscate. In addition, the inspectors are reading dozens of self-study reports each year. The documents librarian should have some compassion on the inspectors and make the self-study as easy to understand as possible.

The self-study supplants the on-site inspection report for many depository libraries and will serve as a record of depository operations for that time period. It will go in the depository's files at GPO and its Regional library and be a main reference tool for information on that library.

- Library administrators and officials. Administrators, library's board members, college or university officials, or others who use this and other similar reports from institutions as a measurement of where their institution is at the time.
- Documents department staff. The self-study report creates a snapshot of the department. The self-study can be a tool for learning about the department and refreshing knowledge about GPO requirements. Each question has been included in the self-study for a reason. The writer may want to ask, "Why is this question here?" "Where is this topic addressed in depository literature?" before answering it.

c. Writing Style

A well-written self-study will be clear, concise, and consistent.

- Clear. The reader must be able to understand the answers presented in the report; therefore, the writer should present an answer that is clear, logical, and unambiguous. Answers written in the active voice tend to be clearer than those in the passive. Where possible, write the answers in the active voice. Local acronyms and terms can confuse the reader. Explain any acronyms or local terms to avoid confusion.
- Concise. The writer often has a difficult time knowing how much detail to include in an answer. A concise answer to a question on the self-study will be long enough to include all relevant material without floundering in details. Depending on the circumstances, a concise answer may be as short as a couple of sentences or as long as a couple of pages. The length of the answer is not as important as the completeness of the answer.
- Consistent. The writer (the documents librarian) should help the reader (the GPO inspector) to understand the report by presenting the material in an appropriate and predictable manner. Put the report away for a couple of days, then read through it again looking for inadvertent inconsistencies.

d. Finishing Touches

After all the hard work that goes into writing the self-study, the documents librarian will want to present the results in a professional-looking format.

- Cover page. The report should have a

cover page following the self-study template. It should include the library and institution's name, location, zip code, depository and U.S. Congressional district numbers, the names of the library director and documents librarian, phone and fax numbers, e-mail address, and the date the self-study was submitted.

- The date it was written should be someplace on the report.
- Contents page. The contents page should list the major sections of the self-study. A well-organized contents page can help the inspection team understand the scope and organization of the self-study. In addition, the contents page can serve as a checklist to remind the documents librarian to include all relevant parts of the self-study. The complete self-study package should include the following parts:
 - Cover sheet
 - Contents page
 - Text of the report
 - Addenda (as described in the following section)
 - Staple the report. An elaborate binder is not necessary and takes up limited file space at LPS. The addenda can be paper clipped or stapled to the main body of the report.
 - The average self-study is 20-25 pages, with an additional 10 pages of addenda. However, the larger and more complex the depository operation in a library, and the more changes that must be described, the longer and more complicated the self-

study report will be.

- Make 3 copies of the finished report. Send one to LPS, one to the Regional, and keep one in the files. Make sure a copy is sent to the Regional as well as GPO at the same time.
- Allow at least one week for mail or package delivery.

5. Suggested Addenda to the Self-Study

There are several items that should be attached as addenda to the self-study report. The text of the self-study asks the librarian to include 6 specific documents:

- The written collection development policy for Government documents (Section 1, Question 5).
- The library's access policy for users of depository material (Section VI, Question 1).
- The procedures manual for processing documents (Section II, Question 5).
- The binding policy for documents (Section III, Question 1).
- The replacement policy for documents (Section III, Question 2).
- Selective housing agreements, if any.

Other attachments are optional but often helpful:

- a map of the library with locations of the documents service points, offices, and other items mentioned in the self-study.
- An organization chart of the library showing the position of the documents librarian in the library administration.

- Annual reports for the documents department. Three years of annual reports are usually sufficient.
- Position descriptions for the documents librarian/s and staff who process depository material.
- Other documents and material that will help the inspection team understand the self-study.

6. Common errors

The inspection team has identified several problems that the careful writer will want to avoid.

- a. Incomplete answers. Writers often do not include enough information in the answers. Each answer should provide all relevant information that the inspection team needs to understand the situation.
- b. Misleading information. Writers sometimes give a misleading answer because they have not read what they have written carefully, do not understand the question, or do not fully explain terms, as acronyms or local language.
- c. Overlooked or ignored questions. The documents librarian must answer each question in the self-study or explain why the question is not applicable to the library's situation. Check the completed report to be certain that no questions were overlooked.
- d. Answering questions with "yes" or "no" without an explanation. The answers to most yes/no questions should include an explanation. For some a sentence will suffice, others will need several paragraphs.
- e. Specifically troublesome questions

have been:

- Section I, Question 1, identifying titles from the "Basic Collection" that are available in the depository. Each title can usually be answered with a check if received. If not received, or received in an electronic or commercial version, this should be noted.
- Section I, Question 8, identifying current indexes. The librarian should mark only those titles the library currently purchases. Electronic equivalents should be noted. Do not mark items received at a nearby depository.
- Section II, Question 1, describing recording items to the piece level. Each format should be addressed. Actual procedures do not need to be included as much as a description of how each format is handled. Include a description of what information is available on the check-in record. Many depositories have over time used a variety of techniques (card files, computer databases, or online check-in) to record depository receipts. Be certain to describe each component in the library's holdings record.

Summary

While challenging, writing the self-study can be a valuable experience for the documents librarian. The self-study process gives the library an opportunity to closely examine all aspects of the depository operation in a library at the depository coordinator's pace and from his or her vantage point. The self-study will identify weak areas where the library can improve services. At the same time, the report will identify areas of strength where the library should continue to offer optimum services. After completing the self-study report, the depository library will have a baseline of

knowledge the depository staff has created on which administrators and librarians can take steps to improve the delivery of Government information to library users.

Snider, Gail, "Self-Study: Review and Follow-Up," *Administrative Notes*, v. 18, no. 8 (May 15, 1997), pp. 31-34.
www.access.gpo.gov/su_docs/dpos/ad051597.html

Citations

The article by Henson cited below includes suggestions on writing the self-study. In addition, most libraries will have books on technical writing. These books may include other suggestions that will be useful in writing the depository self-study.

"Exhibit 1: Federal Depository Library Program: Information Dissemination and Access Strategic Plan, FY 1996-FY 2001," Report to the Congress, Study to Identify Measures Necessary for a Successful Transition to a More Electronic Federal Depository Library Program (June 1996). GP 3.2:EL 2/3/FINAL, pp. E10-E11.

Federal Depository Library Manual Supplement 3: Self-Study of a Federal Depository Library (September 1996). GP 3.29:D 44/993/supp. 3
www.access.gpo.gov/su_docs/dpos/selfstud.html

Henson, Stephen, "Readers Exchange: Hints on Writing the GPO Self-Study," *Administrative Notes*, v. 18, no. 14 (November 15, 1997), pp. 9-12.
www.access.gpo.gov/su_docs/dpos/ad111597.html

McGarr, Sheila M., "Self-Study of a Depository Library: Progress Report," *Administrative Notes*, v. 18, no. 8 (May 15, 1997), pp. 27-30.
www.access.gpo.gov/su_docs/dpos/ad051597.html

Markel, Mike. *Technical Communication: Situations and Strategies*. 4th ed. New York: St. Martin's Press, 1996.

Instructing the Undergraduate in Government Information

Elizabeth A. Estes
Valparaiso University
Valparaiso, IN

Cheryl B. Truesdell
Indiana University-Purdue University, Ft. Wayne
Ft. Wayne, IN

Today's presentation is not just for undergraduates. Anyone who is unfamiliar with libraries, especially your library, will benefit from these tips. We will cover many different topics, including teaching methods and how to present paper and electronic Government information effectively.

The first element of an instruction session is choosing an appropriate teaching method. Four of the basic methods are lecture, hands-on/demonstration, students teach, and a combination of these. Deciding which one is best for you depends on circumstances such as class size, media you are teaching, and the number of students in attendance.

Everyone has sat through a lecture before. As a matter of fact, many of us experienced this method this morning. So you know, a lecture can be many things. At times, it can be a stimulating presentation of wit and information, and at other times it can drone on for hours and all you get out of it is a not so restful nap. What we, and everyone else, need to keep in mind are the questions "When is a lecture a good teaching method?" and "When is it bad?" A lecture can be good when the class is very large. Lectures can also be useful when the class time is very limited, under 40 minutes. This time frame gives you just enough time to teach the vital information the students might need to begin a project. To

help make the lecture more stimulating, use subject related visual effects and examples in your teaching. If you have a comic strip or joke/story that is applicable, show or tell it to the class. However, telling long stories that do not have a punch line or are not applicable to the assignment at hand can be detrimental to your 40 minutes or less of teaching. The more unclear and unfocused your lecture is, the more students will lose interest. This is inevitable. Think carefully about this method if it is the only one you intend to use because a bad lecture is usually a bad learning experience.

Much more interesting than the lecture method is the hands-on/demonstration. Most people have a better learning experience when they practice and learn at the same time.

Example: most students will understand searching a database better if they search themselves than if they were instructed while sitting at a table in a classroom and were never able to try themselves.

The hands-on method is excellent to use when students have a specific assignment that they are working towards. This way they can search their subject while learning the source at the same time. The only time this is slightly ineffective is when the class does not have a

specific assignment or when the class is so large there is not enough equipment or books for everyone. (Two students per computer or books works fairly well. Any more than this gets crowded and distracting.)

For small classes (under 20), an excellent and interesting method is to let the students teach much of the class. This is a great opportunity for peers to teach peers. Plus, all students get the chance to become experts on a particular source. This works really well for either print or electronic media. However, if the class is too large, this method will be too time-consuming if you only have one class period.

Example: Pair students in groups of 2 or 3. Each group is given either a reference book, an index, or a URL (Uniform Resource Locator). Students are given 5-10 minutes to answer the following questions: What is the title/URL? How is the source accessed? Is it indexed? How? What type of information can you find in it? How is it useful for this assignment or course? Have students tell the rest of the class the answers to these questions.

The best method, and first choice in my opinion, is a combination of any of the above. The best thing about a combination of methods is that everyone is happy. You have the opportunity to say anything vital that must be stated and the student gets a chance to be an active learner in the class. If including a lecture, be sure to keep it focused on the assignment or topic!

Once you have chosen your method of teaching and have planned your course, keep the following tips in mind. These will help make your presentation clear and effective to the listeners.

1. No library jargon without definitions

Never assume that a student knows the definition of bibliography or citation. Some will know, but many will not. Always define your terms the first time you use it.

2. Be enthusiastic

If you act bored, why shouldn't the students? Your enthusiasm will be catching if you make the most of it.

3. Body language

This is especially important during a lecture. Move around the room and be active. Point to the overhead, if that is what you are using. Hold up a book and flip through it when talking about it.

4. Room elements

Remember how easy it is to fall asleep at the beach under the warm sun? It is just as easy in a classroom with a furnace set too high and 40 other bodies. Keep the room a bit on the cool side to keep students (and yourself) awake and alert. Another room element to keep in mind is the room setup. You want to be able to see all eyes, but you do not want them to be so compact that they are uncomfortable.

5. Your voice

Use it to its potential.

6. Be casual and have fun

This class is not going to make or break your career. Learning, and teaching, how to find information should be a great experience for all. Don't spoil it for you and the students by taking yourself too seriously.

Effectively teaching Government information is primarily the same between paper and electronic formats. The few differences are how to present the information and using it in

the chosen teaching method. Paper is the format that we librarians must often force feed to today's undergraduates. Paper indexes and reference books are often seen as artifacts of research days past. The most effective techniques for teaching paper is either hands-on or students teach. With both of these, students get the chance to see what wealth of information various books and indexes have. One thing to remember is that the more difficult the research, the more assistance the students may need. This may include offering office hours or an extra instruction session.

A quick method to help students that will educate after the instruction session is over is to give handouts that explain a particularly difficult source or concept (Census tracts or bill tracking).

Example: N410 Tertiary Care in the Community
This class is taught every semester at Valparaiso University to senior nursing students. Their assignment is to find demographic information and statistics for a particular area of a Northwest Indiana town. Essential documents that are taught are Census tract maps and the accompanying CD's and books, MMWR, and several local and state documents with health statistics. Handouts that are given to the students include a photocopy of a portion of a tract map, the tract legend, and a sample page from the book showing the statistics for a particular tract area. Before leaving class, each student looks at a tract map and figures out how to interpret the lines and numbers. As students return to the library to work on their project, they refer back to the handouts to remember what they were taught and educate themselves.

The N410 library session is highly effective because students learn a specific skill that helps them complete an assignment. They also come away confident in their abilities to conquer an area of the library and their research.

Some of the most frequently taught documents are:

- Census & Statistics
- Anything having to do with Congress and Bill making
Congressional Record, Y fiche, Public Laws, Serial Set, CIS indexes (although they are privately produced, they are wonderful for teaching the undergraduate)
- Maps of any nature
- Department of Health & Human Services

As mentioned before, teaching paper and electronic can be very similar. Following are some similarities and several similarities that will affect the success of your instruction session.

More and more students are coming to the library and expecting all of the answers to their questions to be available via the Internet or by some other electronic means. Fortunately, the U.S. Government is a leader in the electronic presentation of information. It is exciting to be able to showcase Government documents in the electronic environment. The problem is not lack of electronic information, but retrieval of the exact piece of information when needed. The challenge for Government documents librarians is to master, organize and negotiate the wealth of electronic Government information and be ready to share it with our users.

From my experience teaching undergraduates how to use both paper and electronic

Government documents, and as one of three trainers for GPO Access in Indiana, I have developed this top ten list of suggestions for introducing electronic Government information to undergraduates.

Top Ten List

10. Size up your audience

Most students have never been introduced to the wonderful world of Government information. While many young undergraduates have used the Internet, returning adults may be computer illiterate or downright computer phobic. Size up your audience. Ask them what their experience level is with both Government documents and using electronic databases to find information. Don't expect them to necessarily tell the truth, the whole truth and nothing but the truth. Throughout the session talk TO them, not AT them. Ask questions for feedback that denotes some level of understanding. Watch their eyes and body language. Glassy eyes and tense or overly relaxed postures either means a very late night or complete incomprehension.

Be casual and have fun! Encourage questions and don't be flustered if you don't know all of the answers. Make a note of the questions you can't answer and get back to the class or individual at a later date.

9. Explain a few sources well

Although you want to encourage students by showing them the wealth of Government information available, you don't want to overwhelm them. Most students are in your classroom for one reason and one reason only. They have a paper to research and need specific answers to specific questions. Even if their assignment involves the use of a lot of different sources DO NOT TRY TO TEACH MORE THAN TWO SOURCES IN DEPTH. Take two databases that complement each other, like the Federal Register and the Code of Federal Regulations, or choose a Web site, like

the Census Bureau, and illustrate the best searching techniques for retrieving data from that site.

8. Use CURRENT and/or RELEVANT examples

Nothing turns a class of undergraduates off faster than to sit and listen to an explanation of library research that does not relate specifically to their class assignment. They want to know how every source that you introduce can be used to find information on their topic. Talk to the instructor. Get a copy of the class assignment. Get a list of topics that students have already chosen to work on. Pick a topic yourself and work through the assignment. If the type of research is defined but not the subject, for example, do a legislative history on some topic, use current events or other timely topics of interest.

7. Explain/review Boolean and free-text searching techniques

Boolean logic, free-text searching are jargon, gobbledegook to most students. While natural language searching is inching its way into some databases and Web search engines, the best results still come from some organized arrangement of keywords, the use of truncation, and synonyms.

The key is to keep your instruction simple. We all know that most databases offer a plethora of advanced searching techniques, and certainly you will want to tell the students where they can locate instructions on search enhancements. However, you cannot cover them all without losing most, if not all, of your audience. Introduce students to the basic search techniques that will retrieve what they need most of the time.

- **ADJ, AND, and OR**

Most databases can be searched using these three boolean operators (connectors), so make sure students understand how to

use these basic terms.

- **“Quotation marks”**

Databases in GPO Access and many Web site engines use quotation marks to search an exact phrase.

- **Truncation**

Explain what truncation is and how it can be used to retrieve roots of words that encompass plural and variant spellings.

- **Relevancy ranking**

It is useful to discuss relevancy ranking when introducing GPO Access databases. Because retrievals can be very large in some of these databases, relevancy ranking helps students select the most important items.

The pitfalls of free-text searching should be emphasized. Warn students that most databases are not ready for natural language queries. Tell them about stop words and using synonyms to broaden their searches.

6. Use a combination of teaching methods

Research shows that everyone learns differently. Some students prefer being shown how to do something. Others want to be told, and still others like to work from an instruction sheet. Most of us learn better with a combination of these techniques. The optimum setting for teaching electronic Government documents to undergraduates is a computer lab with a teacher’s workstation where you can show and explain an electronic source and then leave time for the students to experiment on their own. However, if you don’t have a computer lab, try to have some way of giving the class a live demonstration of the product with plenty of time for questions and further demonstrations after you have covered the basics. Always have a handout

that summarizes the main information that you want them to remember.

5. Prepare online guides

Not only is it essential to have handouts for the students, but it is also essential that you put your handouts on the Web for increased accessibility. These handouts can be bibliographies and/or Webliographies, complete with hot links to databases and/or Web sites. They can be how-to guides for individual databases, subject guides, guides to using specific types of materials like maps, census, or statistics, or guides to using your library or documents collection. Making your guides available electronically serves many purposes. Inevitably the students will lose their handouts and come looking for another copy. Having your guides in electronic format can save the library money in printing costs. Students can easily locate the sources you introduced them to by just clicking on the hot links on the guide. Library staff can easily access information needed to help students working on class assignments. Since it is easier to update guides that are in electronic format, electronic guides can and should be revised frequently to keep them relevant and informative.

If you don’t have time to prepare your own online guides, you might be able to find a guide already prepared by someone else which you can link to until you have time to develop your own. ALA/GODORT has an excellent Handout Exchange available on the University of Michigan’s Documents Center Web site: < www.lib.umich.edu/libhome/Documents.center/godort.html >. Be sure if you use someone else’s guide that you give them credit on your Web page.

4. Create a permanent Web site of Government sources

If you are going to teach electronic Government information it is important that you develop at least one Web page of links to

core Government sources. Again if you cannot develop your own pages the Government Information Technology Committee of GODORT has prepared a Government Information Web page template for libraries without the resources to design and maintain a Web page on their own. The template is created to be quickly and easily edited and loaded. It is available at <www.library.unt.edu/gpo/template/index.html>.

3. Teach evaluation of Internet resources

It is a natural inclination to accept everything in print as the absolute, gospel truth. Just as we have taught students to evaluate printed sources, we need to remind them to always question the validity of electronic information, including Government information. A few basic checks can help them evaluate their source(s):

- Check the authority of the author.
 - Who is the author and what are his/her credentials for providing the information?
 - What institution (company, Government, university, organization) sponsors this information?
 - What bias might there be with the information presented by this author or institution?
- Check the scope and criteria for inclusion.
 - What kind and how much information is included/excluded in/from the database/Web site?
 - What is the purpose of the information-to inform, explain, persuade?
 - Who is the intended audience for the information?

- Check the currency of the data.
 - When was the site last updated?
 - What information was updated?

2. Be prepared for electronic failure

As prepared as you might be, remember something always goes wrong. You could experience a minor glitch to a major electronic failure. Count on having some kind of backup. You may even have to resort to the low-tech, hands-on, paper handouts and show and tell.

1. Encourage future contact

Encourage students to contact you for individual follow up on their project or future projects in which Government information may be useful. Depending upon your library policies, give each student a business card, or tell them how they can best reach you, via e-mail, phone, or by appointment.

Even though we may be knowledgeable about Government documents and eager to help students find Government information, the rest of the library staff may not be as willing or able to help when students come to the library for help in locating Government information. The other issue is that many Government document librarians do not have the opportunity to teach an instruction session. It is important that we not only share our knowledge and enthusiasm for Government documents with students, but with librarians and staff as well. Here are some ways that will help you teach other librarians the wealth of information that is available through Government documents.

- Invite other librarians/staff to your presentations
- Keep your peers informed of Government documents and information

- Team teach
- Share enthusiasm for the wonderful world of Government information
- Provide a bibliographic instruction session for other instructors

Now for the hands-on part of the presentation. We have prepared for you actual assignments that students have brought into the library needing answers. These questions come from all areas of the academic curriculum. Think of three or four Government documents or areas that might be helpful for the students. Try using these questions in your instruction session with other librarians and library staff. Good luck!

1. Choose a census tract. Identify three socio-economic data elements. Compare 1980 and 1990 figures.
2. Research the evolution of Supreme Court interpretation of a specific aspect of the Bill of Rights.
3. Research some aspect of the U.S. - Central American Relations.
4. Track the effects of El Nino on the weather conditions of the Midwest.
5. Investigate the behavior of the spotted owl.
6. What percentage of sex offenses are committed by juveniles and what is the recidivism of teenage sex offenders?
7. What is the average amount of time that a person 20-26 stays at their job?
8. What is the employment projection for Hospitality/Tourism/Leisure management and salaries to the year 2005?
9. Write a legal brief on a Supreme Court case in the area of Mass Communication Law.
10. What is the Government's perspective on music education?
11. What is the Government's current policy on school lunch programs?
12. I am looking for a grant that will allow me to dance in France.
13. I am looking for information on public grazing rights on Navajo Indian Reservations.
14. I need information on pancreatic cancer.
15. What is the current role of the Government with the issue of tobacco advertising?

Collection Management Using the Documents Data Miner

Nan Myers
Wichita State University
Wichita, KS

Introduction

Thank you for attending our demonstration of the Documents Data Miner (DDM). I'm Nan Myers, Government Documents Librarian at Wichita State University. With me today are John Ellis, Senior Database Analyst with the National Institute for Aviation Research, and Cathy Hartman, Documents Librarian at the University of North Texas. John and I have been working on the Documents Data Miner since August 1997. Included in our effort was the development of the GPO partnership which we hope will facilitate better access to FDLP administrative information.

I will set the stage for our presentation with a little background on the Data Miner and then demonstrate the features available at the site. John will explain the technical development of the utility. And, Cathy has been generous enough to take time to critique the site over the past couple of months. She will address several collection development scenarios which employ the Data Miner in decision support.

[slide 1]

Timeline: Fall 1995 thru Spring 1998

- Benchmarks:
 1. Records Tapeload (1994)
 2. Mainstreaming Documents (1995)
 3. Collection Decisions: RDBMS (1996)
 4. GPO Partnership: Web Database (1997/98)

- Acquisition of a Repertoire of Techniques
- Development of Interactive Professional Relationships
- Open Systems Follow-On's

To briefly place the Data Miner in a research and political context at Wichita State, I prepared a slide which shows a time line overview of progress towards this Web-based tool for managing the collection development tasks we all face in depositories. When I came to WSU in 1994, my first task was to oversee a tapeload of bibliographic records for the documents collection, both retrospective holdings and currently received items. I was also charged with regularizing cataloging functions in Technical Services. Second, we mainstreamed the documents processing workload in Technical Services. And, third, we began a challenging collection management initiative:

- to downsize the physical collection,
- to emphasize electronic access, and
- to market Government documents.

At this point, what is now the Documents Data Miner began to grow out of operational imperatives at Wichita State. Basically, we needed a decision support system that would allow us to do three things:

1. eliminate labor-intensive tasks associated with documents processing and record keeping;

2. electronically warehouse item card information; and
3. facilitate our vision for Documents collection management.

As space to house the collection was critical, we wanted to intelligently downsize based on usage statistics and holdings of other Kansas depositories. Eventually, we are interested in statewide cooperative collection management.

[slide 2]

Desktop Data Mining

- Fast, Accurate Data Acquisition
- Reliable Data Updating at Regular Intervals
- Simple, Comprehensive Application Platform
- Utilitarian Data Extraction
- Speed
- Reliability: Stamina of the System

In the fall of 1995, we began developing an in-house relational database, which we called GPRD, for Government documents Processing Relational Database. GPRD was an Information Management System for our depository complete with data mining programs. It provided a report generation platform, and it was a decision support system.

We are all familiar with data mining, unfortunately. When our credit card providers sell our purchasing history to marketers and we receive unwanted third class mail and salespeople call during dinner, we know we're being mined. A glance at the slide behind me will indicate the characteristics of desktop data mining.

[slide 3]

Federal Documents Metadata

- List of Classes
- Inactive and Discontinued Items
- Selection Profiles of Depository Libraries
- Other Data as May Arise

The application of this same methodology to Federal Documents metadata (the equivalent to a purchasing history) is focused, for us, upon electronic versions of the List of Classes, inactive and discontinued items, and selection profiles of depository libraries. In the future, we may add other databases to the DDM.

We began prototyping our mining operation last spring from Tom Tyler's BDL Web site using C++ programs run on a Unix server. From the BDL we mined the List of Classes, the Kansas Union List (which Tom had put up for us) and inactive/discontinued information. The mined data was housed in Paradox 7.0 and was extracted using Structured Query Language.

This work confirmed the viability of our techniques and, because of the cooperation and interest of faculty and students in our Computer Science and EE Departments, the costs were affordable.

To me, GPRD pointed to a national need for a standardized set of electronic tools for working on documents. Our primary goal by last summer was to meet the need of our community for a powerful search engine which could associate various databases of administrative information from the FDLP.

[slide 4]

Documents Web Tools

1. Searchable:
 - List of Classes
 - Inactive/Discontinued List
2. LOC/Item Lister Merger
3. Regional Union Listing
4. Scalability

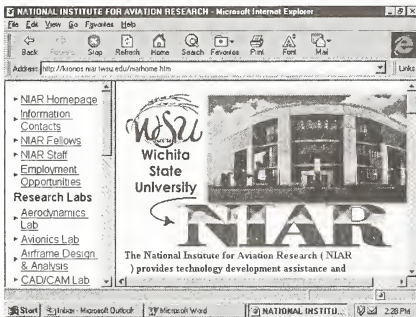
I wanted the following:

- A searchable List of Classes.
- Information on Inactive and Discontinued titles at my fingertips.

- Data from the List of Classes associated with the items in our profile from the Item Lister.
- Item selections for the other Kansas depositories and items selected by those depositories within a 100-mile radius of Wichita.
- And, a platform that would grow with the changing documents environment.

Thus, last summer, the Documents Data Miner was born. Moving the techniques we had developed from a desktop to the Web involved much more than differences in scale, however. In order to rapidly implement the development of the Web site, we were fortunate to be able to capitalize on the expertise of colleagues in NIAR, the National Institute for Aviation Research.

[slide 5]



Initially, NIAR was willing to lease space on their server to us for the Data Miner project. However, John became interested in the complexities of prototyping a database for a large body of metadata because of similarities to some other projects he was working on. In exchange for a nominal monthly storage fee, they have contributed time, expertise, hardware and software. If properly billed to

us, the Data Miner would have cost in excess of \$25,000!

In addition, without the cooperation of the GPO, we would not have had access to all the official data that we wanted. We began to explore a partnership relationship last fall and, at our request, GPO made files available in a custom format for FTP. In addition, they have agreed to publish the Inactive or Discontinued Items list on the Web in the near future.

There were other, technical challenges the Library could not have singly addressed, but John will discuss those in a few minutes.

[slide 6]

Web Data Mining

- Official Source of Data (FDLP)
- Very Large, Fast Server
- Mirroring and Security/User Profiling
- User Friendly Data Extraction
- Sophisticated Platform
- National Utility

Turning to the next slide, now, I would like to add the following about Web data mining:

- Our official source of data was the FDLP.
- Server requirements eventually reached 1 Gigabyte of storage and the requirements for higher memory became critical, because of the size of some of the tables.
- The partnership raised mirroring and backup as central issues and informed our wish to know how our users were working the site.
- The GPO partnership, obviously, was the only relationship that would justify the expense of the site.

[slide 7]

DDM: Development Goals

- Searchable List of Classes
- Searchable Inactive/Discontinued Items
- Collection Profiling
- Build/Downsize w/State/Region Profiling
- Easy Export of Query/Profile Results
- Directory/E-mail access
- In-House Functionality w/Exported Tables
- Open System Follow-On Development

The primary goal of the Data Miner development is selection/deselection decision support. The handouts given to you show eight criteria for meeting that goal. In addition to the first four, we projected that users would want to export the information from profile queries in order to build in-house databases. We further decided to include the information from the depository directory with e-mail access for convenient communication among depositories. And, we designed DDM as an open system, allowing for rapid redesign and modification.

Demonstration

I'm going to move now to a demonstration of the main features of the DDM.

First, requirements for use of the Documents Data Miner are:

1. Netscape or Internet Explorer at 3.0 or higher.
2. Browsers must support frames.
3. Cookies must be turned on.
4. JavaScript must be enabled.

There are two ways to navigate in the DDM. The home screen offers the four key tasks performed by the DDM, and these are also accessible at the frame on the top. The frame also offers an Introduction, Support screen, and Home. We determined to have a frame in the overall design:

- For ease of use
- For quickness of use
- To eliminate having to back out of a series of pages

If you read the Introduction, you will learn that the DDM is a search engine combining files from the latest version of three databases published by the FDLP: The List of Classes, Current Item Number Profiles for Depository Libraries, and the Federal Depositories Library Directory. A fourth title, Inactive or Discontinued Items, is not yet available online from the FDLP. However, we have mined this information from an external source (the BDL). The latest date that the files have been refreshed on the DDM is built into the frame. Our intention is to update files on the same day they are updated at the FDLP sites, which is usually the first Friday of each month.

Button 1 - List of Classes:

Returning to the home page, I want to start the demo from the List of Classes. From this screen, you can:

- Search the current List of Classes by field,
- Or, search the Inactive/Discontinued items by field,
- Or, merge the searches by choosing "all" at the "Status" box.

Clicking on this feature brings up a search grid with the following choices:

- **Agency:** You may search "all," or the pop-up box provides the list of agencies with the sum of active item number stems for each agency.
- **Item Number:** You may enter a full item number, which requires exact spacing and punctuation, or you may enter a partial item number.

- **SuDocs Stem:** You may enter a complete or partial SuDocs stem.

Notice that the function choice (SuDocs stem) is in blue text. Whenever you see blue text, you may click on that and obtain an example or explanation. These are the JavaScript applications that require Java to be enabled. Examples of search possibilities for SuDocs stems are: C, C 1, or C 1.54. Spacing and punctuation must be exact, but the ending colon is not required.

- **Title Search:** You may search an exact title, or words from a title. Automatic left/right truncation is built in.
- **Format:** A drop down box allows you to choose from: Any Format, Paper, Microfiche, CD-ROM discs, Electronic, and Electronic Library. These are the formats used by the GPO.
- **Status:** You may search for either active, inactive/discontinued, or all.

Some Searches Demonstrated:

1. “Agency” and “Active”: To see what is actively published by an agency, such as the FCA (Farm Credit Administration), select that agency and status “active,” which is the default at the status box. Then, submit.

The results screen, called “Complete Class List,” shows what we requested (FCA and active), then offers a list of results arrayed in SuDocs order. The display gives us the complete information about each item - the SuDocs stem, Item Number, Title, Format, Frequency and Status.

Additional features: If, at this point, you click on the SuDocs stem of an entry, DDM brings up a screen displaying a list of **SuDocs stems assigned to that Item Number**. Or, if you click on the Item Number, you can access the

Union List feature. I will be discussing the Union List feature in more detail later, but I will mention that if you do not have Union List parameters set at this point, the DDM will take you to the page to set those up.

2. “Agency” and “All”: Let’s look now at the FCA and all of its Item Numbers, both active and inactive. Whereas we found seven active items for that agency, this search produces 12 records, indicating in the far right status column which are active and which are discontinued.

3. Title Searching: Returning to the List of Classes page, let’s try a title search. In a title search, the search engine allows us to input an exact title, or use a word from the title, or make use of the automatic left/right truncation feature. Try a title search on the word “free” and we find titles for A) a Department of the Interior report to Congress about “free-roaming horses,” B) the Freedom of Information Act Annual Report, C) the Freedom of Information Case List — both from the Justice Department, and D) a publication from Congress which is printed on “acid free paper.”

4. The “And” Function: The Documents Data Miner allows the user to “build” selections. If we want to narrow a search, we may. Suppose we want to determine all the titles issued by the Census Bureau in CD-ROM format, we select the agency (Commerce), and input the SuDocs for the Census Bureau (which is C 3), and select the format we want (CD ROM).

I find myself using the List of Classes search screen for a variety of purposes. Sometimes I have a mystery item number. Or, I may want to see all the titles in a certain format – all the CD-ROM titles, etc. Or, I may want to concentrate on Inactive/Discontinued titles.

Button 2 - Inactive or Discontinued

The Inactive/Discontinued feature is in development. As you know, the publication titled Inactive or Discontinued Items... is not

yet available for downloading from the FDLP Administration page. Data available in this section was originally mined from the BDL D site. You may search this data from the List of Classes feature, or from this location.

Search Demonstrated: From this screen, you may search by Item Number, SuDocs stem, or by title.

For example, let's just check to see what is inactive from the U.S. Information Agency. For that search, we can input the partial SuDocs "IA." The results screen provides us with a list of four inactive SuDocs stems for this agency.

Additional Features: At this point, you see the unique feature for the Inactive/Discontinued component: the **NOTES** field. The annotations for the NOTES originated from Shipping Lists, the List of Classes, Surveys, the BDL D title List of Classes - Additions & Changes, and other Depository Library Program sources.

If a note is available, the word "YES" is in the box. A note can be accessed by clicking on the blue text. Clicking on the SuDocs stem provides a note for that SuDocs, and clicking on the Item Number provides all the notes available for the SuDocs stems attached to that item number.

Button 3 - Depository Selection and Directory

Returning to the Home page, the third button is called "Depository Selection and Directory." You will use this point of entry if you want to search your own depository profile. This feature merges profile data from the Item Lister with the List of Classes, allowing the user to view complete item information for the selections in their own profile. It also provides directory information for each depository and e-mail functions for ease in communicating.

The search parameters at "Depository Selection" are designed to let you search in several ways. You may:

- Enter the depository number,
- Enter an institution or library name — or a partial name,
- Search for depositories in a certain city,
- Request depositories for an entire state,
- Or, search by type of library, such as Community College Libraries, Academic Law Libraries, or State Libraries.

There is a pop-up table for states and types of libraries.

Search Demonstrated: Let's do a search for a depository number. I'll enter 0204A, which is Wichita State University's depository number, and click on submit. This presents us with a screen that allows three functions:

- Click on the Depository Name for directory information. All the fields available in the GPO database are displayed: names, addresses, phone numbers, depository type, size, year designated as a depository, and congressional district.
- Click on the E-Mail Address to send a message to the depository librarian at that institution. (Since this data is supplied to the GPO by individual depositories, you may occasionally encounter an outdated e-mail or a blank box if a library has not kept the GPO informed of up-to-date information. Corrections should be sent to the GPO.)
- Click on the Depository Number to search the profile.

Depository Profile Search: Clicking on the Depository Number 0204A brings up a screen titled "Selections for 0204A, Wichita State University, Ablah Library, Wichita, KS." The search grid is similar to that of the List of

Classes, with fields for Agency, Item Number, SuDocs Stem, Title, Format and Status. However, queries will only produce results for items selected by the depository you are searching.

Additional Feature: The Agency drop-down box provides a summary of item number totals by agency for this depository. For example, Wichita State selects 230 items from the Agriculture Department and 1,347 from the Commerce Department.

I frequently want to know if our depository has selected a certain item number, so I'll do a search on 0546-D to find out if we do select that. The results screen brings up 21 titles from the General Accounting Office which are attached to that item number. If I wanted to consider de-selecting a specific title here, I would need to be sure that I could let go of all 21.

In addition, I might be better able to make a decision to de-select if I knew which other depositories in my region or state were also selecting this item number. Clicking on the Item Number in the display of the 21 titles will provide me with union list information, after I have set an appropriate filter. If I click on the Item Number without initially setting that filter, Documents Data Miner immediately sends me to the Union List Profile.

Button 4 - Union List Profile

At this point, I'll describe the Union List Feature, which is available at the last button on the Home page, as well as on the frame. Or, as I just mentioned, you will be sent there if you are requesting union list information, but have not already set up a filter. So, let's go ahead and set that filter. Our choices are to filter by:

- State
- Region
- Or, by Distance from a Depository

Let's go ahead and choose State, which for us is Kansas, and submit. If you are setting this before beginning your work, hitting "submit" will return you to the Home page, where you can enter "Depository Selection." If you have been sent to the Union List Profile while already in "Depository Selection," Data Miner sends you right back to your search grid after you set up a filter.

If you recall, our initial query was for Item Number 0546-D, which produced a total of 21 GAO titles. Checking to see how many depositories in Kansas select that Item Number, we find a total of eight which do. Decisions to retain or deselect the item number could then be based on use of the items, depth of coverage in our area, and availability of reliable courier service. In Kansas, we have an excellent courier service, with potential 24-hour turnaround.

Now, suppose I want to refine my union list further and see how many depository libraries within 100 miles of Wichita State select this item, I return to the Union List Profile and change the filter to 100 miles radius at the "Distance from a Depository" option. Hitting "submit" returns me to my search grid, and I once again click on the item number. This time I find that only one other depository within a 100 mile radius of Wichita selects this item, and that depository is in Oklahoma.

The Union List feature is designed to assist depositories with building and/or downsizing their collections. The addition of a Gazetteer to the tables of the Data Miner allows the user to customize a group of depository profiles and extract selection information on item numbers. For libraries which already have consortial collecting agreements, I hope this utility will be very helpful. For those who WANT cooperative collection development, but thought it was too much work, I hope this tool will get you started.

Cathy will talk more about the uses of the Union List function for regional collecting in

her presentation, so this concludes my portion of the presentation. I'll turn this over to John Ellis, who will tell you about the architecture and functionality of the Documents Data Miner.

Architecture and Functionality of Documents Data Miner

John Ellis

National Institute of Aviation Research, Wichita State University
Wichita, KS

Actually, I had no notes when I did my presentation of the technical side of the DDM. Most developers are like new fathers or mothers who need only an audience to expound for hours about their latest creation. I will, however, use the presentation slides and try to recreate some of the ideas that came to mind as they were flashed on the screen.

[slide 1]

Wichita State University
National Institute for Aviation Research
John M. Ellis
A.J. McCormack

The discussion of the technical side of the DDM will center on these key points:

- Design Parameters
- Current Attributes
- What It Cost
- Some Statistics
- Future Enhancements
- KISS

[slide 2]

GPO Data

- Profile.dbf (txt)
- listclass.txt
- appendix.doc
- union1 (ff-ddis or cd-ddis)
- fedbbs.access.gpo.gov

Early on we decided on these parameters: Use only GPO data and when external data was added we tried to find FIPS data to

augment what the GPO supplied. For instance, longitude and latitude data for the institutions were supplied mostly from USGS databases.

[slide 3]

Design Parameters

- Use only GPO data
- Use low cost wintel database server
- Use low cost wintel Web server
- Use only Web based clients
- Target Netscape and IE browsers
- Make it flexible

Use low cost wintel (Windows OS and Intel cpu) database servers and Microsoft

Operating systems. Our experience with Intel based servers has proven them to be reliable and extremely effective if configured correctly. Our servers use dual cpu's, dual SCSI disk controllers, mirrored disk systems exceeding 20 Gb and a minimum of 256 Mb of memory. These typically sell in the \$8-12,000 range and Microsoft offers extremely deep discounts on their OS products for educational institutions. You can do it even cheaper than this. The demo that we did at the conference was LIVE and it was all on a Pentium 133 laptop running a Microsoft Access 7.0 database on a CD, Microsoft personal Web server and IE 4.0 for the browser. It wasn't fast, but it did the show and cost about \$3,000. This wasn't a watered down demo with a couple of depositories loaded up. This was the full database with all 3 million item lister elements included.

Use low cost wintel Web server. There are several to choose from but the IIS 4.0 server from Microsoft comes bundled with NT server 4.0 and is therefore free. It also is extremely powerful and easy to use. There are about 4 sets of ASP (active server pages) which are the core components of the DDM. The Microsoft paradigm for serving dynamic data on Web pages is both elegant and simple. It takes very little (but finely tuned) code to produce the pages that pop up when those queries are submitted.

Use only Web based clients. There is a plethora of products out there that will serve quite well as a front-end client. The big problem is, "How do you distribute these programs out to the masses?" The Web browser has made that problem moot. Everyone has a browser on his or her desk in the form of Netscape or Internet Explorer. For the developer this is as good as it gets. All users have a client program on their computer that acts pretty much the same no matter what you throw at it, and when they want a new client, they go bug Netscape or Microsoft, not the developer.

Target Netscape and IE browsers. We were very careful to make sure that our programs would work equally well on either Netscape 3.0 or better and IE 3.0 or better. The bottom line was that the client had to accept cookies and had to have JavaScript enabled.

[slide 4]

Keep It Simple

- Microsoft VB 5.0
- Microsoft Access 97
- Microsoft Interdev
- No C++
- No special libraries
- No custom CGI's
- Built by 2 developers

Make it flexible and keep it simple. You can design any system to death. Or you can use

flexible tools to throw something together and see what you like, and don't like. The DDM was throw together from pieces of previous projects and data downloaded from the GPO—in 2 days. I did the prototyping and Nan Myers did the critical evaluation of the directions we should pursue. I'm not sure that either one of us understands quite what the other does for a living, but between us we collectively built something that had never existed before.

Programmers or Web masters can't do a project like this on their own. It is very necessary that the client be very involved in the development process to keep the developer from wandering off track. The programming for this project was completed using only Microsoft VB 5.0, Microsoft Access 97 and Microsoft Interdev. There is no C++, no special libraries and no custom CGI's. It was built by 2 developers.

[slide 5]

Current Attributes

- Dual Pentium Servers
 - 1 backup/development server
 - 1 production Web server
 - 1 production SQL Server
- Microsoft NT Server 4.0
- Microsoft SQL Server 6.5
 - 1 development database
 - 1 production database
- Microsoft IIS 4.0
 - 1 backup/development server
 - 1 production server
- 1.2 Gigabyte of storage
 - about 600Mb per database
- University supplied T1 network
- GPO data + "discontinued notes"

- WebTrends analysis software
- Can use any ODBC compliant Db
- A work in progress

The last statement if of particular interest. This project will probably never be finished. We constantly see things that need to be corrected, refined, or added. We encourage the user community to make suggestions for enhancements and to notify us when the programs or data appear to be in error.

[slide 6]

What It Cost?

- Data free
- Microsoft Back Office \$3000
- MS Visual Studio \$1400
- 1 Pentium server \$8000
- Db Analyst 40@60/hr. \$2400
- Db Programmer 120@50/hr. \$6000
- Web programmer 120@40/hr. \$4800
- approximate \$25600

The items on this slide represent approximate street prices for the Microsoft products that were used to develop and support the DDM project. The majority of the cost is for developers and servers. If you already have this resource on site then the cost is diminished. In reality, at least two servers are needed and three is even better. The Web server should be different than the database server and it is always nice to have a separate development server that is isolated from the production system.

[slide 7]

Current Statistics

- depository active 1,364
- depository inactive 5
- gpoClasses active 9,507
- gpoClasses inactive 8,158
- Unionlist active 2,718,126
- unionlist inactive 225,754

The current stats slide shows the record counts for the depository table (profiles), the classlist table and the unionlist table. Inactive counts are the items that have been dropped from the official monthly data feeds from the GPO. Instead of dropping these items from our tables, we just mark them as inactive.

[slide 8]

Future Enhancements

- Subagencies
- Export Features (full or profiled)
- Inactive Profiles?

Future enhancements will probably involve designing an export feature to allow users to download all or any part of the database that they wish to maintain on their site. Most of the future features will probably come from requests made by the user community.

Finally, I can offer some sample report output from the administrative side of Documents Data Miner.

[slide 9]

Valid item# not in a depository	
items in List of Classes but not in active item list	
item#	active value
0260-E-01	Y (null)
0466-A-05	Y (null)
0494-K-10	Y (null)
0494-K-10	Apr 3 1998 10:08AM
0557-D-01	Y (null)
0831-C-01	Y Feb 11 1998 11:38AM
0831-C-01	Y Feb 11 1998 11:38AM
0900-C-14	Y Feb 11 1998 11:39AM
1008-D-02	Y (null)
1070-L-02	Y (null)
1070-L-02	Y (null)
(11 row(s) affected)	

[slide 10]

Orphan Item/Sudoc pairs

status of orphan items found in opoclasses			
orphan items	sudocstem	status	last update
--			
0231-B-23	C 61.40:	inactive	Mar 6 1998 10:48AM
0238-B	C 12.36/7:	inactive	(null)
0378-E-08	O 5.351/3-2:	inactive	Oct 10 1997 4:12PM
0431-I-41	EP 1.8/7:	inactive	Mar 24 1998 2:49PM
0435-E-12	E 3.11/4:	inactive	Oct 15 1997 5:21PM
0449	HE 23.12:	inactive	Nov 10 1997 12:46PM
0486-F-02	HE 20.5201:	inactive	(null)
0507-G-49	HE 10.3161/2:	inactive	Nov 10 1997 12:46PM
0512-A-27	HE 22.25/2:	inactive	(null)
0512-A-27	HE 22.25:	inactive	(null)
0581-E-11	HE 1.46/6-2:	inactive	Mar 6 1998 10:48AM
0581-E-11	HE 1.46/6:	inactive	Mar 6 1998 10:48AM
0768-C-03	L 2.2/5:	inactive	Oct 15 1997 5:23PM
1061-L	Y 3.F 31/25:	inactive	Oct 10 1997 1:26PM

(if rows) affected)

[slide 11]

Orphans - Depository count

orphan items	number of depositories
0231-B-23	552
0238-B	217
0378-E-08	420
0431-I-41	247
0435-E-12	220
0449	1100
0486-F-02	394
0507-G-49	633
0512-A-27	315
0581-E-11	481
0768-C-03	1238
1061-L	287

Documents Data Miner: A Resource for Collection Development and Management

Cathy Hartman
University of North Texas
Denton, TX

Introduction

Let me begin by saying “thank you” to Nan Myers and John Ellis for making this resource available to the depository library community. A few months ago, Nan contacted me to ask if I would work with her to test and evaluate the Documents Data Miner as a collection development resource and then present practical uses of the Data Miner as a member of this panel. After one viewing of the site, I immediately agreed to join her team. From my first searches of the databases, it was readily apparent that the Data Miner would be an exceptional tool for many aspects of our collection management and development work.

For several weeks, Nan and I had weekly, long phone conversations during which she very patiently walked me through all the features of the site. With this basic knowledge, I spent the next few weeks using the site.

Nan and John have given you an overview of the Documents Data Miner, including the features, search techniques, and the technical aspects of the relational databases. To illustrate practical applications of the Documents Data Miner, I selected a few of my favorite uses to demonstrate for you, including uses for your library, for cooperative collection development in your city, state, or region, and for other miscellaneous uses. Then, I will close with a few suggestions for enhancement of this wonderful resource.

Collection Development and Management

At the University of North Texas (UNT) depository library, we serve a population of over 25,000 students in addition to the Dallas/Fort Worth region. We are classified as a large depository library with depository holdings of more than one million volumes in the documents collection, and this fall we will be celebrating our 50th anniversary as a depository library. Within this context, there are many ways we can use the Data Miner to assist with collection management and development.

Collection Management and Development within Library

A long-standing goal in our department is to better understand the usage patterns of our collection. We recently implemented a new integrated library system that allows us to build circulation reports by call number ranges. We simply supply our head of circulation with a range of SuDocs stems for the reports. Reports organized by SuDocs stem, i.e., by publishing agency, facilitate using the data for stack management and item selection. Also, if your library scans barcodes of items used in-house, the usage data will be more comprehensive, covering non-circulating titles, as well. Usage statistics will assist our decision making in two areas:

1. With limited stack space, parts of our collection must be sent to a temperature and humidity controlled remote storage

unit. We, of course, prefer to send seldom-used materials. Usage statistics facilitate informed decision-making about relocation of materials. Also, selective depositories need solid usage data for targeting of specific areas for weeding.

2. With all collections, accurate usage statistics are invaluable in the annual item selection review process. Documents Data Miner allows us to build the circulation report lists of currently received SuDocs stems quickly and easily:

- a. From the main page of Documents Data Miner, select "Depository Selection and Directory."
- b. Type in depository number. UNT's number is 0608A. Submit.
- c. Data Miner found the specified depository. To see UNT's item selections, select depository number 0608A.
- d. The resulting screen allows for searching items that UNT selects by agency, by SuDocs stem, and by item number. To search by agency, select the down arrow key on the text box.
- e. Displayed is the number of items selected by UNT from each agency.
- f. Select, for example, the Government Printing Office, and submit or double click.
- g. Displayed is a list of the 29 items UNT selects from GPO. This data can be used and manipulated in so many ways because it can be saved and opened in spreadsheet software. Simply open the file menu, and
- h. Select "Save frame as."

- i. Open your spreadsheet software (example uses Excel) and click the "open file" button.
- j. The application asks that a file be selected to open. Be certain to change the type of file to "all files" since files from the Data Miner will save with a .asp extension. Find your file and open it.
- k. The headings and the table are saved, in color. Because this data is now in spreadsheet format, it can easily be manipulated in many ways, such as deleting columns, merging tables, or adding a column for local notes. To build our list for usage statistics, we need a simple text list of call number stems.
- l. Simply block the column with SuDocs stems, then select "edit/copy" or use the key strokes, <ctrl> C.
- m. Open word processing software, then select "edit/paste" or use the key strokes, <ctrl> V.
- n. The column of the table has been copied. Using the table pull-down menu option, "convert table to text," a simple text list of SuDocs numbers remains, ready to forward to the head of circulation for our report.

Cooperative Collection Development: City/State/Region

The North Central Texas area has several Federal depository libraries, and to support cooperative efforts, we formed the North Texas Documents Group. The group includes librarians from about 15 depository libraries that meet twice each year to discuss issues of interest to all. Represented are a variety of sizes of libraries, both academic and public. Cooperative collection development has long been discussed informally in the group,

however we found it difficult to coordinate a plan. In 1991, a group of 4 or 5 libraries using one of the first electronic List of Classes, commissioned a printout with each library's selections tagged. Other libraries, experiencing a cycle of lean budgets, could not afford to participate, and of course, the printout was quickly out of date with the next item selection cycle. The Documents Data Miner solves all of our technical problems by allowing each library easy, free access to the up-to-date selections of every library in the group. To monitor the selections of the other libraries in the group when making retention or selection decisions is simple.

- a. Using the Documents Data Miner, Select "Union List Profile" in top frame. I find the frame at the top very useful making switching from one feature to another fast and easy.
- b. Type "100" (or any number of miles) in the text box indicating desired radius in miles around your library and your depository library number (0608A) in the depository number text box and submit.
- c. Select "List of Classes" from the frame at top.
- d. Select down arrow key by the "Agency" text box and highlight an agency name. For this example, I will select EPA.
- e. Now, select the down arrow key by the "Formats" text box and highlight a format. As Electronic Resources Coordinator for the UNT Libraries, I am especially interested in seeing what electronic products other libraries in my area have chosen, so I will highlight CD-ROM. Submit.
- f. Displayed is a list of all CD-ROMs offered by EPA. Select the item number of any CD-ROM,
 - g. to see libraries within 100 miles that select it.
 - h. Should this EPA CD-ROM be an item that we are considering for deselecting, I may want to query the libraries on this list to see if someone else will be retaining it. If the list includes only one or two libraries, I can use e-mail links on the table, but if the list is longer, I may prefer to build a list of e-mail addresses using the same technique demonstrated earlier. I can easily save/block/copy a list of e-mail addresses to paste into my e-mail address box to query several librarians with one message.

Now that we have all of our technical impediments removed by Documents Data Miner, the North Texas Documents Group no longer has a reason (excuse?) to delay formulating a cooperative collection development plan. Because Documents Data Miner allows us to monitor selections by agency and by media, it will facilitate assignment of specific agencies for in-depth collection and retention.

Also, we frequently make referrals to other libraries in the group. Another benefit of the Data Miner is the enabling of easy referral of patrons to the appropriate library in the area.

Miscellaneous uses

In the few months since Nan asked me to review the Data Miner site, several miscellaneous tasks offered the opportunity to use the databases. I selected two examples to illustrate tasks made easier by Data Miner.

First, as the Content Partner with GPO to provide permanent public access to the electronic records of the Advisory Commission on InterGovernmental Relations (ACIR), we receive requests from other states and other countries for ACIR documents currently available only in paper. One morning, I

received a phone call from an elderly gentleman. He was calling from a distant state and wanted to know if I had received his fax. He told me that he had called several places trying to find a series of ACIR documents and someone in North Carolina had referred him to us. His fax was sent to a fax machine somewhere on campus (the unknown recipient is probably still wondering what it is), so he resent it to the correct fax number. The fax included clippings from an "unorthodox" publication with an amazing amount of misinformation about the ACIR.

With considerable effort, we found the documents he wanted. Then, I used Documents Data Miner to locate a depository library in his area (there was one in his city), and to e-mail the documents librarian. I sent the list of call numbers and titles for the desired documents. The librarian immediately responded that they did not have them, but would borrow from their regional and that I should refer the gentleman to them. I faxed the information to him and he called a few days later, called me "little lady," and told me how often librarians had helped him find information and what a great group we are. The Documents Data Miner facilitated the exchange between libraries. It was a quick, easy, and effective means of finding and communicating with another depository library.

Second, before the recent conference of the Texas Library Association, I used the Data Miner to build a list of e-mail addresses of all the depository libraries in Texas. I used the list to quickly let everyone know about a meeting that was added too late to be in the conference program. With more than 50 Federal depository libraries in Texas, typing in each e-mail address or sending each a separate message was an unacceptable alternative.

Enhancements

Nan and John have devoted so much time to this project already that "ideas for other

enhancements" may meet with the response of, "Okay, but only if you are willing to help." I do have two ideas for enhancement, and I am willing to help with at least one of them.

The first idea for enhancement is for the feature, Depository Selection and Directory. When the depository library number has been entered and the number selected on the next screen, the search screen appears.

A search by media/format in this section would assist with planning for space in MF and CD-ROM cabinets. By selecting an agency and a format, a library could view all items selected from that agency in a specific format and with the frequency notes included in the table, make projections for purchasing cabinets or other storage equipment. Trends for moving to electronic publishing could be observed for an agency as the percentage of electronic items grows and other media decrease.

Second, we suggest enhancement of the Inactive/Discontinued feature of the Documents Data Miner. The Inactive/Discontinued database currently contains items from 1950 to current, but these items cannot be matched to individual library selections from that time period. By including previous selections for libraries for Inactive/Discontinued items, this feature has immense potential to assist with collection management, referrals, and cooperative collection retention projects. If inactive/discontinued items from 1942 (in November of that year, Item Numbers were first used) to 1950 are added to the database to complete the coverage, then depositories that wish to participate could add their own retrospective item selections. Nan and John would be needed to coordinate with libraries that wish to participate and to outline the technical requirements of the data that we would provide.

This enlarged inactive/discontinued database would, in my opinion, be a major national resource. Collection management for the older sections of our collections would be

added to the list of Data Miner uses. Also, because most of us are batch-loading records in our catalogs for depository library titles, our library symbols are not set in OCLC. An enhanced inactive/discontinued database would clearly facilitate the process of referrals and interlibrary loans.

In closing, again, thank you to Nan, John, and others at Wichita State University involved in this project that began as a local collection development tool and developed into the Documents Data Miner.

Mainstreaming of Technical Services Processing for Federal Depository Collections

Fred C. Schmidt
Colorado State University
Fort Collins, CO 80523

Good afternoon. Today I want to discuss what is perceived to be a trend throughout the Federal depository system: the merging, or mainstreaming of technical services processing with the processing that is performed for general library materials. Sooner or later, every depository library may need to consider different alternatives for its technical processing functions. All of us are aware of the fact that some of the oldest and largest depository libraries in the system have mainstreamed their technical services operations for documents for many years, including the cataloging of most or all of their depository holdings. Indeed, a select number of these libraries house their depository collections in the general collections, using LC, Dewey or other classification schemes. This method of organization is used by a number of very small depository libraries, as well.

The majority of depository libraries house their collections in separate locations and rely on the Superintendent of Documents classification scheme. Most have an organization that combines technical services and public services. This is the type of organization that my institution, Colorado State University (CSU), has had since it became a depository library in 1903. A review of our situation, while perhaps not completely typical, may be of use to those institutions contemplating a change in their organizational structure.

Chronic staffing shortages (where have we heard that before), changing services and the

receipt of funding for an addition to the main library were the factors that led to two library-wide studies: the Realignment Task Force (RAF) and the Rethinking Reference Task Force (RRTF), with the objective of developing ways to provide more efficient service to its users. A number of recommendations from these studies focused on Government Documents Services by calling for integration of the department's technical services functions with the various units in the Technical Services Division and moving the reference service, instruction and collection development into the Public Service Division.

As a result of these recommendations, the library administration established a Task Force for Mainstreaming Documents Technical Processing, with a charge to create a plan for mainstreaming technical processing to effect improved user access to the large amount of Government information available in the Library's holdings.

Rationale for mainstreaming documents operations included the following: Government information has become available in a greater variety of formats and sources; there is a greater commitment of the librarians' time to collection management, user education and reference service; reference service time commitment is manifested in providing user assistance for accessing and interpreting the wide variety of databases (with a variety of software) available on the Web and on CD-ROMs. In addition, the librarians were providing users with very specialized services,

such as electronic maps, geographic information systems (GIS) and others, which were demanding more and more of the librarians' time. The Congressional directive to GPO to convert the depository program to one that disseminates more information in electronic format contributed to the significant increase in public service provided by departmental staff.

With the Libraries' commitment to more of a unified access to its collections and its load of the GPO/Marcive tapes of post-1976 records into CSUL's online catalog, integrating documents technical services activities into the general Technical Services units became quite viable. CSUL's migration to a new OPAC (INNOPAC) in 1996 indicated that it might be an appropriate time to automate the Government serials records and close the shelflist because of the online catalog's (locally called SAGE) ability to provide an accurate automated shelflist. Staff felt that mainstreaming would lead to greater consistencies in processing. Integration of technical processing would enable Cataloging Services to streamline its workflow in order to more efficiently integrate the Libraries' goal of total integration of pre-1976 depository and non-depository Federal publications bibliographic data with the general library materials accessed through SAGE.

The planning of CSUL's new library addition also influenced staff in its decisionmaking. The addition was designed to provide for a unified technical services division, which separated it from reference services by one floor. Public services areas were designed to combine separate science/technology, social sciences/humanities and Government documents reference areas into a centralized reference point in order to improve user access and interaction.

The Task Force

The Mainstreaming Study Task Force was composed of subject specialists, documents

librarians and staff, the serials librarian and the head of Database Maintenance. The Head of the Documents Department presented a series of sessions on the policies, procedures and workflows of the department and reviewed its organizational structure. At the time of the study, staff consisted of four librarians (including two temporary half-time librarians), four support staff and student assistants.

The Task Force analyzed workflows and routines. Position development questionnaires completed by each classified staff member were reviewed in detail to identify the technical services tasks performed by each and the estimated time assigned to each task. Technical processing duties of librarians and student assistants were also reviewed to determine how each could fit into general technical services units. Tasks were prioritized and time lines were discussed. Requirements for supervisory levels and reporting lines were reviewed, as were the impacts of potential changes in existing units.

Staffing and Workload Review

For a period of years, the Department was unable to perform all of its mandated tasks at a satisfactory level, which contributed to significant processing and maintenance backlog. This situation existed in large part because over the years the Department was assigned or assumed responsibility for a number of new initiatives which were not always adequately staffed as these initiatives grew.

These tasks are common to many documents depository units in research universities. They included the following: the Library's map collection was consolidated and transferred to the Documents Department; the decision to bring the collection up to acceptable state and national standards resulted in a dramatic increase in the number of depository selections; in the number of maps purchased and received with a concurrent increase in the amount of time required to process, shelve,

and maintain bibliographic records; and an increase in the need for map reference and location assistance. CSUL's participation in the ARL/GIS Literacy Project required a significant additional time commitment by the librarian responsible for the map collection. This commitment requires a significant, continuous amount of training to provide user assistance for GIS activities.

Assumption of the supervision and management of the microtext collection and services required a significant time commitment of departmental staff. Budget cuts eliminated a full-time staff member; the department's Library Technician II had to spend some 30% of her time in supervising the microtext area.

Designation of CSUL as a full depository for State of Colorado publications added to the Department's responsibilities and workload. Although a librarian was assigned responsibility for the collection, there was a chronic shortage of support staff to process new and retrospective receipts.

Load of the Marcive tapes into SAGE necessitated a commitment to ongoing online bibliographic and item record maintenance, as well as quality control of the Marcive loads. At the time of the Task Force study, few of the records of the post-1976 documents had barcoded linked holdings records; serials holdings records had been created for approximately one-half of the active Federal depository periodical titles and input into SAGE; bibliographic and item records existed for selected State of Colorado publications. Concurrently with the initial Marcive load, the department initiated retrospective conversion of bibliographic records of pre-1976 depository and non-depository titles. Part of these tasks were assumed by departmental support staff, in addition to maintaining manual check-in records.

The Marcive load increased the circulation of Government publications by some 253

percent; the ever increasing amount of Government information becoming available in electronic formats and the continual loading of Marcive tapes increased the amount of reference service by some 207 percent. In order to meet this increased demand, documents reference hours were increased to nearly the same number of hours that were provided by the Science/Technology and Social Sciences/Humanities reference desks (besides the documents librarians, four graduate students were hired to provide evening and weekend service).

Although these new services and the substantive amount of database maintenance were performed with some new staffing, such staffing remained inadequate for technical services functions; instead, more staffing continued to be assigned to public services to cope with the ever-increasing user demands from both on-campus users and distance-learners. Clearly, it was necessary to continue to achieve greater efficiencies in processing and bibliographic access to the collection.

Recommendations of the Task Force

The Task Force recommended that mainstreaming be done in phases to accommodate processing priorities, availability of supervisory staff from new reporting units to train the Documents processing staff, and to coordinate move of staff with completion of new Technical Services facilities.

The first operation recommended for mainstreaming was database maintenance. After approval, a new job description was prepared for a Government documents database maintenance position in the Database Maintenance Unit (DBM) of Cataloging Services, and in June, 1995, a Documents staff member was transferred to DBM and training was initiated. Subsequently, cleanup and DBM activities began for online records: linking of circulation records to their bibliographic records; updating classification numbers on bibliographic records; correcting

typographical mistakes on the records; adding contents notes to the records; eliminating duplicate records; making location changes and updating of the item records; modifying the bibliographic records as needed; and initiating quality control and cleanup of problems resulting from duplicate barcodes in the Marcive loads.

In March of 1997, DBM began to load Marcive Shipping List Service (SLS) records into SAGE. This enabled the department to begin to close the documents shelflist, and made available to users a brief record for new depository titles upon receipt. DBM assigned part of one additional position to cope with the resulting increase in bibliographic maintenance and quality control.

The second phase of mainstreaming was the transfer of acquisitions functions to the Acquisitions Department. Purchased documents had always been ordered through Acquisitions; all orders for non-depository gift items were assimilated in the Acquisitions workflow. Collection development activities remain the responsibility of the documents librarians. This phase was originally scheduled for July 1997, but was delayed until October because of the usual delays in completing the consolidated technical services area and because the Library sustained on July 28 what is considered to be the worst flood ever to strike an academic library.

The processing of Government serials was concurrently transferred to the Serials Unit of the Acquisitions Department. Documents Processing Unit staff were trained by the serials librarian to convert the serials records in the manual shelflist to SAGE. As soon as all current serials records are converted and receipts are routinely recorded in SAGE, the manual shelflist for these records will be closed. Other routine processing, including all remaining manual operations, will be performed by the Documents Processing Unit staff under the direction of the serials librarian. The documents librarians continue to be

responsible for liaison with Federal and state depository entities.

Conclusion

Institutions contemplating mainstreaming technical services functions should carefully study the advantages and disadvantages of retaining processing functions within the documents unit. If the study identifies elements of processing that could result in greater efficiencies in terms of staff utilization, processing turnaround time and increased accuracy of records by merging processing functions with general technical services processing, then mainstreaming should be seriously considered.

At Colorado State, staff have observed the following benefits of mainstreaming technical services operations: there is greater consistency in maintaining local standards for general library materials records and those for Government documents; on-time quality control/cleanup of records enables the user to more easily rely upon the online catalog as the source for correct holdings information; modification and loading of SLS records allow immediate user access to records of newly received titles; maintenance of Government documents records is done concurrently with general library records; and closure of the manual shelflist is on schedule.

Documents librarians have been able to devote considerably more time and effort to collection development (necessary to acquire at least a portion of the estimated 50 percent of Government imprints considered fugitive), to electronic and traditional reference assistance and to user education and outreach. They continue to interact closely with technical services units assigned to process documents by being involved in training activities and in reviewing all materials received for proper routing and disposition.

The mainstreaming of documents technical processing will be reviewed and evaluated

after one year to ascertain its effectiveness; however, our experience has shown that it is quite successful in meeting its objectives of better staff utilization and more efficient processing of materials.

[An amended version of this presentation entitled "Mainstreaming Government Documents Technical Processing: the Colorado State Experience: (jointly authored with Nora S. Copeland) appears in *Colorado Libraries*, 24:5-7, Spring, 1998.]

Public Access to Government Information

Deborah Klein
Bureau of Labor Statistics
Washington, DC

Rather than talk about specific new products from the Bureau of Labor Statistics (BLS), I would like to use my time today to discuss my views on my role in the process of disseminating BLS information and how it interfaces with the role of the FDLP. Let me stress that I am not speaking for the administration, or even for the statistical agencies as a whole. I am planning to tell you how I view these issues, and how the situation looks from my perspective. I think the value of these meetings is the opportunity they provide to broaden our understanding. I am speaking as someone with the responsibility for the publishing and information dissemination at one statistical agency and as a person who firmly believes in the importance of disseminating Government information widely to users along with assistance in understanding and using the information that their Government collected and developed.

BLS is an agency with a long history of reporting on the studies it conducted; the first annual reports of the Commissioner of Labor were published in the 1880's.

In the course of carrying out its mission, BLS—like other Federal agencies—develops, collects, and distributes information. To whom does this information belong? In my view, the public paid for it with their tax dollars and the producing agency developed and understands its properties. Attempts to improve access to Government information and to ensure accountability need to deal with this reality as well as the current and future technological possibilities. This point is particularly important to me, and much that I have read on

this subject seems to ignore the role of the producing organization.

Criteria for Information Access

Many groups have enumerated basic principles of information access. One set of principles was developed by the National Commission on Libraries and Information Science (NCLIS):

- The public has the right of access to Government information.
- The Government has an obligation to disseminate and provide broad public access to its information.
- The Government has an obligation to guarantee the authenticity and integrity of its information.
- The Government has an obligation to preserve its information.
- Government information created or compiled by Government employees or at Government expense should remain in the public domain.

http://library.berkeley.edu/GODORT/gpo_prin.html

Current Challenges

Among the current challenges to the existing system are:

- the vast increase in Government information;

- the emergence of new forms of information, particularly electronic;
- the impact of tightened budgetary constraints;
- the emergence of private sector information providers; and
- the changing views about the proper roles of the legislative and executive branches in this arena, as well as changing views on the public's right to Government information.

The emergence of low-cost printing technology coupled with the availability of information in electronic form has given Government agencies improved ability to reach the public without using either GPO or the FDLP. It has also expanded the explosive volume of Government information. At the same time the public has become both more demanding in its quest for Government information, and more sophisticated in its use.

Moreover, Government concern over cost control has shifted from paper production to applications of technology for electronic production and distribution. At the same time, I understand that participating FDLP libraries have serious and legitimate concerns with costs for cataloguing, provision of public access, and storage.

The 1995 Paperwork Reduction Act "reaffirms that dissemination applies to all publicly-available agency information, regardless of format." It also mandates that "agencies develop Government information locator services (GILS), and requires the integration of access and dissemination planning into life-cycle management."

The February 1996 revision to OMB Circular A-130, which implemented the 1995 PRA, requires that agencies should provide information about the nature of their

information resources and how the public may gain access to them. Further, agencies are required to take advantage of as many dissemination channels as possible in recognition that information reaches the public through many secondary sources. The role of newspapers and other private publication vehicles is recognized, as well as information specialists, and database providers. This approach reflects positions detailed in the recommendations of the National Performance Review, which supported executive branch responsibility for printing and the development of agency locators for public access to Federal information.

Statistical data

Electronic access is particularly important in the statistical area because users are becoming more sophisticated and want more than just published tables. They want the data in a form that they can put in spreadsheets and statistical formulas. This suggests that the solution is not to restrict the Federal agencies from making their data available electronically, but rather to improve the ability of the depository libraries to handle material in this format.

This will become even more important in the future because the statistical agencies are engaged in activities to improve the overall information infrastructure. Some of the directions in which we are heading include the development of better tools for information finding, extraction, and reuse. In these activities, we are partnering with the library and information service community that has long been a leader in this field.

Our goal is to increase statistical literacy and the ability of the public to transform information into knowledge. To accomplish this we are working to link metadata – by which we mean information about a survey and the information it provides – to the actual data from a survey. This would permit users to find definitions, reference periods, survey size, and other pertinent facts that can help them

evaluate the relevance of the data to their objective. Again, these are all areas in which the library community should be a valuable resource.

Should Dissemination be Centralized?

The GPO-FDLP model envisions a system in which all Government information goes through GPO to Federal depository libraries. Viewed from the user perspective, those who want information go to their local public or university library, if it happens to be a depository library it would have the information needed, if not it would contact the regional depository library for the appropriate material.

A more decentralized approach, such as that underlying the procedures described in OMB Circular A-130, relies on information producing agencies to select appropriate means of access, balancing the usefulness of the information to the public against the cost of distribution. This approach recognizes that information reaches the public in many ways: a news release may only be sent to a mailing list of 1,000, but if the information is picked up on the network evening news, it becomes available to millions. This is the rationale behind locator systems, a recognition that all information does not have to go directly between the developer of the information and the end user.

To some extent the current FDLP centralizes access to Federal information in distributed locations. Centralized access is the cost determinant in today's information-demanding society, whereas centralized publication and distribution was the cost determinant a century ago. Accountability for access and preservation of information must also be assigned.

Locator Models

In theory, the major advantage of a centralized model of information dissemination is ease for

the end user. The user could find all Government information at one location. A major advantage of a decentralized model is that information would be provided in the context of related information from providers who best understood the properties of the material.

In reality, neither of the extreme versions of the two models would be realistic. There is no way that every piece of Government information could be collected in one place, nor is it realistic to expect the public to search every possible location for a specific piece of information.

One strategy that, at least, some producers of Government information are pursuing is the development of locator systems. A prime example is in the area of Federal statistics. The United States has a decentralized statistical system in which statistical agencies are generally located in a parent agency responsible for the overall topic (e.g., agricultural statistics in the Department of Agriculture, education statistics in the Department of Education, labor statistics in the Department of Labor).

Because of this decentralization, there are more than 70 agencies that produce statistics that are of interest to the public. Moreover, many of the questions that the public wants answered require information from multiple sources.

In order to improve public access, the statistical agencies have developed a single Web site on the Internet (FedStats) that organizes and provides access to the entire range of Government statistics while leaving the individual agencies responsible for maintaining the data and ensuring their accuracy <<http://www.fedstats.gov/>> .

The user can obtain Government information without having to know which agency produces it by using a table of contents, a keyword search, a listing of subject matter

contacts, or a directory of statistical programs. The Web site also includes links to statistical policy working papers, statistical news releases, and a clickable map to identify regional information.

This approach is consistent with the broader GILS (Government Information Locator Service), which has been defined as a decentralized collection of locators and associated information services used by the public either directly or indirectly or through intermediaries to find information. The developers of GILS envision the utilization of a standard syntax for records describing Government documents that can be organized for access.

The FedStats home page has proven to be a popular site, and it has gotten favorable write-ups in the press. (Paul Bugg of OMB will be discussing the FedStats site at the conference tomorrow.)

Because many users of statistics do know which agency has the data they want, more of them go directly to the agency sites than to FedStats. Thus, in February (a short month) there were 300,000 visits to the BLS Web site, and nearly 200,000 distinct hosts serviced. A visit consists of a series of consecutive views of a Web site by the same user. You need to multiply that figure by about 20 to get the approximate number of hits (6.5 million for the BLS site alone in February)—the statistic most often quoted to judge a site's popularity. People stayed at the BLS site for an average of more than 7 minutes, they looked at about 8 pages per visit, and they downloaded many many megabytes of data. My understanding is that the Census site is getting around three times that amount of traffic and other Government sites also are recording large and increasing numbers of visits.

I cite these numbers to show that electronic dissemination is an important and useful way for Federal agencies to distribute their information. It is also cost effective, because

the marginal cost of each additional user is virtually zero. Without minimizing the importance of depository libraries, the most recent statistics I've seen show that there are less than a million customer assistance events per month on all subjects in all depository libraries combined.

While I am comfortable with the progress we are making on disseminating statistical data, I am less sanguine about the situation with respect to preservation and archiving. BLS has not yet completely replaced any print publications with electronic materials, and I hope we never will. But new information, information that would never before have made publicly available, is now being put up on the Internet. This is to the public good in the short run, but we have not fully resolved all of the issues involved in ensuring that this information is archived. Our goal should be to harness the technology that gave us the ability to disseminate data more broadly to insure that the functions of preserving and archiving information also are achieved.

Also, in the broad area of archiving is the question about how to preserve all the print material. BLS has paper documents that are more than 100 years old, and we need to preserve them for future generations. As resources permit, our plan is to scan them into both ASCII and PDF files, so that they can be searched and loaded into databases, while bibliographic control can be maintained and we will be able to preserve the authenticity of the specific data.

While there are many views on these issues, it isn't a question of the good guys versus the bad guys. I believe that all of the players wish to improve public access to information. There are serious issues about ensuring that all users have access to information, about ensuring that users can find out that the information exists so that they can access it, and about ensuring that there be permanent access to this information. The disagreements largely center on determining the best methods to achieve these

goals, and open discussion is the best way to reach a consensus that will work. I look forward to continuing this dialog with you.

US NonProfit Gateway

<http://www.nonprofit.gov>

Thomas Freebairn
Communications Catalyst
Washington, DC

1. Introduction

Thank you for your interest in Federal interagency Web sites.

I'll be describing the US NonProfit Gateway, a one-stop Web site and network, that serves as an initial starting point for nonprofit organizations that wish to access Federal information of particular interest to them. For nonprofits this might mean grant announcements, or new regulations, or information about the specific field that they serve, whether it is health care, or the environment, or community development, or something else.

First though, a disclaimer. I am a volunteer, based in a nonprofit organization, so I don't speak officially for the White House or for any of the other agency partners that are responsible for posting the final content. However, I've been closely involved with the project from its earliest planning, and have participated during all its many stages of development up until the present.

I will describe the NonProfit Gateway: its benefits as well as its shortcomings.

I will also ask for your assistance: to review and send comments about how to improve the site for your patrons; and to help us identify best practices for classifying the information.

2. Some background about nonprofits

Almost everyone has been associated with nonprofits in some way in receiving or giving services. Or, with most people, during their lifetimes they have done both.

When I was growing up I was a member of the Boy Scouts. And in college I remember buying a winter coat from the Hadassah thrift store. And when my mother died, we donated her furniture to a local shelter for homeless women.

Maybe you volunteer or donate to local charities. Or support a local orchestra, or choral group, or dance company, or soup kitchen.

Formally, the term nonprofit includes more than one million separate organizations, large and small, that have registered for tax benefits from the IRS. But in the broader sense of social and civic participation, the term nonprofit, in spirit, also includes all sorts of informal responses to local needs, such as natural disaster relief, or neighborhood watch safety programs, or food or clothing drives: community response to obvious needs.

It includes everything from the Girl Scouts, to the YMCA and YWCA, Goodwill and the Salvation Army, the Red Cross, the National Education Association, and local performance groups, community centers, and volunteer fire departments, and of course the American

Library Association and many other professional associations you might belong to.

It also includes policy and research centers that closely track and review Government performance, provide an early warning system for potential problems, and offer suggestions for possible solutions.

Needless to say, libraries are an exceptionally important potential resource for all these groups, so I'm delighted to offer the NonProfit Gateway as another tool for you to use.

3. So, where is all the Government information these nonprofits need?

Virtually every Federal department, bureau, administration, agency, office, or project has at least some information that nonprofits need.

We knew much of it would be at HHS, and Labor, and Education, and HUD, and of course the IRS, which decides on the tax categories for nonprofits.

But there were so many surprises that we finally concluded that the information was everywhere. For example, the Department of Defense, which we hadn't expected would be a major participant, was actually one of the earliest and most active supporters. Why? They contribute surplus equipment to nonprofits, make their facilities available, and work actively in communities where their bases, and the families of their service personnel, are located.

4. How did the White House respond?

Basically, the White House began by reviewing the US Business Advisor Web site which Vice President Gore's Government reinvention team developed and concluded that they could probably do an even better job for nonprofits, now that they had a model to build from.

It activated its forum of "nonprofit liaison officers" who were already based in agencies throughout the Administration. It encouraged them to recruit technical and content experts from within their agencies to volunteer for a Governmentwide Task Force to develop a "one-stop" Web site for nonprofits. And, it convened a few hundred nonprofit representatives in large and small groups, and individually, to learn what information they wanted and to collect examples of the Web sites nonprofits used most often.

It turned out that the challenge was much larger than anyone expected. It became a microcosm of all the larger information issues facing the Federal Government. We needed to respond to virtually every issue and point of view, and do it openly and fairly.

5. The resulting US NonProfit Gateway

The Task Force quickly realized that nonprofits, collectively, wanted virtually every bit of information that the Federal Government produced. They wanted to be able to search it easily. And they wanted to be able to compare and contrast information across agencies.

This probably sounds familiar to most of you: everything for everyone, but with very limited resources.

The Task Force also realized that they, as a centrally-located volunteer Task Force, couldn't guarantee that they could collect and post information on a timely basis, or sustain the service once the Task Force disbanded.

Basic model

The solution was to jointly design a central site and then to assign each participating agency to create its own local nonprofit site, which was to be built on their own local information so that they could assemble locally. The result is a central site (which is hosted by GSA, the General Services Administration) plus a

network of 15 local sites. These local sites have a core of common elements – such as grants, directories, and volunteer opportunities – and then an open-ended challenge to find and post whatever else they think might be useful.

6. Demonstration of key screens

NonProfit Gateway home page

Includes a basic directory of key Federal resources, direct links to all the 15 participating local sites, a search function, and links to instructions, comments, etc.

Chart of Cabinet departments screen

Includes a listing of all participating Departments, each with options for additional locations within each Department (its home page, nonprofit links page, GILS, and their local search engine.

Example of a local Department nonprofit page: HUD, Housing and Urban Development

This includes all the links within HUD that might be of interest to nonprofits.

Example of one of HUD's connections from this nonprofit page – "Funding"

This includes a full range of information, including access to its GIS mapping service.

Key Information sites screen

White House, GPO Access, FedWorld, CFDA, etc.

GPO Access screen

Direct connection to GPO Access and all its resources, including search function.

GOVBOT screen

Developed by The Center for Intelligent Information Retrieval at the University of Massachusetts. Currently searching more than 625,000 <gov> and <mil> Web pages.

7. How can libraries help?

How can the NonProfit Gateway assist your Library patrons? Send us your own professional critiques of the site.

8. Comments to:

<http://www.nonprofit.gov>

Visit the site and click on the "comments" button at the bottom of any page.

DOE Update: Embracing Technology to Increase Impact

Walter L. Warnick
Department of Energy
Oak Ridge, TN

Good afternoon. It is an honor for me to be invited here today. I will give a brief overview of the Department of Energy's Office of Scientific and Technical Information and the exciting new activities that we are working on to make the Department's scientific and technical information (STI) available.

The Department of Energy as a whole is very much in the information business. Information is the principal product of the Department's R&D programs, and R&D is the bulk of what DOE does now.

The mission of the Department of Energy (DOE) Office of Scientific and Technical Information (OSTI), operating from Oak Ridge, Tennessee, for 51 years, is to collect, preserve, and disseminate STI generated and acquired by DOE programs. For approximately the last 20 years, we have had a partnership with the Government Printing Office (GPO). This partnership allowed us to provide the public DOE research literature in microfiche format via the Federal Depository Library Program. Many of your libraries house DOE report collections.

Today, OSTI is challenged with new expectations and sharply reduced budgets. We no longer have the luxury to continue both paper and electronic collection and dissemination. We are urging both the DOE organizations that generate and submit research reports and the customers who use DOE information to become automated as fast

as possible. We are making significant progress.

Information Age technology offers us the chance to do a better job of ensuring overall stewardship and accessibility of STI. Just as the Industrial Revolution extended the reach of human muscle, the Information Age is extending the reach of human intellect. OSTI has aggressively moved from magnetic tapes, paper and microfiche format report processing and distribution into the electronic information age. We can now make STI available quicker, cheaper, more completely, and more conveniently. Recent initiatives have resulted in several systems that provide public access to DOE STI. I want to briefly mention four of those to you today.

First is EnergyFiles, our new Web-based Energy Science and Technology virtual library <<http://www.doe.gov/EnergyFiles>>. It currently consists of over 100 DOE and non-DOE core collections. It will evolve into the primary umbrella under which information collections, electronic journals and preprints, engineering standards, database and document delivery services, and regulatory, funding and reference material are made available at the desk top, both for DOE researchers and the public user community.

EnergyFiles sets the stage for a digital National Library of Energy Science and Technology. This National Library would link energy resources locally, across the country, and internationally. It will be a virtual facility

accessible at any time from anywhere to provide a foundation for education, research and economic growth to a variety of users. It will be a library with wings, not branches, as branches imply duplication. To actually establish a National Library requires Administration and Congressional action. Many hurdles remain, but OSTI is addressing the hurdles in a multi-year endeavor to build on the foundation that has already been laid.

Second, is the DOE Research and Development Project Summaries <<http://www.doe.gov/rnd/dbhome.html>>. It describes over 12,000 R&D projects currently ongoing within the DOE. This application was developed by the Office of Scientific and Technical Information specifically to educate and inform the general public of R&D activities and receives over 800 accesses per day.

Third, is the OpenNet Web Site. References to 350,000 recently declassified reports are now available electronically via the Web as a result of the Department's ongoing Openness Initiative.

Finally, what I am especially excited about today is the fourth system, again a component of EnergyFiles, the DOE Information Bridge full-text Web site. The DOE Information Bridge is available through the GPO Access Web site beginning today. Here is the URL <<http://www.doe.gov/bridge>>. As a result of a joint effort between OSTI and GPO, anyone in the world that has Internet access can now get the results of DOE R&D in physics, chemistry, materials, biology, environmental cleanup, energy technologies, and other topics immediately, at their desktop, when and where it is needed. Public access to the DOE Information Bridge Web site via the GPO Access service is a cooperative effort funded by GPO and DOE. This new full-text Web site, free to anyone, currently offers over 1.4 million pages of searchable text from DOE sponsored research report literature processed

and distributed by DOE since January 1996 and additional reports are added each day.

Here's what it looks like! You will be pleased to know that there are no password or registration requirements! The features you will see include the capability to access, locate, search, and download full-text and/or bibliographic information electronically. Three formats, PDF, GIF, and TIFF are available for viewing the full-text page images, and one format PDF (image only) is available for immediately downloading full-text documents. An "Easy Search" offers a quick way to find items of interest. This option is similar to many popular Internet search engines. The "Advanced Search" option includes the ability to combine numerous fields to precisely describe what is wanted, to use Boolean logic at two different levels of the search, and the option to select from extensive pick lists as a search is conducted.

Senior leaders of DOE consider this system to be a significant step in our effort to respond to the new needs and requirements of the public and the research communities, to provide tools to efficiently and effectively leverage DOE's investment in research and development, and to respond to the Clinton Administration's challenge to move Federal programs and activities into the age of technology and information. This OSTI developed service represents a breakthrough in reducing the cost of obtaining and in expanding public access to results of DOE's annual 6 billion dollar research program. In addition, this is a major step in GPO's transition to a more electronic Federal Depository Library Program.

We believe that the DOE Information Bridge will have a significant effect on users and even on researchers submitting the research reports. Consider for a moment what the GPO agreement means for researchers. Their world is changing, too. While researchers have long had to produce their reports, many of them, especially on the basic research side of DOE, did not consider their reports as a primary

mechanism for getting their information out. They looked upon DOE reports as an unwelcome burden. However, effective today, because of the Information Bridge, researchers' reports will be instantaneously accessible and searchable by 40 to 60 million people all across the country and the more millions of people who visit libraries—everyone who has Internet access. I think that full-text availability in a quick, convenient, no-cost, and searchable format like the Information Bridge will cause a change in attitude among researchers about their reports, as the Information Bridge becomes widely known.

Please attend the 8:30 debut, presentation, and demonstration of the DOE Information Bridge tomorrow morning in the James Room. We are excited about these new services and our plans for the future. We look forward to many more opportunities to bring timely and useful STI to the desktop through new information technologies and practices as we continue to build upon our current products and services and focus on the development of a National Library of Energy Science and Technology. And, we solicit your advice in reaching these goals and tackling the challenges that we face.

Selected Models of Depository Management

John W. Graham

Public Library of Cincinnati & Hamilton County
Cincinnati, OH

Introduction

The Public Documents & Patents Department at the Public Library of Cincinnati & Hamilton County was established in July, 1997. Located in a new main library addition in downtown Cincinnati, the department centralizes the public library's collection of depository maps, documents, and patent and trademark collections. Staff was assigned from a variety of library branches and departments. Documents are checked in by hand, and the collection is not on the library's OPAC system. This presentation discusses the reasons the library created this new department, goals for its first year of operation, and lessons learned from the experience.

The Public Library of Cincinnati & Hamilton County has been a Federal depository since 1884. The current selection rate is quite high, at 95%. The library is also one of the original 21 Patent & Trademark Depository libraries, receiving its initial designation in 1871. The department's collection is composed solely of depository items, although a small budget is available to purchase commercially produced indexes and standard reference sources.

Staffing levels for the new department are very generous. We have five full-time librarians, three full-time library assistants, two part-time library assistants, one full-time, and four part-time shelvers. Total staff is 15 people, at 12 FTE. Some staff were interviewed and hired for their positions; however, most staff were transferred from various library departments which were losing part of this collection.

Why Did We Do It?

The clear depository trend is scaling back staff, resources, and space allotted to documents. Why did Cincinnati Public buck this trend? Several clear problems gave rise to a closer look at documents operations. The first step was an internal Public Documents Committee composed of public and technical service staff who handle documents on a day-to-day basis. Among the chief problems in our former documents setting were:

- Documents backlog and processing problems mounted. Staff in various library departments were responsible for this large collection.
- Lack of hands-on supervision. Authority for documents collections were removed from any hands-on processing activities.
- Check-in of documents took place in the technical services unit, two floors removed from the collection and public service staff. Public service had no ready access to records of what items were received, and when they were checked in. Access was completely off-limits during nights and weekends.
- Completion of a \$40-million renovation and expansion gave the potential for a newly created department.
- Staff received almost no training in processing documents. Each department established its own procedures.

- Documents were drastically under-used. Almost no usage was recorded outside of specific areas, such as topo maps, census data, or the Patent & Trademark Depository collection.

Management Priorities

Training was a top priority. Most staff had never worked with public documents before starting in the department. Even staff with some experience had not used all parts of the collection. No one had worked with the Patents, for example. This was especially important, since the entire staff was assigned to start in the department the same day it opened. This gave me the odd experience of giving the staff a one-hour tour of our department and their work area, and declaring them fully trained for public service work!

Do sweat the small stuff! As documents librarians know, the routine is composed of many decisions of the most minute nature. To bind or not? How to handle a new item? Do we have the software to work with a new CD-ROM? We had to work very hard to get our house in order. That means undoing many mistakes and processing errors from the past. So sweating the small stuff of hundreds of small decisions has paved the way for a collection that's probably in the best shape it has been for decades. And this process continues, with a large stacks shifting project underway at this moment.

Publicity, Publicity, Publicity. It has been a constant goal to let people know what we have, where we are, and what we can do. This applies not only to the public (our patrons) but our fellow staff as well. (Don't overlook fellow staff; many are unsure what documents are and what we actually do.) We organized daily, then weekly, and now finally monthly tours for the public. We had articles in the library's monthly newsletter. We've also had myself and other librarians speak at inventors' groups to promote our patent collection, and we have done the library's first

staff-produced half-day program for inventors. We also pioneered the library's first series of public Internet training sessions, and our departmental Web page is the library's most complete.

Lessons Learned

- Several truths have been discovered so far. Some were expected and confirmed; others have been more of a surprise. First of all, we've learned the notion that separate is definitely not equal. When you're viewed as a special collection, you get placed out of the loop by many fellow staff, patrons, and even the administration. Not having the collection on our OPAC only magnifies this feeling. Promotion, both internal and external, is the key to overcoming this problem. It also helps that my staff, and myself, are involved in many shared library activities, such as giving tours of our new facility.
- Secondly, keep the Administration happy and informed. Documents are a mystery to most non-documents professionals. We were lucky that my immediate boss had been a documents librarian earlier in his career. The mere presence of a new documents department elevates documents to an equal place at the table with other departments—and subjects. Give the Administration information on what you're doing, while trying to create a sense of excitement about the documents collection.
- Also, match their goals with your strengths. Program attendance is important, and we've had over two dozen tours, workshops, and public programs. We organized the library's first-ever patents program for the public, and it drew over 60 registrations. Circulation is also important, and we do allow "special charge," hand-charged items to go out to boost these numbers. Working toward an

automated system will help in this regard, too.

- Make the collection accessible. This means either keep it an organic part of subject reference—or have it cataloged in its own right in a free-standing department. Non-organic and non-cataloged is not the way to go.
- Centralized handling and authority for a documents collection is imperative. When you separate the processing of these items from the ability to make decisions, problems result. Centralized authority is not viewed here as a rigid command-and-control scenario. Rather it means the people who see problems or have ideas have the authority to act, decide, and plan.
- Capitalize on your strengths. Our Patent & Trademark Depository collection is among the oldest and most complete in the country. Furthermore, the PTO staff are very receptive to helping with programs and publicity. This has been helpful in our launching of public patent searching programs, the first in the library's history.

Models of Depository Management: From Archive to Access

Nan Myers

Wichita State University
Wichita, KS

The subtitle “From Archive to Access” describes a deliberate process we have undertaken at Wichita State University’s (WSU) Library. Since 1994, we have very deliberately been moving our Government depository collection out of archival repose towards active use.

[slide 1]

Mission Statement

“The mission is to provide access to and promote the usage of government information, and to support the academic curriculum, scholarship and research needs of the Wichita State University community, as well as the information needs of the citizens of the Fourth Congressional District of Kansas. To this end, the library actively seeks ways to enhance access to government information.”

This is the story of a mission underwritten by the administration of our library and effected by teamwork and inter-departmental cooperation. The mission statement of our Government documents policy is on the screen. I won’t read it to you, but I will point out the phrases “provide access to,” “promote usage,” and “actively seeks ways to enhance access to Government information.”

[slide 2]

Background

- Depository 0204A
- Established 1903
- Kansas Congressional District 4

- About Wichita State University
- Prominent Programs
- Patent Depository Since 1991

Just a little background about the depository at WSU, which was established in 1903. Wichita State is the only metropolitan university in the Kansas Regents’ system of six universities and has about 14,000 students. WSU’s student profile of both traditional and non-traditional students reflects many educational needs in a sizeable city. The average student age is 27. In addition to our main campus, we have three off-site centers, and many programs are driven by local industry. Prominent programs are in engineering, health professions, business, economics, and fine arts. The city of Wichita itself has an MSA of close to 500,000 people and is the largest city in Kansas. The WSU library has also been a Patent Depository since 1991 and shares a service point on the first floor of the library with Government Documents.

[slide 3]

Scope of the Program Physical Collection

- Select 57%
- Collection Breakdown
 - 520,000 Paper
 - 225,000 MF
 - 2,000 CDs
 - 20,000 Maps
- Program Support

As you can see on the screen, the physical collection is sizeable. For many years we collected at the 62% level, but we have been gradually downsizing and are currently at 57%. Notable holdings are for Census, Labor, Congress, Department of the Interior, State Department and the Smithsonian Institution. Teaching areas most served by the collection are in the fields of: administration of justice, anthropology, minority studies, political science, sociology, social work, economics, aeronautical engineering, geology, biology and the health professions.

[slide 4]

Scope of the Program Electronic Access

- Catalog Tapeloads
- WebPac & URL Project
- Internet Access & Docs Icons
- WSU is a GPO Access Gateway
- CDs on Networked & Stand-Alone PCs
- Gov't Information home page

Since 1994, we have worked to provide access to online information mandated by the electronic transition.

- Records and holdings are online for both retrospective and new titles.
- A year ago we added the WebPac module to our NOTIS system, allowing hotlinking of URLs in the library's catalog.
- The 58 computer stations in the reference area are Internet accessible and have Adobe Acrobat loaded on them. All documents staff, both in cataloging and public services, have Pentium computers.
- Icons for Government information are well represented on the library's home page.
- Last fall, WSU became a GPO Access Gateway, and the icon for GPO Access is

prominently displayed on our home page. STAT-USA has its own icon.

- CD-ROMS: Five documents CDs and the Marcive CAT-PAC are loaded on a network for easy access. Software for our other CDs are loaded on two stand-alone work stations.
- The Government Information home page provides access to many electronic titles and sites.

[slide 5]

Our Main Assets

- Location, Location, Location
- Library Administrative Support
- Technology
- Staffing
- Long-Range Planning
- Professional Relationships

Our main assets are, first: **Location, location, location!** The Documents collection occupies prime real estate space on the first floor of the library, adjacent to the Reference stacks and computer terminals, and only a few steps from the Reference Desk. We have also retained a Documents Office, which is about 10 steps from the Reference Desk, primarily because we are also a Patent Depository.

I would say that the second asset is a **library administration** which desires to emphasize and promote the documents collection.

Third, **technology**. The administration has for many years invested heavily in state-of-the-art computer equipment and training. We now have three systems support staff, one stationed in Reference and two in Technical Services. In addition, there is a graduate assistant in Reference responsible for evaluating, loading and upgrading software.

I will address the **staffing** component in some depth shortly, but we have satisfactory

resources in staffing, with the flexibility in job descriptions to roll with the punches. In addition, many of our staff are long-term employees.

Long-Range Planning Initiatives have given us **focus and goals**. And, we have been very fortunate in our **professional relationships**: on campus (other departments such as engineering, computer science, the computing center, media resources, and NIAR), statewide and national contacts.

[slide 6]

Administrative Vision for Government Documents

- Increase Visibility
- Increase Access
- Increase Efficiency
- Increase Use

I think the administrative vision for documents combine four directives which are intertwined:

1. to **increase visibility** of documents - this began with the tapeload of over 200,000 cataloging records and has continued
2. to **increase access** to documents - coincides with an overall push to increase electronic resources in reference; but also focuses on an emphasis on more staff training, a commitment to becoming a GPO Access Gateway, a commitment to statewide consortial purchases of such databases as STAT-USA, a potential re-design of the layout of the documents collection, a review of signage, and a resolve to pursue marketing of the documents collection.
3. to **increase efficiency** by mainstreaming services within the library
4. to **increase use** by the dedication to making 1-3 happen.

[slide 7]

Traditional Model for Documents

- A Special Collection
- SuDocs: Separately Classed Means Separately Shelved
- Separate Paper Trail and Inspection
- Need for a Gatekeeper

As you well know, the traditional model for a Documents collection is that of a Special Collection. The separateness of Documents is reinforced by:

1. The Superintendent of Documents classification system. Separately classed means separately shelved.
2. The traditional requirement for special attention and treatment. Depositories must account for the selection, receipt and de-selection of items, as well as respond to the mandate to array the collection and the recordkeeping, or shelflisting, for regular inspection (now self-inspection) by the Regional Librarian and Depository Services.
3. The need for a gatekeeper. Lack of user-friendly access to the collection and lack of a broad understanding of documents by the general reference staff mandates that a specialist be on-site to handle documents reference and oversee the collection.

[slide 8]

Initiatives: Archive to Access

- 1994 - Records Tapeload
- 1995 - Mainstreaming Processing
- 1995 - Digitizing the Paper Trail
- 1996 - Downsizing Begins
- 1996 - Two-Librarian Model
- 1997 - GPO Gateway
- 1998 - Data Miner

Since 1994, we have moved away from the traditional archival model towards what I call

an “access model.” The dates of our projects are listed on the slide and I will briefly comment on each step:

[slide 9]

1994 Records Tapeload

- Retro: 200,000+ Records Overnight
- Ongoing: Monthly Tapeloads
- Making It Happen
 - Assembling the Project Team
 - Designing the Workload
 - Database Clean-Up & Holdings
 - Continual Fine-tuning

My first task at WSU was to oversee a tapeload of bibliographic records for the documents collection, both retrospective holdings and currently received items. The “stakeholders” in this project were: the Government Documents, Cataloging and Acquisitions Departments, the Computing Center, and our vendor, Marcive. I was also charged with regularizing cataloging functions in Technical Services.

The Government Documents Project Team was assembled from in-place staff, except for myself. Even so, I was hired to fill a vacant position previously titled Special Projects Cataloger and given the responsibility of Team Leader. No new positions were created.

Since we could not add more staff in Technical Services, we rewrote the job descriptions of five staff to include a documents component and held weekly meetings and training sessions. A staff member from Documents moved into Cataloging half-time for eight months to assist me with both the Cataloging transition and the mainstreaming of processing. Our strategies were to:

1. Use pilot projects to gather information
2. Phase in the gradual reassignment of staff
3. Phase in the workload, which continues to include database cleanup.

[slide 10]

1995 - Mainstreaming Processing

- Eliminate Duplicative Services
- Processing & Cataloging Entwined
- Expediting the Materials Flow
 - Periodicals Pilot Project
 - Training Phased In
 - Staffing Phased In
 - Labeling In-House

To expedite the materials flow and eliminate duplicative services, we moved all mail receipt and processing of documents to Technical Services. Regularizing the documents workload required heavy front-end work, and for a while it doubled the workload in Cataloging. The primary payoff I want is a smooth continuations flow. Since at least 85% of documents can be considered serials, we manage as many titles as possible on serial records.

[slide 11]

1995 to Present: Digitizing the Paper Trail

- Development of GPRD
 - Eliminate Labor-Intensive Tasks
 - Data Warehousing/Data Mining
 - Report Generation
- Documents Data Miner
 - National Collection Management Tool

We developed an in-house relational database which we call GPRD to warehouse the Item File, List of Classes, Inactive/Discontinued Titles, our profile, our Marcive profile, the Kansas Union List, our Claims, Map Holdings, Use Statistics, and even a run of LC subject headings from our documents in the OPAC. Using data mining techniques, we can generate reports which have been especially useful in collection management.

Over the past year, we have worked to create a national utility for collection management, called the Documents Data Miner (DDM),

which has just become a partnership tool with the GPO. DDM is a search engine associating files from four databases: the List of Classes, Item Lister profiles, the Depository Directory, and the Inactive/Discontinued items.

[slide 12]

1996 - Downsizing Begins

- Space Problem
 - 86% Full - Zero Growth Imperative
- Emphasis on Electronic Access
- Collection Management Initiative
 - Weeding & De-Selection Project
- Move to Statewide Cooperative Collecting

In 1996, we were able to begin addressing our serious space problem in the documents stacks, which filled 86% of the space and were growing at 4% a year. No additional library space will be available for at least ten years. Off-site storage and compact shelving were not options. Weeding and de-selection were our only options.

At this time, the Collection Development component of Documents was given to the Head of Collection Development. She worked with Documents Librarians and Subject Librarians to produce a sizeable withdrawal list for exchange. We finished withdrawing this list at the end of 1997, freeing half of a range of shelves. Even so, we continue to rely on continual weeding, supersedes and deselection of items to break even on space. We hope that a movement towards statewide cooperative collecting will assist with our space problems.

[slide 13]

1997 - Two-Librarian Model A Two-Year Pilot Project

- Government Documents Librarian
 - Reports to Head/Technical Services
- Government Information Librarian
 - Reports to Head/Reference

With the retirement of our Depository Librarian in June 1996, we rethought the direction of documents leadership. The Government Documents Mission Statement and Policy were rewritten to focus on Government Information.

We now have two professionals providing team-based management for the physical and electronic collection, as well as for the traditional split between technical and public services.

[slide 14]

Government Documents Librarian

- Responsibilities:
 - Reporting Function to the GPO
 - Manage Processing, Database, Cataloging
 - Manage the Physical Collection
 - Promote the "Model"
- Staffing:
 - 1.00 FTE Professional
 - 1.75 FTE Staff (divided among 5 people)
 - Students: 30 hours

I received the title Government Documents Librarian with the responsibilities for:

- Reporting to the GPO
- Managing Technical Services
- Managing the Physical Collection
- Maintaining the "Model"

Staffing: Our staffing breakdown is 1.00 FTE professional, 1.75 FTE classified staff, and 30 student hours. Besides myself, there are 5 people in Technical Services who work a portion of their time on documents, making up the paraprofessional 1.75 FTE.

[slide 15]

Government Information Librarian

- Responsibilities:
 - Public Service (Docs & General Reference)
 - Electronic Government Resources
 - Patents & Trademarks
 - Promotion, Marketing, Training
- Staffing:
 - 1.00 FTE Professional
 - 1.00 FTE Classified Staff
 - Students: 15 hours office, 16 hours shelving

My counterpart is responsible for public services, electronic access, patents and trademarks, and promotion, marketing, and training. She has a full-time classified staff person and 34 student hours split between office and shelving.

[slide 16]

1997 - GPO Access Gateway 1998 - Documents Data Miner

- Support for the GPO's Electronic Transition Initiative
- Support for the GPO's Partnership Program
- National Utility which Supports Our Internal Needs

We have made a decision to support the GPO's electronic transition. In 1997, we became a Gateway for GPO Access. Last week, the GPO announced a new Web tool, the Documents Data Miner, which we have been developing during the past year. This is a partnership between the GPO, WSU and our affiliate organization, NIAR (National Institute for Aviation Research).

[slide 17]

Accomplishments

- Enhanced Access & Increased Use
- Effective Public Services

- Efficient Technical Services
- Embracing the Electronic Transition

By increasing access to and visibility of the documents collection, we have dramatically increased the use of it. Our **external checkout statistics**, which we have kept since 1990, show an overall increase of 284% between 1990 and 1996. More significantly, they increased 520% the first full year we were on line.

Internal statistics for re-shelving between 1990 and 1997 show an increase of 525% in activity. In 1990, we only re-shelved 4,230 pieces. In 1997, we re-shelved 22,035 pieces. (In 1996, we re-shelved 24,565. In 1997 we are probably seeing the impact of URLs in the catalog, CD-ROMs and GPO Access, which are degrading the use of the paper and microfiche formats.)

In addition, we feel good about our public and technical services efforts. And, we are going where we said we would with regard to the electronic transition.

[slide 18]

Challenges

- Communications
- Momentum
- Collection Development
- Administrative Changes

[slide 19]

Prospects

- Shifting the Stacks
- Re-Designing the Documents Layout
- Marketing & Outreach
- Statewide Collection Development
- Celebrate 100 Years in 2003

We have a few tasks which must be addressed:

- Shifting the stacks
- Possibly re-designing the documents layout

We must continually re-address:

- Marketing and Outreach - we can never do enough

We have a political agenda statewide -
collection development

And,

in 2003 we can celebrate 100 years as a
depository library!!

Government Documents as a Special Collection

Coleen Parmer

Bowling Green State University
Bowling Green, OH

Bowling Green State University (BGSU) has a long tradition of special collections. The Music and Sound Recordings Archives and The Popular Culture Library are probably the best known collections and receive national attention. Government Documents has only recently—fall of 1996—moved to special collections.

Special collection department heads report to the Head of Special Collections, a chair position that will rotate every three years. While each collection is unique, we have found a great deal in common, including building research collections and serving users, both internal and external to the university, who have complex research interests. We supervise all aspects of our departments including acquisitions, processing, collection development, reference service, library instruction, resource and staff management, and collection advocacy and promotion.

Special collection heads attend the more or less weekly department heads meetings with the Associate Dean, and the monthly Library and Learning Resources Council meetings conducted by the Dean. We interact directly and regularly with the LLR Dean and participate in helping to set library policy, goals and directions.

As a depository, we find ourselves in a rather unique situation in terms of serving the congressional district. We have, since 1933, served the fifth district. In 1990, however, redistricting split Bowling Green City into two districts: most of the city and county remain in

the Fifth district, but the university now resides in the Ninth. Due to our historical ties with the Fifth, and the fact that most of our surrounding users are from the Fifth, we continue to serve that district. We have extended our service, however, to include the ninth district, since that is the district in which the library officially falls.

Bowling Green State University was established as a teacher training institute in 1910. We offer bachelor through Ph.D. degree programs. We are a mid-sized institution, with approximately 15,000 undergraduates and 2,400 graduate students. Our faculty number about 700.

Libraries and Learning Resources (LLR) consists of Jerome Library, Ogg Science Library, Center for Archival Collections, Instructional Media Services, and Popular Press. LLR also manages the Northwest Regional Book Depository, a storage facility that serves Bowling Green State University, University of Toledo, and The Medical College of Ohio. We hold over 2 million books, and 2 million microforms.

BGSU became a Federal depository in 1933 and an Ohio depository in 1956. We currently select 51%. We have approximately 500,000 volumes and 200,000 microfiche. We have a rich historical collection that includes all the census reports from 1790 to date, most of the Serial Set, with a few gaps, the U.S. Foreign Relations reports, extensive Smithsonian series, the Congressional Globe and Record, and a number of other important historical materials. We receive and process about 1,500

documents each month. Most of the documents are housed in Jerome Library, the main library, but we do send USGS and NLM materials to the Science Library across campus. The Map Library is another main library collection and processes and services depository maps.

We have two full time support staff members and generally eight or nine student assistants, and of course, a full time department head with an MLS. In addition to the documents staff, we get by with a little help from library staff outside the documents department. The maps are under the care of the Map Librarian, and we do a very little initial processing before sending maps along to her. Science staff check USGS materials into the catalog and maintain the documents collection. Catalogers search OCLC and download records for us, while reference librarians provide initial public service for the documents collection.

Documents has a checkered organizational history. In 1975, when I started, Documents was a separate department occupying the fourth floor of the library. There were seven staff members and we did all our own processing and reference. We moved to the first floor in 1984, and, in a move to consolidate service points, we moved under the Information Service Department umbrella in 1986. The documents staff focused on technical processing while the reference department provided public service to the collection from the general reference desk. The documents coordinator worked on the reference desk and participated in the typical activities of reference, as well as supervising the Documents unit and staff. In 1992 we reorganized under Technical Services; the office and staff moved to the second floor; and the reference department continued to provide public service, with assistance from the Documents librarian, to a collection which remained a floor away, on first.

During the four years we were under Technical Services, the Documents staff forged

a strong working relationship with the Technical Services staff; however, daily processing and collection maintenance was hampered by distance from the collection and, more importantly, patrons seeking expert help had difficulty finding us. With the arrival of a new Library Dean, and after four years of experience in the Tech Service model, we were reorganized once again, this time under Special Collections. Part of the reorganization included a plan to move the office back to the first floor and move all the collections, paper, microfiche, and electronic, next to the office. We completed moving the office, CD-ROMs, and microfiche this January.

As I mentioned, we moved the documents office this last January. The documents office now is a roomy space on the first floor near the front door of the library and close to the general reference desk. We are still reveling in the new office which has plenty of room for staff and loads of space including extensive processing shelves—no more tripping over boxes. Our microfiche and CD-ROM cabinets are right outside, and the two dedicated documents public workstations are just outside the office door. Our stacks are still some distance away, at the back of the first floor, but we are getting ready to move that collection next to the office in about three weeks.

The documents office is in a prominent area of the library and readily accessible to our users. We find that we can process and maintain both microfiche and CD collections with greater ease and efficiency now that they are closer. And we are truly looking forward to our main stack collection coming over next to the office. Once this move is accomplished, the documents collection, like the other special collections, will be in one identifiable area with specially trained staff nearby to assist users.

I'd like to talk a little bit about our day to day operations next. Like all depositories, we open and process our shipments each day. Our Library Associate, Mrs. Reynolds,

supervises daily processing. One student assistant works under her direction, opening the boxes, stamping material, and adding SuDoc numbers to the pieces. Mrs. Reynolds maintains records, such as shipping list tallies, item selection profile, rainchecks, and claims. She also processes separate packages, makes changes and corrections, and resolves a wide assortment of problems including missing shipments or shipping lists.

Our student assistants are assigned sections of the collection (i.e. A-C, D-HE, etc.) to shelve, file, and maintain. They shelve and file paper, microfiche, and CDs daily and record in-house use in a statistical module of our online catalog. They also shift, shelf read, and add pamphlet boxes and microfiche index cards. In addition, they perform special tasks such as searching missing documents, barcoding new volumes and microfiche, photocopying replacement materials, typing discard lists, and other duties as assigned.

We use Innovative Interfaces Inc. (III) as our integrated cataloging system, and we participate in the OhioLINK project. OhioLINK is a consortium of 54 technical, college, and university libraries across the state that provide access to a centralized database of the member libraries' holdings. Users can search and borrow material directly from member libraries.

We began cataloging documents in 1987. In general, we send new titles to the Cataloging Department and they download records from OCLC. Our Library Technical Assistant screens new depository materials and enters volumes into the catalog when a record is available. Periodical issues are checked in on the serials check-in module. Continuations, annuals, and multi-volume parts are added to appropriate records. Revisions are generally added to the bibliographic record and superseded issues are pulled and discarded. Sometimes we have to send a record to Cataloging to be edited so that the revision can be entered. New serials and monographs are

sent to the Cataloging Department every Tuesday and most return to us on Thursday. If the record is not in OCLC, cataloging holds and searches for a month. If the piece has still not been cataloged after a month, one of the catalogers enters original cataloging on OCLC. Monographs that return from cataloging are then processed by students: item records are edited and the pieces barcoded. Then they are shelved or filed. Problems are sent to me to resolve, usually involving SuDocs number discrepancies.

We have been working on several retrospective projects over the past six or seven years. We began first by identifying long series that we were still receiving, such as the Statutes at Large and Vital Statistics, and by sending students to pull and link the entire run of volumes. After our current runs were retolinked, we began to create records for important historical sets and to link all those volumes. We also created serial check-in records for periodicals and entered all unbound issues, including a number of microfiche titles such as the FBIS series. And finally, we targeted some pre-1976 monographs such as the Smithsonian bulletins and the HE 5's for cataloging.

In 1995 we downloaded 1976-1986 GPO tapes edited by Auto-Graphics (AG) and have been editing and linking them. This has been a long, painful process and we probably will not finish it for another year or two. Last year we went through our paper hearings and linked them to AG records if possible. If an AG record was not available, we sent these materials to Cataloging. This spring we did the same to our microfiche hearings. It has taken nearly two full semesters, but it is a great relief to say that our all our hearings are cataloged.

It is our goal to enter our entire collection in the online catalog. We continue to systematically review our collection and link material to AG records or send the pieces to be cataloged. It is also an excellent opportunity to review and weed the collection.

We are a bit behind the times in our item maintenance. We still use a paper card file to review selection choices and changes. We do download and print our item selections from GPO monthly instead of relying on the old printout. We have found that this service helps us keep up with changes a little better. Even though our Library Associate combs through the Administrative Notes Technical Supplement and makes the changes reported to our item profile, we still seem to miss a lot of item changes, so the Item Lister is a big help. I begin each April to review our item selections for the annual update. It usually takes several months to get through all the cards. Of course, over the year I make notes of items I want to add or delete in April. Generally we do not delete items in midyear unless they are a problem, such as the Patent discs. After several months of trying to use these, we decided that they were not for us. Since there were so many discs coming in, I deselected as soon as we decided we did not want them.

We are religious in weeding superseded material, since we don't have a lot of space. A careful and thorough review beyond superseded material however, was not done except in certain targeted SuDocs areas, for a number of years. Several things have forced us into better practice. First, we now have a remote storage site where we can send low-use materials. In order to send items to storage, my policy is that they must be cataloged. But cataloging costs a lot of money, so we review all potential storage titles to see if we have an AG record. If we need to catalog it then we think pretty carefully about whether we need the item in our collection.

I am fairly active in library instruction. I partner with other librarians to teach students who will need to use documents as well as other library resources, and I conduct a number of sessions to focus on such documents resources as the census.

In 1986, when the documents department moved under Information Services, we transferred responsibility for documents public service to the main reference staff. Through all the department transformations, this reference model has prevailed—the first point of documents assistance is the general reference desk. I work closely with the Head of Reference to set service policies and to provide ongoing training and review. Users who need further assistance are referred to the documents staff. We have been faced with tough choices in providing reference assistance because we do not have the full time documents staff to cover a separate service desk. This spring, after the office move to the first floor, we decided to try supplementing the service provided at the general reference desk. We added a documents desk staffed by documents student assistants several hours a day. Our students help patrons with directional questions, guide users to documents in the stacks and microfiche cabinets, place searches on missing items, and show users how to borrow documents through OhioLINK. They also retrieve CD-ROMs, load the discs, and help users with instructions and documentation. They also refer the more challenging questions on to me or the full-time staff.

It's been a long, challenging process to obtain the staff workstations we need. Currently we have one Pentium (on my desk), two 486 workstations for the classified staff, a 386 student workstation, and three dumb terminals for our students.

My staff worked on dumb terminals up until this spring when their machines were finally upgraded. My staff are really happy finally to have Web access and are rapidly learning to use the Web to search agency sites and GPO. We are moving towards automating many of our files and downloading shipping lists and missing agency publications. As staff become more facile with the Web, they build their confidence. Their increased computing skills directly benefit our users, because the

documents staff are better able to find electronic information upon request.

We currently have two dedicated documents public workstations and hope to add a third in the next month or two. Students and faculty can access Government Web sites through a wide array of library Web stations, computer labs, and of course from home. We have developed a documents home page to help users find agency resources and Government indexes. The documents home page is still in its infancy. I work on it, mostly in my spare time at home, so it's growing slowly. My student assistants check the links once a week. The two dedicated workstations primarily provide access to the host of CD-ROMs. We run DOS-based CDs on one station and Windows-based CDs from the other in a Netscape front end. We also circulate many of the discs.

Improved communication is probably one of the greatest advantages to the current configuration. As a department head, I meet regularly with the library administration and can communicate our strengths, needs, and aspirations in a variety of venues, from personal to large or small group meetings. As library policy and goals are debated, I have the chance to explain the GPO guidelines that we in documents live by.

I work with a number of department heads and unit coordinators: Reference, Maps, Circulation, Cataloging, Science, and Acquisitions. Crudely put, as a department head, I have the standing to negotiate directly with other administrators to establish procedures. And I believe that our users benefit because we stand out as a separate unit and they can find us easier than when the department was primarily a processing unit under some large department.

I firmly believe that documents processing and reference demand specially trained and focused staff. In an ideal environment reference, processing, and collection

management activities enhance each other. The staff who open the shipments and process the materials each day have an intimate knowledge of the collection. That knowledge and awareness of the collection is imperative when answering patron queries. Indexes and locators, while important, do not substitute for daily contact with material. And, in the same way, daily contact with users help us define collection depths and weaknesses. How can I know what items to select or deselect if I don't know what our users want? How can I decide which materials to send to Remote Storage if I don't know how often users will need to access them?

If I am constantly helping faculty and students identify relevant documents, I know what topics are in high demand and can target new publications for reserve or reference. If I am aware of the user patterns, I can prioritize older materials for cataloging projects. For example, we discovered through an in-house and circulation study, that hearings, then the census, then Ohio documents were the most heavily used parts of our collection, and those were the first retro cataloging projects we undertook.

As a special collection, we've been able to define our resource needs and compete for a fair share of the pie. I can draw up our equipment requests and student budget requests and argue our case directly. Of course that doesn't mean that I get everything I ask for—far from it. But at least I'm on a level playing field, and I can make my case directly to the library administration instead of trying to negotiate through a supervisor.

Like the other special collections, documents staff focus their talents on documents so that they can provide special care and attention on the collection and its users. Becoming a special collection provided much of the rationale and impetus for reintegrating the collection and office in a central, separate location.

There is, of course, a downside to this model and that is too few staff and too much to do. One of the major factors contributing to the earlier decision to integrate documents into another department was to save money by downsizing. The urge to cut down on staff by shutting down a public service desk was strong, and the literature abounds with libraries that are even now considering such measures. In our library, we have found this decision was not very good for our patrons. The best reference librarians with the best intentions still can not provide the kind of assistance that documents staff can provide. In our library, we still have to depend on the general reference desk as our first service provider and we supplement that service as we can.

We were fortunate that our processing was not dismantled and moved to Technical Processing. We could not have cataloged as much of the collection or maintained the processing standards required by GPO in such a decentralized environment. But we pay a price for these decisions. Our staff work under a great deal of stress because of the workload, and it doesn't seem likely that we will regain any staff positions. Without sufficient staff, we have to decide where to concentrate our efforts. Some things we do very well, but other things get short shrift and we can do only the minimum.

In conclusion, we have tried a number of configurations and we are still trying to evolve a stronger model and improve our service. I've planned and moved our office five times and, after June, our collection twice. They say that practice makes perfect, but I hope I never have to move my collection again.

DOE Information Bridge: DOE R&D Full-Text on the Internet

Kathleen Chambers
U.S. Department of Energy
Oak Ridge, TN

Lorrie Johnson
U.S. Department of Energy
Oak Ridge, TN

Good morning! It is indeed a pleasure to be here. On behalf of the Department of Energy (DOE), I am here to officially introduce the DOE Information Bridge Web site. This system is made available by GPO through the GPO Access Web site.

This is very special day because it is a major step toward fulfilling a long held DOE and GPO vision of bringing to the Federal Depository Library Program and the American public, immediate full-text access to the DOE Report Collection. Today, because DOE and GPO have worked toward a mutual goal, public access to the DOE Information Bridge is a reality. This project reinforces the DOE commitment to comply with the Clinton Administration's objective to move Federal programs and activities into the age of technology and information and it is additionally a giant step forward in providing more electronic dissemination options to the Federal Depository Library Program.

I would like to give you a quick glance into the past to see how we got to the Information Bridge.

The DOE Information Bridge system you will see today is the direct result a longstanding partnership between the Government Printing Office and the Department of Energy. Dating back some 20 years, DOE and GPO have

formulated Interagency Agreements to bring DOE research results to the public. These agreements made it possible for the depository library community to select and maintain DOE microfiched report literature which was the most economical format available at the time.

It is estimated that over 100 copies each of over 250,000 DOE research reports were distributed to the depository libraries via these agreements. That's 25 million microfiche reports all around the country! As technologies evolved, public laws changed (and microfiche cabinets filled up). DOE and GPO started to work together to utilize the GPO Access Web site to bring DOE funded research information directly to the public via the Internet. Working with GPO, DOE offered the depository libraries the most economical product that was available.

Now you have electronic full text access for free because GPO and OSTI had the vision, the knowledge and the desire to make it happen. This is an appropriate time to express thanks to two of our new leaders for having the vision and foresight to move this idea forward. Many thanks go to Francis Buckley, the new Superintendent of Documents and to Walter Warnick, Director of DOE's Office of Scientific and Technical Information. Without you we would not be here today. I would additionally like to express my appreciation to the Federal

Depository Library Program Staff and the OSTI Management and Project Team lead by Don Altom in Oak Ridge.

Let us take a look at the system's savings and benefits.

Free Internet access to DOE's searchable, massive full-text collection represents a breakthrough in reducing the cost of obtaining information and in expanding public access to the product of DOE's \$6 billion annual science and technology research investment. The DOE Information Bridge cost saving benefits have yet to be projected. I do know that it was certainly worth the effort. Depository libraries will not have to catalog, file, maintain storage, retrieve and reproduce DOE reports for their patrons. They can use the Information Bridge.

Formerly, fewer than 300 depository libraries selected DOE Report literature for their libraries. Now all libraries with a computer and GPO Access have DOE Reports collections. Researchers will have immediate access to work of their peers and will be more cognizant of getting their project reports online. Students will have at their fingertips all of the DOE resources they need, when they need it. And there are any number of advantages, not the least of which is reduced costs, that I could cite if we had the time. But, let's get on to the real excitement.

We hope you will like what you see when you get on the Bridge. Did you know that you gave us the specifications for this system? GPO told us that you didn't like registration or passwords. GPO told us to create a system for users that would be easily understood and used. We tried to do this. I am pleased to have Lorrie Johnson from the OSTI staff with us today to demonstrate the Bridge. We want you to use the system and go to the "Comments" form and tell the GPO User Support Team what you think about it. Tell others about it and help us make it widely known within your library's user community. Let them know that GPO and DOE created this

system for the public. We are excited about the DOE Information Bridge. It was designed for you and the public you serve.

Demonstration of DOE Information Bridge

DOE Information Bridge can be accessed through the Internet at <<http://www.doe.gov/bridge>>. The system employs "frames" technology, which allows for increased navigational capabilities through a set of buttons in the left frame while the right frame displays the various search, results, and document display screens. The home page provides product information and background on the database, and provides the opportunity to select the viewer (GIF, TIFF, or PDF) that the user prefers.

Information Bridge offers two search options: Easy and Advanced. The Easy Search provides the quick, simple search that is similar to those of popular Internet search engines, while the Advanced Search screen offers more robust searching capabilities such as fielded and Boolean queries.

Within the Easy Search, the user may choose between three fields for searching. A search of the "OCR Text and Bibliography" field searches the entire bibliographic record plus the associated full text of the document (scanned OCR images). If the user is looking for a known document or a specific author, he/she may use the "Title" or "Author" fields in the Easy Search as appropriate.

Within the Advanced Search, the user may choose to search the following specific fields: OCR Text and Biblio, Bibliographic Only, Title, Author, Identifying Number, Laboratory, Sponsoring Organization, Subject, Keywords, Author Affiliation, Distribution Category, Publication Date, Document Type, and Entry Date. By providing the ability to search specific fields within the bibliographic records, searches can be more precisely defined than with a simple full text search option. In

addition to the flexibility offered through fielded searching, users can also employ Boolean operators both between and within fielded searching. To facilitate searching within the Laboratory, Sponsoring Organization, and Subject fields, pick lists of valid values are provided on the screen so that the user may simply select the desired values.

Once a search in DOE Information Bridge has been initiated, the Search Results screen will appear. This screen contains the title, report number, and publication date of the first 50 documents that match the query with the option to view additional groups of 50 as needed. The full text of the documents can be downloaded by clicking on the PDF icon for the desired document. To view additional information about the document or to view it online, the user may click on the highlighted title and the Document Display screen will appear.

The Document Display screen contains the bibliographic information, including the abstract, for the document in the top portion of the screen. The bottom portion contains links to the full text images and these may be viewed online by clicking on the image numbers. Just below the image numbers, another search box appears which may be used to search within a document. After completing a search in this box, the image numbers which contain the search term will be identified by a larger type font. Documents may also be downloaded from this screen, again by clicking on the PDF icon.

DOE Information Bridge provides an online help file to assist users in using the database. Three levels of help are provided - General, Easy and Advanced Searching, and Troubleshooting Tips. The General help describes basic information about searching and covers such topics as adjacency, date searching, and Boolean operators. The Easy and Advanced Searching help gives definitions of each searchable field and examples of how to enter the search terms and phrases. Within

this section, there is also a cross-walk of DOE subject categories and GPO subject categories for those users familiar with searching by GPO subject categories. Finally, the Troubleshooting Tips section describes common problems and their solutions.

A Comment form and a What's New page provide the opportunity for communications between the users and the developers of Information Bridge. The Comment form allows users to send questions, problems and suggestions while the What's New page gives the latest information and announcements regarding the system.

Designing Your Government Documents Web Page for Your Community's Needs

Ginny Hopcroft
Bowdoin College
Brunswick, ME

Since the U.S. Government began extensive electronic publishing a few years ago, Government documents librarians in many Federal depository libraries have begun creating Government document home pages on the World Wide Web to help their users access the wealth of electronic Government information. These Government document home pages serve two differing purposes: to introduce researchers to the breadth and variety of information available; and to focus the information so that users can locate it.

Because the Bowdoin College Library has made a substantial commitment to using the Web as an information organizing and delivery tool, I developed one Government documents Web page two years ago, and last summer made major revisions to make it a more effective tool for research and to make it visually consistent with a new design for the Library's gateway page. Through reflecting on this process, I have developed some specific recommendations for the intellectual and physical design of Government document home pages.

The first step is to have a clear reason for creating a Government documents home page and a distinct goal for the page. For most depositories I think the most important objective needs to be to connect library users, whether present in the library or at a remote desktop, most directly with the Government information they seek. For Government information the Web offers some unique access opportunities from a user's perspective.

In addition to ready availability on any computer anywhere, for many of our users the Web arguably offers easier access to Government information because Web search methods are more similar from site to site than the organization and indexing of paper and fiche materials are from series to series. For example, searching congressional debate in Thomas is far more similar to searching data in the Census Bureau's Web site than searching the paper Congressional Record is to searching the print Statistical Abstract. This is not an argument, by the way, for a wholly electronic depository; in a world where not all people have computers and networks crash regularly, print still has an important place. But I think depository librarians should capitalize on the Web's ease of access to help create more direct connections to Government information for a variety of our users.

While I have just said that the Web offers some unique ease of access, I also want to point out that it also presents us with unique confusion and chaos as well, because it is so easy to access and there is such broad dissemination of so much material. Therefore, another reason for a depository Web page is that it can act as a focus, providing researchers a manageable window into the larger landscape of Government information. Not only can it be a focus by providing a limited number of selected Web sites selected to be most important for your patrons, but it can also function as an index to the many Government Web sites available. This index feature can be useful both for library users and also for library

reference staff.

In our medium sized library, as in many libraries of liberal arts colleges or medium sized public libraries, all reference staff assist with Government document questions, but many do not have enough time to gain adequate expertise in the collection. We are finding that the Web page is very helpful, not only for individuals seeking information, but for librarians assisting them. Another advantage of a Government documents home page as a finding aid is its flexibility. Updating information and making additions or deletions are easily done.

In creating a Web page, one of the first steps is to decide what sites needs to be included. The first consideration is what information your community needs most. At my library, a college library, the curriculum is a major determining factor of the sites that I select. Not only do I select congressional and presidential sites for the political science classes, I also include EPA and USGS sites for geologists and environmental studies majors, Medline online for the sociology and pre-med students, etc.

Many of these sites prove useful to students in public schools as well. The social and demographic composition of our congressional district is an equally important consideration in selection. Mid-coast Maine has a large number of active retirees for whom travel information is important, so embassy information and travel advisories are included. Our district is characterized by small businesses, so there is a substantial section of links to Government business sources. An interesting feature of the business section is that our page incorporates the work of a Government documents colleague, Paul D'Alessandro, from Portland Public Library, who wanted to create a business Web page, but whose library had no Web presence at the time. The cooperation benefits both libraries and all patrons of the congressional district.

In thinking about information needs, I also considered the kinds of questions that come up frequently at the Reference Desk from the general public as well as Bowdoin students and faculty. Everyone needs tax forms, social security forms, the addresses of their congressional representatives, foreign embassy information, the CPI, and so forth. Our Government documents home page, therefore, includes a selection of sites which answer these kinds of questions.

After defining the information needs of the depository's user population, it is then necessary to locate the sites which provide the kinds of information identified for inclusion on the Web page. For some information, it is easy to discover a site or there are many sites that we work with every day. For other needs, it is necessary to search for a site providing the appropriate information. To search for an agency, the Federal Web Locator works well; GPO Access provides a good range of frequently needed document texts; and the Government Information Exchange site <www.info.gov> offers a subject-organized approach to locating material. Two good sources for new material are GOVDOC-L and the Scout Report <<http://scout.cs.wisc.edu/scout/report/>>. The Scout Report is an Internet service which provides timely reviews of new Web sites, many of Federal Government origin. Also new Government Web sites are often discovered simply in doing day to day reference work.

In reviewing Web sites to include on the Government documents home page, it is useful to apply some evaluative criteria for selection. Such criteria as currency, authority, effectiveness of display, speed of loading and others should be applied in determining whether a site is appropriate for your needs. A number of Web sites provide good lists of evaluative criteria. Two that I like are: Hope Tillman's at <www.bowdoin.edu/dept/library/internet/eval/index.html#web>, and one from the library instruction program at UCLA <www.library.ucla.edu/libraries/>

college/instruct/critical.htm>. Some Government information is available in more than one Web site; my recommendation is that the site closest to the issuing agency is likely to be most authoritative. Also in comparing two sites offering the same publication, it is useful to do some sample questions to ascertain which has the easier search engine and which produces the best results.

Once a body of material has been selected for inclusion on the Web site, it is time to think about the intellectual design of the home page. There are, of course, many ways to organize Government information and many different structures can be effective. The material itself suggests certain forms of organization, but I think it is equally important to observe the ways in which people look for information and try to design the page to reflect those approaches.

For Government documents there is always a strong tendency to organize the material by originating agency, as with the SuDocs classification in our depository collections; but many times people do not know what agency produces the CPI or the Federal Register. In thinking about this I noticed that users usually knew what level of Government—state, Federal, international—they wanted, so that seemed a logical organizing concept. Another factor that seemed important was categories of information—reference for quick factual look-ups, locators for broad searches, and guides for assistance with special categories. The hope is to locate information where people will think to look to find it; sometimes this requires reworking after the page is used for a while.

Simplicity is a key concept in the intellectual organization of the Government documents home page. It needs to be clear to be easily accessed. Also, the actual facts or documents sought should not be “buried” too deeply. Having to click on too many links to find material is frustrating to the searcher, and sometimes leads them to stop short of locating the actual information. Simplicity can extend

to size, as well as organization. Pages do not have to be huge or comprehensive to be effective; they need to offer manageable amounts of useful material in an understandable format. A home page can be begun with just a few sections, and more can be added later. Flexibility is a major advantage of HTML and the Web; pages can be added and expanded as time and additional information permit.

Simplicity is also a major factor in visual and technical design considerations. Simplicity in visual design is appealing, especially in a publication designed to inform rather than persuade or entertain. The visual simplicity underscores the philosophic clarity. Technical simplicity is also critical. Moving objects, banners and other Web accessories are best used only very sparingly and for well-defined and appropriate purposes. In recent usability tests conducted by Jakob Nielsen of Alertbox, users clearly wanted recognizable simple interactions in viewing and searching information <<http://www.useit.com/alertbox/980322.html>>. Simplicity also adds to manageability in creation and maintenance for the documents staff. For our page we have created templates for formatting the individual pages, so that individual coding was not required for each; we simply put the content into the coded template. The consistency is both a staff time-saver and makes the page easier for users to grasp when certain forms of material are in predictable places.

Another consideration is that simpler pages load more quickly. Graphics make Web pages more interesting and appealing, but they need to be applied judiciously, and they need to be images which load reasonably quickly. On our page the bars with the titles in them are graphics, but they are simple graphics which load quickly, which do not interfere with the researcher’s finding the information efficiently. Also please be sure that the fonts and colors that are chosen will display well on computers of different make and age. On Bowdoin’s Government documents Web page for

example, I used italics fairly liberally in one section, and then happened to look at the page on a Macintosh computer where the italics did not display readably at all. This is a particularly important consideration for a depository library, since the public is certainly accessing the Web on a wide variety of computers, and the information should be equally available to all.

There are many ways to add explanatory information to a Government documents home page to enhance the use of Government information. One is to annotate the sites on the home page so that searchers know what to expect from each site and can judge whether a given site is the one they are seeking. Annotations need to be crisp and informative. In general searchers do not want to read whole paragraphs, but often find it helpful to have some idea of the scope and content of the linked site. In other places it can be useful to add other short relevant items of information, such as the local address to send social security forms, which does not appear on the social security forms page.

Another useful addition to a Government documents home page are guides for the use of Government publications, whether those publications are Web sites or traditional paper and microfiche documents in the depository's collection. One example of this from Bowdoin's Government documents Web page is the guide to locating congressional documents at <www.bowdoin.edu/dept/library/govdocs/guides/congdocs.html>. In that guide the location and classification of congressional documents, such as bills, hearings, reports, etc., in the depository collection is provided along with the URLs for such sources as GPO Access and Thomas where the texts of those documents can be obtained online.

At Bowdoin the librarians create course research guides on the Web, and the Government documents home page includes all the guides relating to Government

documents. In this way the Government documents home page becomes a tool for accessing both paper and electronic sources and can serve as an advertisement and reminder of the presence of the depository and the materials there. One other important access addition is reaching the depository librarian. The home page needs to include the depository's phone number and the librarian's e-mail address. I receive e-mail questions from both the college community and the general public through our Web page.

When a Government documents Web page has been created, its existence should be publicized. I suggest posting to your state library listserv or newsletter and to GOVDOC-L. Local school and public libraries also are likely to be interested in linking to the depository's home page because it can help them better direct their patrons to Government information, often not found in print form in their libraries. Notifying the library's primary users, through e-mail or a print newsletter, is also a good idea. A nice bonus is that many people find it on their own, and it seems to be a good way to advertise the presence of the depository library. Bowdoin's Government documents home page has been discovered by a variety of people from Cub Scouts to retired citizens.

In closing, I'd like to say that a well-designed Government documents Web page can substantially enhance access to Government information for many patrons. I think it is well worth our time to experiment with the information access opportunities this new medium affords to do our work more effectively in Federal document depository libraries.

FDLP/ERIC Digital Library Pilot Project

George Barnum
U.S. Government Printing Office
Washington, DC

It has been written that "Partnership is a key element in stable, long term access to electronic Government information, building on the successful model of cooperation between GPO, agencies, and local libraries for public access to information."

GPO's current emphasis on partnership grew out of the successes of the FDLP and the demands of a task larger than a single entity's capacities. One of the most successful aspects of the FDLP is that various tasks that would be far too large or prohibitively costly for an agency alone are shared among participants in the program, producing value for all. Thus, rather than building a single permanent collection of records of last resort for Government information in traditional formats, regional depositories receive and retain all documents permanently (in general) and in coordination and cooperation with selectives ensure ongoing access in a convenient proximity to end users. By engaging in the partnership type arrangement, far better service to users is provided than GPO could hope to provide on its own.

Similarly, the resources for building permanent access to online Government information are staggering, extremely difficult to manage and very costly for a single entity. So, GPO is experimenting with various models that will bring agency producers of information together with partners in various kinds of organizations and institutions, ranging from individual universities to consortia to large service providers, to seek strategies and know-how for providing storage capacity and effective access to agency electronic information.

The FDLP/ERIC Digital Library Pilot Project is one such experiment. In October of 1997, following negotiations that actually began with my predecessor in ETS, Duncan Aldrich, GPO, the National Library of Education (NLE), and OCLC, Inc. entered an agreement to conduct a one year pilot project with full text of the public domain ERIC reports long distributed in microfiche to depositories.

The project is designed to obtain information concerning electronic archiving, bibliographic access to image files, library and end user behavior and preferences, and other issues relevant to the transition to a more electronic depository program. It specifies that OCLC will provide free and unrestricted access to public domain ERIC reports via Federal depository libraries, will provide technical support for their use, will meet certain performance measures for reliability, security, and usage of the information, and will participate with GPO and NLE on assessment and evaluation of the project.

GPO agrees to coordinate pointers to the collection in GPO Access, provide general user support, and to recognize OCLC as an official site for ERIC digital information. GPO will also coordinate communication with the depository libraries in the pilot.

NLE and OCLC have entered into a separate technical agreement by which image files of the ERIC documents are provided to OCLC by NLE's contractor, ERIC Document Reproduction Service (EDRS).

With this pilot we are taking a valuable and well known product within the FDLP and moving it into the electronic arena, consistent with our goals in the Transition Plan. The pilot will provide much needed information for us on the ramifications and requirements for making large and high-demand collections available electronically through depositories. It also connects us with a very visible and forward-thinking pair of partners. The project has potential for providing a model for many other products and agencies.

I want to emphasize that our objective for this pilot is to gather information on feasibility and comparative costs for this type of data archiving. It is a pilot, and as such it has some limitations that we all need to be aware of. It has a beginning and an end. We certainly hope that there will be sufficient evidence of success and positive response to continue the project beyond its expiration at the end of December. But that is not certain at this time. Likewise, it's important to remember that this is the same subset of ERIC documents that have been available in microfiche, which are the ones in the clearinghouse that are in the public domain. We're very fortunate that this test project happens to be a set of documents that are popular and will give us good data on user behavior and handling of large full-text documents in a high-demand setting.

Let's talk briefly about the mechanics:

The pilot actually began earlier this year when OCLC began receiving digital data from EDRS. The pilot will cover reports from January 1997 forward. Image files are being converted at OCLC and beginning in late June or early July, libraries in the pilot group, the 312 depositories that select item 0466-A-03 will receive packets of information with login and passwords that will allow them to enter OCLC FirstSearch to use the full text and bibliographic data for ERIC reports free of charge.

The pilot group will be phased-in in stages, so that we can work out bugs as we go. Throughout the rest of 1998 and into early 1999 OCLC will be gathering data on use and user behavior, and all three partners will be conferring and analyzing the data for a report to appear in January of 1999.

What do we hope to know? GPO hopes that we will have data on the feasibility of using a contractor such as OCLC for this archiving activity. We need to be able to compare the costs of this route with the costs of other methods. We also will have data on demand for these reports that should be of interest to GPO and NLE, and will have good information on user behavior and expectations.

At this point I'm pleased to introduce the next member of this panel, who I consider one of the great dividends of my "tour" at GPO this year. During this project, Blane Dessy, who is Director of the National Library of Education, and I have had many excellent meetings and transacted much business over the specialties of Chef Ted at the establishment halfway between our offices. Blane and Richard Whalen of his staff are enthusiastic participants in the partnership, and GPO is very proud to be working with NLE (and with OCLC) to bring this about.

FDP/ERIC Digital Library Pilot

John Hearty
OCLC
Dublin, OH

Goals of the FDP/ERIC Pilot

- Offering broad access to Federal information
- Preservation
- Integration with secondary and tertiary information
- Reduction of costs for libraries, GPO, and Federal agencies

Obstacles to Implementation of Digital Libraries

- Libraries concern over stability of electronic versions
- Property rights in electronic media are ill defined
- Costs for initial scanning required for creation of documents
- Metadata in rough shape
- Large document delivery issues

Dimensions of Digital Libraries

- Security
- Access
- Economy
- Openness
- Library needs
- Publisher needs
- Information user needs

OCLC Strategies

- Leverage OCLC online system
- Leverage existing OCLC services
- Leverage scanning activities
- Leverage OCLC membership and cooperative tradition
- Focus on what is practicable in the near term
- Maintain flexibility for future

Pilot Project Business Model

- OCLC assumes costs of loading, storing, and offering access to the data
- NLE signs a non-exclusive license allowing OCLC to use their data through 1998 without compensation
- Collaboration on all aspects of pilot

Pilot System Functionality

- Comprehensive search capability
- Displays of citation, abstract and header, and full text (image, PDF)
- Hyperlinks to GPO's and NLE's home pages, similar documents, etc.
- Comprehensive statistics, and reports

- 7 day by 24 hour availability

Rollout Plan and Schedule

- Research Design
- Selected and Open Pilot Demonstrations
- Schedule

Research Design Objectives

- Test technology with several formats
 - additional pilot tests digitized manuscripts, photographs, drawings
- Gain input from users
 - image quality; navigation of large documents; delivery options
- Validate concept of preservation and access
- Determine costs

Research Design Questions

- Is it cost effective to digitize documents & add access?
- Is the process timely?
- How usable are the reports in an online environment?
- Do we need other delivery options/formats?

Research Design Methodology

- Focus group
- Phone surveys
- Patron questionnaire
- Site visits

Selected and Open Pilot Demonstrations

- FDLP Annual Conference
- ALA Annual at OCLC booth
- Technology and software corporate reviews
- FDLP fall conference
- ALA Midwinter wrap up

Pilot Rollout Schedule

- Prototype with 80 documents – Complete
- FDLP/ERIC Pilot Implementation – June
- EA Special Collections Pilot implementation - Early Summer
- ALA Demonstrations – June
- Research Design Implementation – Ongoing
- Pilot Conclusions – December
- Final Report - Early 1999

Office of the Federal Register and Its Publications

Ann Maso

National Archives and Records Administration
Washington, DC

Today I will be discussing the publications of the Office of the Federal Register, and focusing upon the daily Federal Register (OFR) and the research documents that support it. I will ask for questions from time to time within the lecture, and anticipate having about fifteen minutes for questions at the end of the lecture. You should each have a handbook, which you can take home with you, that reinforces this lecture. We will not be following the handbook this morning.

First, I'd like to discuss what the Office of the Federal Register does, and clear up some myths. We are not a part of the Government Printing Office (GPO). The OFR is an office under the National Archives and Records Administration. The OFR receives, organizes, reviews, edits and okays for printing documents from Federal agencies that publish in the Federal Register (FR) and Code of Federal Regulations (CFR). We also receive, organize, review, edit and okay for printing Presidential documents and laws. We do not print, sell or distribute any of these publications. That is done by the GPO. We also do not write the documents. They are written by Federal agencies, Congress or the Executive Office. The Government Printing Office prints and distributes, while our office is primarily providing review and editing.

Let's take some time now to go over the publications of the OFR. The OFR publishes documents for the Office of the President and Federal agencies. Whenever the President of the United States signs an executive order, or presidential proclamation, whenever the White House makes releases or signing statements,

and whenever the President gives a public speech, it is transcribed, and collated by our office into the Weekly Compilation of Presidential Documents. These are then ultimately compiled (with photographs) into volumes of the Public Papers of the Presidents of the United States. In addition, within the Code of Federal Regulations, title 3 contains the annual publication of executive orders and presidential proclamations which were published in the Federal Register. This title of the CFR is NOT cumulative. Each year's volume needs to be retained. For your convenience, we have color coded title 3 in reverse colors, to alert you to retain the volume and not remove it each year. The Office of the Federal Register edits, annotates and publishes the Slip Laws. These are the laws of Congress which have been signed by the President. And the laws are compiled into the United States Statutes at Large. The OFR also publishes the United States Government Manual. This book gives the organizational structure of each agency, lists each office and its function, as well as phone numbers and addresses. It is published annually.

For Federal agencies, our primary publications are the Federal Register and Code of Federal Regulations. The Federal Register is produced every workday, with the exception of Federal holidays. It contains the rules, proposed rules, and notices of Federal agencies, as well as Executive Orders and Presidential Proclamations of the White House. It serves to inform the public of regulations that are proposed, gives them opportunity to comment on them, and alerts the public to new

requirements, and other matters, such as advisory committee meetings.

The Code of Federal Regulations is an annual publication of current regulations. It contains only the rules, no proposed rules or notices appear in the CFR. It is updated by the daily Federal Register. For example, if you wanted to know the regulations regarding how wide doorways should be made to be accessible to the physically challenged, you would go to the CFR, and then check the Federal Register to see if any changes had occurred since the publication of the CFR.

To that end, several finding aids materials are published by the OFR. They include the Federal Register Index, which lists publications by agency name, and is published monthly, and the List of CFR Sections Affected, which lists changes to the CFR by CFR title and section number, and is also published monthly. And a CFR Index and Finding Aids book is published once a year. It contains a subject index, a listing of the heading of each title and part number for the Code, and tables of authority citations.

And finally, OFR produces the Privacy Act Issuances. This is a compilation of regulations and notices published in the Federal Register, pursuant to the Privacy Act. It is revised every two years (1993 CD-ROM only; 1995 online).

All of these documents are produced by the OFR. For the Federal Register alone, we process one hundred to two hundred documents a day. All of this is accomplished by 61 people.

I would like to briefly discuss the rulemaking process with you. I understand that you receive requests for information that may occur at any point in the rulemaking process. So, I want to go over that process as it relates to the OFR. The first step in rulemaking is usually a law enacted by Congress. Many laws enacted by Congress require agencies to issue regulations. And issuing regulations means

publication in the Federal Register. Usually, the Federal agency will publish a proposed rule as a result. Proposed rules are required in most circumstances, by the Administrative Procedure Act (APA). The APA dictates proposed rules for the express purpose of giving interested parties an opportunity to participate in the rule making by alerting the public to a change in the regulations, and allowing the public time to give comment on the proposal.

After the comment period closes, and the agency reviews the comments, it may or may not change the regulation. It then publishes a final rule, in which comments that were received are addressed, and the regulatory changes are announced. Once the effective date of the final rule is reached, these regulations are in effect and enforceable. It does not require publication in the annual CFR. And when the CFR volume is next updated, the changes mandated in the Federal Register are incorporated into the annual Code.

Let's briefly go over the Federal Register layout. The first page contains general information regarding when and how the FR is produced, subscription information, and citing information. It will also tell you when and where the next workshops will be available for the general public. The next page begins with an index, grouped by agency name. It will list the page span for the document. Then you will find a listing by CFR title and part for each rule or proposed rule in the Federal Register of that day.

Then we begin with the text, which starts with Rules, listed in CFR order. Then comes proposed rules, and notices. If there are any corrections that the OFR needs to make, they are printed after the notices. This is followed by separate parts which can be rules, proposed rules or notices. They are set apart from the main body of the FR, usually at the request of the agency, sometimes because of OFR production needs. Separate parts can be

reproduced separately from the rest of the FR. Agencies request this in order to make multiple reprints of their document, without reproducing the entire FR.

After all the separate parts, we have printed some reader aids. On this page you will find phone numbers and electronic information for customer assistance, a guide linking page numbers to their appropriate Federal Register for the month, and a listing of the CFR title and parts that are affected during the month that this Federal Register is issued. That is followed by a reminder of rules going into effect on that date and of those proposed rules whose comment due dates end in the following week. On Mondays, a list of CFR volumes and their availability appears behind the reminders list.

Now as librarians, I understand you work with a lot of research type questions. I'd like to take the remaining time to go through some research examples. Of course, the simplest and easiest way to find a document is through the online Federal Register. The online FR has every FR volume from January 2, 1994 to present at <www.access.gpo.gov/su_docs/>.

If you have questions at any time, please contact our offices at 202-523-5227, or through e-mail at info@fedreg.gov. And feel free to visit our Web site at <<http://www.nara.gov/fedreg>>.

GIS Software, Applications & Management

Donna Koepp
University of Kansas
Lawrence, KS

Good morning. Welcome to the session on Geographic Information Systems (GIS) Software, Applications, and Management.

This session is sort of a takeoff on a session that was done last August at the Regional meeting in Minneapolis.

As you may have noticed, everyone on our panel this morning is from a regional library. The reason for that is that we were all a part of the meeting last August and not necessarily because we are the best depository librarians to address the issues of GIS.

Let me first introduce our panel.

- Ridley Kessler, Government Documents Librarian, University of North Carolina, Chapel Hill.
- Barbara Levergood, Electronic Documents Librarian, University of North Carolina, Chapel Hill.
- Julia Wallace, Head, Government Publications, University of Minnesota.
- Brent Allison, Head, John Borchert Map Library and GIS Lab, University of Minnesota.
- John S. Walters, Head, Government Documents, Utah State University.

I am Donna Koepp, Head of the Government Documents and Map Library, University of Kansas (KU).

In Minneapolis our session was two hours. Our panel members each spoke for just a few minutes and then we opened it up to a discussion by the whole group, a much smaller group of between 50-60 people. Our goal was to reach some consensus on what regional libraries should be doing, or what regionals could realistically expect to do with the electronic spatial data that we are receiving in the depository program. Just so we all have the same understanding of what we mean by spatial data, for this program we are talking about the TIGER/Line files, the Digital Line Graphs, Digital Raster Graphics, Digital Data Series, and NASA's Magellan Full-Resolution Radar Mosaics.

We started with one premise. That is, we recognized the fact that it is not necessarily the regional library in each instance that is the most logical, or the best equipped depository in each state to provide GIS service or otherwise deal with electronic spatial data. And we would like to reiterate that fact here. There are a number of depository libraries now that are providing assistance with automated mapping and GIS. Some are regional, and some are not. It is more dependent upon whether or not there is adequate staff, adequate electronic resources, and frequently whether there is a separate map library, with adequate staff and cartographic expertise to develop this kind of service.

Our presentation today is 90 minutes. All six of us would like to share with you information on how GIS service is provided in our libraries and what our rationale is for our approach to that service. Four of us have some actual

examples of maps that we have produced in response to specific requests from our users. We will show you these maps and explain briefly what software and data were used in their production. We ask that you save your questions until the end.

I would like to begin the map examples with some from the University of Kansas Government Documents and Map Library. My automation specialist is Kendall Simmons, whose job it is to examine, install if necessary, and provide documentation and staff guides for all of the CD-ROMs we receive in the depository program. In addition, she is our GIS person for the Map Library. Many of the GIS inquiries actually are received and responded to from the Government Documents side of the library, which at the moment is in a separate physical location, although we are one unit.

Kendall is just now learning GIS, but is doing quite well. We are able to respond successfully to most of the questions we get. We have an automated mapping request form on our home pages for Documents and Maps, and we also receive inquiries in Maps and in Documents by phone and in person. We are using ArcView 3.0a. The examples I have to show you are all the results of actual questions.

[slide 1]
Graduate degrees, not normalized, by block group, Riley County, Kansas.

A Washburn University student was doing a project with a professor regarding the proper location for an arts center. They specifically wanted a map that showed the number of people with graduate and professional degrees by block group. This map was made in response to what they had asked for. ArcView 3.0 and the Wessex TIGER files were used for this map and the data was provided by the student from STF 3A.

[slide 2]
Graduate degrees, normalized by total population, by block group, Riley County, Kansas.

Later, after taking a free ArcView workshop, Kendall learned about normalizing. Out of curiosity, she ran the previous map again, but normalized the data by the total population per block group. This gives the percent of population with graduate and professional degrees instead of the total number. The difference wasn't dramatic, but it was interesting.

[slide 3]
Total in poverty, not normalized, by block group, Lawrence, Kansas.

The knowledge of normalization paid off immediately, and provided Kendall with options she had not known about before. One of the next projects was a KU student doing a project based on his hypothesis that poverty in Kansas towns progresses from east to west. ArcView 3.0 with Wessex files were used for this map with STF3A data.

[slide 4]
Total in poverty, normalized by total population, by block group, Lawrence, Kansas.

As you can see, there is an enormous shift in placement of "poverty pockets" when viewed in the perspective of percentage of population per block group. This is a continuing project. Kendall is doing about 35 maps for this student. He is getting the data from earlier censuses, back to 1940, and will try to apply the data to current maps, to support his hypotheses.

[slides 5, 6, 7]
Pharmaceutical Manufacturers, California.

These maps were created using ArcView 3.0, the Wessex TIGER files, and data from the County Business Patterns for California, CD-

ROM. You will notice that there is no line between Los Angeles County and Orange County. That is because that county boundary is missing from the Wessex files. Kendall was not certain how to add the line in ArcView. She could have done it in Paint Shop Pro, but decided to just combine the data for those two counties instead. Each map seems to be a learning experience, and for this particular set of maps, the big discovery was that every time the map is redrawn, or every time the “apply” button is clicked, the dots showing the location of the manufacturers move. Kendall had not realized that the dots appeared randomly within the counties, so it was quite unexpected and amazing to see the dots move with every update of the map.

One problem encountered in FTPing, of which you should be aware, is that it frequently takes so long that the online program may time you out. If one is downloading from America Online, the downloading is not considered activity by AOL or most ISPs, causing the connection to be timed out. There is a shareware program called Stay Connected! that will solve this problem.

[slide 8]

Detail of Clinton Lake DRG, Lawrence, Kansas.

This map was produced for two architecture students who wanted a topo map of an area around Clinton Lake that they could use to create a 3D image. The detail they wanted needed to be at the scale illustrated by this slide. ArcView 3.0, the DRG CD-ROM, and Paint Shop Pro were used to create this map.

[slide 9]

Image of desired coverage, Clinton Lake, Lawrence, Kansas.

This slide shows the extent of the area the architecture students needed, but at the scale shown in the previous slide. Currently we do not have a large format plotter, so we could not print the entire map for them at that scale. It was learned through more careful interviewing of the students that they wanted to digitize the map for import into a 3D modeling program. Kendall resolved the problem by FTP-ing the appropriate TIFF files to them. In this instance, one might also have used the paper topo quad to scan or digitize from.

GIS Software, Applications, and Management: Providing Public Access to MapInfo and ArcView

Barbara Levergood

University of North Carolina at Chapel Hill
Chapel Hill, NC

Good morning! I would like to do three things that I hope will give you a sense of what can be done with GIS in a depository on a relatively limited basis. First, I'll use a discussion of why we provide GIS services in our library as an excuse to show you two examples of common queries that can be answered and simple maps that can be made using GIS. Second, I'll outline the services that we provide for GIS in our library. Third, I'll take you through the major steps involved in making a thematic map using GIS.

I. Why We Provide GIS Services

There are two primary reasons that we wanted to get into GIS in our Documents Section. First, we wanted to provide access to census maps (e.g. block maps) that were not depository anymore in paper or fiche. Let me give you an example. With the GIS, and using the depository TIGER/Line data from the Census Bureau, we can create digital maps of streets (overlay 1), census blocks (overlay 5), or census block groups (overlay 4) and print them out. This level of geographic detail is not available in any other format from Census through the FDLP.

However, users commonly request this type of map from us. For example, a user might want to collect census data for a community (overlay 1). The problem is that they might have the names of the streets that bound the community but they would not normally know which blocks or block groups or census tracts define that community. Without that

information, the user cannot collect census data. The GIS can help the user identify the census geographic areas.

We might start with a street map of the neighborhood in Durham County, North Carolina. This map was created using depository TIGER/Line data and MapInfo GIS software. Using the GIS, we would then overlay a block map of that area (overlay 2). The user would identify the community and we could shade in the blocks that are a part of the community. We might overlay a map of the census tracts (overlay 3); here we discover that the community is entirely within census tract 9. But notice that the community is just a small part of the tract; collecting data for the entire tract might not correctly characterize the community. So, we overlay a map of the block groups (overlay 4); here we see that all of block group 2 is within the community and part of block group 3 is also. The user might decide now to collect data for both block groups or for just block group 2 and ignore that part of the community within block group 3. These are the only options available if the user is interested in socio-economic information, since that data is available at the block group level but not at the block level. Alternatively, the user may be interested in block data also. So, we can number the blocks that define the community (overlay 5). The user can print out this map or any of the other maps we have seen as is or considerably elaborated with titles, legends, scale, etc. The user will now

have the needed information: the identification of the census geographic areas needed to define the community and to collect census data for.

Note that these maps include spatial (geographic) information: streets, blocks, block groups, and census tracts; along with street names, numbers, and map titles. But there was no statistical information represented on the maps.

This leads us to the second reason that we wanted to provide mapping capabilities for users, for the 1990 census statistical data especially (overhead 6). This is a simple thematic map showing the geographic distribution of population density and African Americans in Durham County census tracts. This map is more complex than the maps I showed you before in that it includes not only the spatial data (the census tract boundaries) but it also includes a representation of statistical data. The colors represent population density and the dots represent African Americans. This map could be used to answer the question: "Do African Americans in Durham County, North Carolina live in areas of high population density?" This type of map is also commonly requested.

We got into GIS, then, for two reasons. First, we wanted to provide access to small area census maps that were no longer depository. Second, we wanted to provide thematic mapping capabilities for 1990 census data.

II. Our Services

Next, I will outline the services that we provide for the GIS.

Our Documents Section is a Regional library. We provide public access to GIS software and spatial data in support of Government information. In Documents, we have three full-time librarians and three full-time paraprofessional staff. I am the only full-time staff member who works with the GIS, but I

have a student or two whom I train to help me. Our Maps Library, a separate unit in a different building, holds most of our depository maps but it does not have GIS.

We provide public access to two pieces of GIS software, MapInfo Professional and ArcView, on a single workstation in Documents. Users can print out in black and white on a laser printer or in color on an inkjet printer.

We ask that people contact us ahead of time to discuss what software, spatial data, and statistical data are available and suitable, to set their expectations, and to make an appointment for instruction. Ahead of time, we prepare the spatial data files that the user will need. We support the depository TIGER/Line data from the Census Bureau as well as TIGER, which is commercial data based on TIGER/Line and produced by Wessex. During the appointment, we spend 30-60 minutes assisting the user in learning how to use the GIS software and how to access and manipulate the spatial and statistical data via the GIS in order to complete the project. We then leave the user alone to do so, remaining available to answer questions that inevitably arise. We provide documentation and custom handouts in support of the software and data.

The GIS is a very heavily used resource and it is growing in popularity, by folks from both on and off campus. Each of a user's sessions may be from 1 to 8 hours or more, with 2 hours being a typical minimum. We find that because of the complexity of the software and data, users need a high level of service.

We do not provide full service for the GIS. For instance, we do not create a map for a user. Rather, we familiarize the user with the software and data and they create the map. Recall that our mission is to provide access to the GIS in support of Government information. Unfortunately, we can provide a minimum level of service (or none at all) to those who are interested primarily in creating an attractive

cartographic product not using Government information since that is not a part of our mission in Documents and because of limitations of staff and hardware resources.

The second major service that we offer is to provide spatial data files for users who want to use them on their own computers using their own GIS software. This is unproblematic in the legal sense for the Federal spatial and statistical data, which is public domain. But spatial data files are huge, so we have developed a number of ways to get them to users, including an FTP site that we use to store large files for users to download.

III. A Sample MapInfo Session

Please turn to the back page of the handout. I would like to guide you through this sample MapInfo session just to give you a feeling for the steps involved in making a thematic map. Please be aware that there are *many* other variations on how to work with the data and the software that I will briefly describe later.

Let's assume a very simple query: I would like a map showing the distribution of population in Durham County by census tract.

1. (overhead 10) We might begin by collecting the statistical data. We'll use the 1990 Census of Population and Housing, STF 3A, to create and download a dBASE III file giving the population of each census tract in Durham County, NC. That file must have the census tract numbers in one column, indicated by the arrow.
2. We will make the map using MapInfo, although we do not open the software up yet.
3. (overhead 11) In our library, we use TIGER/Line 1992 spatial data along with MapInfo.
4. (overlay overheads 11 and 12) GIS software in general, and MapInfo in

particular, cannot read the raw TIGER/Line files directly off the CD-ROM. First, the spatial data that we want, census tract boundaries for Durham County, must be extracted from the TIGER/Line files and translated into a format that MapInfo can import. We use TigerBdry software to accomplish this. You are looking at the batch file that we use to create our desired map.

5. (overhead 13) Once the spatial data has been extracted and translated, we fire up MapInfo and import the file into the native format.
6. (overhead 14) We then open the resulting file within MapInfo and we display the map of Durham County census tracts (overlay overheads 14 and 15). Associated with this map is a database containing census tract numbers. The arrow is pointing to that column.
7. (overheads 10 and 15) Now, if we compare this spatial data database containing the census tract numbers that came from TIGER/Line with the statistical data database containing the numbers that we downloaded from the STF 3A file, we see that the format of the numbers is different. However, we want MapInfo to be able to join these two databases based on these census tract numbers. To do this, the numbers must be identical in every detail. Thus, we must edit the file to make the numbers identical.
8. We will also have to do the necessary calculations if the user wants to map density or a percentage or any other number that is not already in the statistical datafile.
9. (overhead 16) We are now ready to create the thematic map. This can be a fairly confusing process involving joining the statistical and spatial data files, choosing

the thematic values for the map, and customizing the map.

10. We can label the map.
11. We can work with the layout of the map and the legend.
12. (overhead 17) Finally, we can print out the thematic map showing the population density within Durham County census tracts.

The estimated total staff and user time involved in making this map is 1-1/4 to 2-1/2 hours or more.

We just made a map using MapInfo along with depository TIGER/Line and census data. There are many other alternatives. Instead of MapInfo, you could use ArcView along with the depository data, as long as you have the appropriate extraction and translation software to use in step 4. The other steps would be similar.

Another alternative is to purchase spatial and/or statistical data that has been customized for use with either MapInfo or ArcView. Let me quickly take you through that same sample session, this time using ArcView along with TIGER and census data, both purchased from Wessex.

In step 1, instead of using the statistical data from the Census Bureau, you would create a file using the commercial package. In step 2, use ArcView instead of MapInfo. In step 3, instead of using TIGER/Line from Census, you would use commercial TIGER. In step 4, it would be necessary to extract the data from commercial TIGER from Wessex, but translation is not required. This can save considerable staff time. In step 5, the import step is not required, again saving time. Step 6 is similar. Step 7 may not be required, since the files may already be customized. This is a very time consuming step and we are glad to save that time.

You may be wondering why we would ever make maps using the TIGER/Line spatial data when I indicated several times that we could save time and aggravation by using the Wessex TIGER data. If you look on page 4 of the handout, I outline some of the advantages and disadvantages of these two options. There are two major advantages of using depository TIGER/Line. First, block boundaries are included in TIGER/Line, they are not included in Wessex's TIGER. Second, TIGER/Line is public domain. Consequently, we extract and translate those files and give them away to our users fairly often.

Let me emphasize there are many variations on the procedures I just outlined that depend on the GIS software, the spatial and statistical data resources that you have through the FDLP or that you purchase, and any translation software that you purchase.

This then is a greatly simplified overview of the GIS services and spatial data that we provide to the public. I hope I have conveyed my belief in the importance of GIS as a tool working with statistical data, as well as an appreciation for the enormous resources that can be devoted to the creation and maintenance of these services, software, and data.

In the handout, I have included a lot of other information that you may find useful if you are thinking of getting into GIS. On page 2 is a step-by-step outline of how we have developed our GIS services and resources and some issues and problems with our services. On pages 2 and 3 is an estimate of the costs in terms of software, data, hardware, and staff. On page 4 is an outline of the spatial data that we support and how we make it accessible. This is a critical page and worth looking at in detail if you are interested when you get home. On page 5 is an overview of the statistical data that we frequently use with the GIS. Finally, on page 6 is the sample MapInfo session.

ArcView 2.1 and Bureau of the Census Data Sets

John S. Walters
Utah State University
Logan, UT

Using ArcView 2.1, produced by Environmental Systems Research Institute (ESRI), in conjunction with Extract, a free software program produced by the Bureau of the Census (BOC), users are now able to access and manipulate BOC data sets and represent them as thematic maps or reports.

Software

ArcView is a desktop Geographical Information System (GIS) that allows users to readily extract and manipulate dBase data sets directly from the Census CD-ROMs in preparation to joining the data with an associated thematic map. ArcView requires a minimum 486 processor and at least 16 MB RAM. The approximate cost of ArcView is \$800.00.

Extract enables easy and rapid location of data sets available on most Census Bureau CD-ROMs. Designed to run on a DOS platform, Extract works with any IBM-compatible PC (386 or later) with a minimum of RAM (425kb). Extract is available from the 1992 Economic Census CD-ROMs, several of the other census discs, or via the World Wide Web at the following URL: <<http://www.census.gov/ftp/pub/epcd/www/extract.html>> .

Example

Create a map showing the percent of households that have income less than \$10,000 per year and another map showing percent households with income greater than \$100,000, both by USA Counties.

1. Use Extract to identify appropriate files and fields using the Census Bureau's STF 3C disc.

1990 Census of Population and Housing STF 3C Disc

File	Fields	Description
301	p0050001	Total Households (the denominator when calculating the percent)
314	p0800001	Households with income less than \$5,000
"	p0800002	Households with income greater than \$5,000 and less than \$10,000
"	p0800023	Households with income greater than \$100,000 and less than \$124,999
"	p0800024	Households with income greater than \$125,000 and less than \$149,999
"	p0800025	Households with income greater than \$150,000 and more

2. Use ArcView to pull the identified files and fields from the Census CD-ROM.
3. Once in ArcView, the identified files (301 and 314) need to be modified to limit them to only the data files necessary for creating our specific map (household income). Fortunately, we can use the ArcView Table

menu and choose Properties to select only the fields we need, in this case:

- *Sumlev* (field which assigns all county level data with a sumlev of 50);
- *Statefp* and *Cnty* (*fips* code needed to join our census data with the mapping data)
- *Household Fields* that we previously identified (p08...).

Next, we need to *query* the table and eliminate data we are not interested in. We do this by setting up a query that asks for data sets for the county level only, *sumlev = 50*. Once this is done, we can export the table. We follow these steps until we have all our tables trimmed to just the information we need.

4. Next, we open the newly modified tables in ArcView for further editing. Specifically, we need to create a new field called *fips* that is simply the *statefp* and *cnty* fields combined (*fips = statefp + cnty*). The *fips* field is necessary since this will be our common field between the BOC data and the ArcView's thematic map tables. Following this, we combine the data sets for relevant household income levels. Using the Calculate menu option we can now create a new field showing the percent of households with the required income levels: **pct_hsls_inc = (hsls_inc < 10,000 \ tot_hsls) * 100**
5. Using ArcView, open the map, or *View*, showing the USA Counties and then open its associated table. Selecting the *fips* field, that is now common to both tables, we can join the two tables.
6. Once joined, we select the window box "View 1," double-click on the legend, select the box with the drop-down menu labeled *Field*. Locate the field

pct_hsls_inc which can now be mapped. We can choose one of three different classification schemes, Quantile, Equal Interval, or Unique Interval. We can then choose varying colors from the color palette and finally draw our final map.

U.S. Senate Bibliographies Project

John A. McGeachy
North Carolina State University
Raleigh, NC

In 1983, near the beginning of the 103d Congress, the Senate adopted a numbering scheme to provide unique identifying numbers for its hearings, committee prints, and publications. Reports and documents had been so numbered for many years, and these new numbers meant that every publication of the Senate would receive a unique number. Since 1983 the designations "S.Hrg.," "S.Prt." and "S.Pub." have been printed on the covers of these materials. The House did not follow the Senate's lead, so hearings, prints, and publications of the House do not carry similar numbers.

GPO recognized that the Senate numbering scheme would provide a quick and easy means to classify these documents. Unfortunately, the marriage of SuDocs stems for the issuing committee with the Senate numbering designation, assigned without regard to the committee, created some disharmonies in depository collections. When you browse the hearings of a given committee now, the numbers you see appear to be randomly assigned. For example, here are the hearings from the Aging Committee of the 104th Congress in SuDocs order:

- | | | | |
|----------|----------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|
| 104-0110 | Gaming the Health Care System: Trends in Health Care Fraud | 104-0230 | Breakthroughs in Brain Research: A National Strategy to Save Billions in Health Care Costs |
| 104-0113 | Problems in the Social Security Disability Programs: The Disabling of America? | 104-0256 | Federal Oversight of Medicare HMO's: Assuring Beneficiary Protection |
| 104-0118 | Planning Ahead: Future Directions in Private Financing of Long-Term Care | 104-0384 | Medicaid Reform: Quality of Care in Nursing Homes at Risk |
| 104-0149 | Society's Secret Shame: Elder Abuse and Family Violence (Field hearing held in Portland, ME) | 104-0434 | Health Care Fraud: Milking Medicare and Medicaid |
| | | 104-0489 | Hearing on Mental Illness Among the Elderly |
| | | 104-0490 | Telescams Exposed: How Telemarketers Target the Elderly |
| | | 104-0491 | Hearing on Adverse Drug Reactions in the Elderly |
| | | 104-0517 | Alzheimer's Disease in a Changing Health Care System: Falling Through the Cracks |
| | | 104-0649 | National Shortage of Geriatricians: Meeting the Needs of Our Aging Population |
| | | 104-0654 | Stranded on Disability: Federal Disability Programs Failing Disabled Workers |
| | | 104-0661 | Nutrition and the Elderly: Savings for Medicare (Forum) |
| | | 104-0693 | Suicide and the Elderly: A Population at Risk |
| | | 104-0705 | Social Security Reform Options: Preparing for the 21st Century |
| | | 104-0735 | Investing in Medical Research: Saving Health Care and Human Costs (Joint with Appropriations) |

The reports and documents, which make up a great part of the U.S. Congressional Serial Set, have enjoyed a long history of bibliographic

control through the Documents Index, the Numerical Lists and Schedules of Volumes, and the U.S. Congressional Serial Set Catalog. Despite an obvious need to provide a similar tool for hearings, committee prints and publications, the Federal agencies charged with bibliographic control of Government publications have failed to provide a comparable bibliography for these Senate series.

The bibliographic control tool for Senate hearings, prints and publications is available from a North Carolina academic library. Since the mid-1980s the depository staff at North Carolina State University has maintained database files of Senate hearings, prints and publications. The database files were first compiled from non-cumulative lists that appeared in GPO's Administrative Notes. Since 1991 the files have been compiled primarily from title page proofs supplied to NC State by the staff of the Senate Library.

The fact that an individual's project replaced a Government effort did not go entirely unnoticed. Library Journal reported the situation in its November 15, 1991, issue with the title, "North Carolina Librarian Picks Up Where Feds Left Off."

The first goal of the Senate Bibliographies Project is to provide comprehensive listings of the hearings, prints and publications of the Senate from 1983. This goal is accomplished by a series of Web pages at <<http://www.lib.ncsu.edu/stacks/senatebibs/>>.

Links from the top of this page lead first to a section with a hot-linked list of Congresses, 98th (1983-84) through 105th (1997-98). A click on any of the Congresses takes you to another page where you are presented with the names of a series of files, typically nine files for each Congress. A final click on any of these links takes you to a chosen bibliography. Data is provided in three sequences for the three kinds of documents covered by the project. For hearings, committee prints and

publications, the lists are arranged in sequence number order, alphabetically by committee and within each committee by sequence number, and in title order.

An additional feature allows you to search a single database containing records of all printed hearings, prints, and publications indexed at this Web site, 1983 to date. Only title keywords, committee names and Senate numbering system sequence numbers are contained in the database that is searched, and that is all the information contained in retrieval sets.

Two years ago, after the 1996 Federal Depository Conference, the Senate Bibliographies Project took on a second goal. For the years 1995-96, the number of hearings printed by the 104th Congress was the smallest since the Senate numbering scheme began. The table below gives the highest numbered hearing for the most recent Congresses:

1983-84 (98)	1305
1985-86 (99)	1098
1987-88 (100)	1085
1989-90 (101)	1298
1991-92 (102)	1204
1993-94 (103)	1087
1995-96 (104)	934

To identify a universe of hearings for the 104th Congress, staff at NC State examined the Daily Digest section of the Congressional Record for the years 1995-96, and identified an additional 156 hearings that had not yet been printed. The results of this investigation, which continues, are presented in additional sections of the Senate Bibliographies Web site.

First there are the Senate Report Cards. These statistical summaries record, for each Senate committee, the number of hearings held; show the numbers of hearings printed and unprinted by the Government Printing Office; and assign a numerical grade representing how well each committee informs the nation of its activities by publishing transcripts of its hearings. At

present, there are two Senate Report Cards, one for each of the two years of the 104th Congress. The Foreign Relations Committee has the poorest printing record.

Next, additional bibliographies for the 104th Congress can be found under the "Lists by Congress" section. There is a long file listing in chronological order all the hearings discovered by examining the Daily Digest, both printed and unprinted. At present, this file covers only 1995. Data for 1996 is being edited and will be added to this file soon.

Also here in the 104th "Lists by Congress," and in a separate section called "Lists of Unprinted Hearings," are three bibliographies of unprinted hearings. The bibliographies are sequenced in the same manner as are the printed ones: in numerical sequence order (i.e., by date), alphabetically by committee and within each committee by hearing date, and in title order—the title being that given in the Daily Digest.

These bibliographies of unprinted hearings presently contain data for 1995 only. Similar data for 1996 is being compiled and will be added later. The summary figures for 1996 are available in that year's Senate Report Card, and are being updated as additional 104th Congress hearings are printed.

A keyword title search on the unprinted hearing file can be performed to retrieve lists of unprinted hearings on topics of interest. The committee chairperson holds final say over whether a certain hearing transcript will be published. The list of unprinted hearings from 1995 contains such titles as

Bosnia: Committee held hearings to examine the United States' overall goals and diplomatic strategy in Bosnia, ... Foreign Relations 19950608 Hearings also held on 6/9/95

Conventional Weapons Treaty: Committee concluded hearings on the Convention on

Prohibitions or Restrictions on the Use of Certain Conventional Weapons, and two accompanying Protocols on Non-Detectable Fragments (Protocol I) and on Prohibitions or Restrictions on the Use of Mines, Booby-Traps and Other Devices (Protocol II) (Treaty Doc. 103-25), ... Foreign Relations 19950307

Crisis in Rwanda and Burundi: Senate Committee on Foreign Relations' Subcommittee on African Affairs concluded joint hearings with the House Committee on International Relations' Subcommittee on African Affairs to examine the current crisis situation in Rwanda and Burundi, ... Foreign Relations 19950405

GPO: Committee concluded oversight hearings to review activities of the Government Printing Office, focusing on cost savings and new information services, ... Printing 19950606

Hong Kong: Subcommittee on East Asian and Pacific Affairs concluded hearings to examine United States' interests in the future economic and political stability of Hong Kong after it reverts to the jurisdiction of the People's Republic of China on July 1, 1997, ... Foreign Relations 19950606

These hearings should be available to the American public. Why they are not is a question our elected representatives should be asked to answer.

Does the same sad business of unprinted hearings exist in other Congresses? Very probably. An examination of the Daily Digest for 1993 has been begun which will provide further information on the matter.

Training Non-Documents Staff to Do Documents Reference

Cynthia Teague
Michigan State University
East Lansing, MI

Training non-documents staff to do documents reference has been a topic of interest to me for quite some time. I have heard for years that if documents and general reference share a desk, no one will answer documents questions: patrons will be told to come back when the documents specialist is available.

If documents has a separate reference desk, reference will be done well but no one at the reference desk will think to send patrons to you.

Either way you lose. Or rather, the patrons and the documents collection lose.

The answer is obvious: let's train them about documents. This will fix everything.

Well, maybe not. You give a training session and no one comes. Or everyone comes and nods at what you say but nothing on the desk changes. Pretty soon everyone's interest flags and you're right back where you started.

I believe that Michigan State University (MSU) has one of the more successful combined desks that I'm aware of, and I believe that it is due in large part to our training efforts. I'm going to talk about those efforts today.

However, our situation is unique, and our efforts grew out of historical accidents that probably won't be repeated elsewhere. I find that when I attend "how we done it good" talks like this, a part of my mind is busy

explaining why someone else's solution won't work at my own institution.

So after I talk about MSU, I'm going to ask you to break up into small groups of five or six people. Each group is going to talk about a particular subset of training issues. Because there are so many of us, there will probably be several small groups talking about each issue. I hope that these groups will be able to come up with variations on the programs that have worked for MSU, and that we may together be able to come up with a broader outline of methods for training non-documents staff to do documents reference.

Michigan State University

MSU has a large Government documents collection, including a Federal collection which has ranged from 80-90 percent selective, a Canadian depository collection, a Michigan depository collection, and a very large collection of documents of inter-governmental organizations ranging from the UN and its subsidiary bodies to regional organizations. Reference for these collections was provided at a separate reference desk until the late 1980's when it became necessary for staffing reasons to combine the documents reference desk with the Social Sciences and Humanities (SSH) reference desk on the same floor.

At first the two functions were separate although they took place at the same desk. One person sat on the documents side of the

desk and answered documents questions; another sat on the SSH side and answered social science questions.

This did not prove workable; there just weren't enough documents personnel to cover all the desk hours. Furthermore, as soon as people started trading desk hours the balance was lost.

Here's where something unexpected occurred: the demand for documents was so very high that the non-documents reference staff were forced to learn how to provide documents reference in order to survive. MSU patrons are wild about statistics, and we all know who produces the bulk of the commonly used stats. At one point our desk statistics showed that 85 percent of questions asked at the GD/SSHR desk involved Government documents.

There was no formal training, however; the SSHR staff picked things up on the fly or asked for individual instruction on a particular subject. Some folks were more diligent than others.

In 1993 it was decided that the general reference desk on the first floor would be closed, leaving only an information and referral center (I/R). The general reference staff and their collection would be divided between the two advanced desks: Science and GD/SSHR.

As the time for this change grew closer, we in GD/SSHR grew concerned – the change was going to happen and yet no arrangements had been made for training. Several of us decided to try and develop a desk training manual.

The only notes that seem to remain from this group are two dated four days apart. The first is of a meeting of unit and departmental heads; goals and ambitions are lofty, language is vague. Nothing mentioned at this meeting ever came to pass. The second meeting was attended by a handful of front line reference staff and outlined a prosaic plan:

We agreed that self-paced, written training modules would be the best approach to training so many in so little time. Debbi will consult with Loretta to get her OK for this approach.

If approved, we will provide a suggested format: introduction or overview, if necessary; list of major sources with a description, including hints, tricks, limitations, etc.; 4 or 5 questions which will require using the sources. Already-prepared handouts can be used, but lengthy ones could be edited for conciseness, and questions must be added. Sources could be listed in order of importance or most important highlighted, so in a pinch a person could hit only the most important and go back to others later. The name and phone number of the resource person should be listed for questions or feedback.

We will send the form to staff asking them to prepare modules in their subject areas. We will request them back by a certain date (as yet to be determined), but will require a list from them immediately of the subject areas they are going to do. Then we will have time to see if there are gaps that need to be filled.

The modules will be put into notebooks. We discussed different color paper or sections for prioritizing them in some way – a “you must do these before you can be on the desk” section. We decided we should survey staff for “what everyone should know” lists, from which we can compile a priorities list.

We also discussed general things everyone should know, such as downloading from CDs, how to use the Government Documents shelflist, SilverPlatter syntax, etc. Also things that might be standardized, such as all desks having a stacks map of their areas, lists of catch names for the uninitiated, etc. 5/23/93

So the basic plan was in place: have desk staff prepare training modules in their area of expertise, including questions and their answers. Distribute these to those I/R staff members who would be joining the department.

As we thought about this, we realized that the I/R people would need to train GD/SSHR staff about their resources (esp. biography) and that this was also a perfect opportunity for GD/SSHR staff to train and retrain each other. The final list of topics is:

Desk Training Notebook Modules (1993)

Abbreviations

American History

Anthropology and Folklore

ATL (American Thought and Language)

Biography Sources

Business

Citation Indexes

*Congressional Materials

Education

Ethnic Studies

*Federal Regulations

*European Communities Legislation

*EC Citations

General History

Military and Naval History

Prism

Psychology

Public Policy

Reviews and Criticism

SilverPlatter

Sources for Statistics

*United Nations

*U.S. Population Census

Women's Studies

*Gov Docs Call Numbers

*Gov Docs Reference Overview

*Gov Docs Shelflist Basics

Here are some samples of the documents training that we offered:

[Rather than reproduce these here, I've put several on the GODORT handout exchange Web site.]

I believe that these training efforts worked for several reasons:

1. Modules were discreet; could be done at own pace.
2. Most topics were well-chosen.
3. Handouts gave step-by-step guidance; could be referred to later.
4. No loss of face was involved; people could learn what they were supposed to have already known without embarrassment.
5. We were all motivated to learn fast to prepare for the shift.

The notebook containing these modules has been very helpful. A copy is kept at the reference desk so it can be referred to if necessary. Copies are given to new staff members. Of course the modules become outdated; many were updated in 1995 or 1996.

However, the notebook topics are all pretty basic, and it began to seem that there ought to be a way to cover more specific topics.

Second Hour Sessions

Most Friday mornings there is a meeting of those who serve on the GD/SSHR desk. At various times these meetings have involved training sessions, but it was a hit or miss affair. A year ago we decided to make a concerted effort to hold regular training during the second hour of these meetings.

Desk staff were asked to suggest topics for possible training, and were also asked to develop a training topic in their subject area. The newly formed training committee then drew up a schedule of topics and trainers.

They added to the list of topics, prodded people to choose a subject, and set up a Web site to distribute the information.
[OVERHEAD: Web page topics]

As you can see, topics really run the gamut. What you can't tell is that the presenters are often people who are NOT specialists in that particular area. We've found that sometimes a humanities librarian may have a better grasp of the problems in providing census reference than someone who has worked extensively with the census for years.

For this and other reasons, we have not made these Web pages public, though we do occasionally point a patron to them.

Note that there are comments in here that are useful for staff but definitely not for the public.

As with the books, one of the big plusses of this system is that there is something to which you can refer back later.

Where we are now: we need to keep training topics vital. We believe that training has to be regular or it will cease to occur. At the same time it has to be useful or people will skip it. Best plan at the moment: a suggestion box at the desk so you can toss in a topic when it's fresh.

I hope this has been helpful; clearly there are many other approaches but this has worked well for us so far.

Access to EPA's Information: An Update

Jonda Byrd

Environmental Protection Agency
Washington, DC

"Increasing the flow of information to cities, communities, and private citizens—giving you the tools to improve your quality of life as you see fit—is a very important part of our administrations's commitment to make environmental and public health protection for everyone."—Carol Browner

WWW.EPA.GOV

- Contains over 100,000 html pages
- Receives over 27,000,000 hits per month
- Organized to provide various access points
 - User Categories
 - Topics
 - Search
 - Browse

Current Projects and Initiatives to Improve EPA's Web site

- Cataloging the Web by creating metadata records and conducting a Web inventory
- Developing an environmental thesaurus
- Developing reading rooms on various topics
- Redesign of the home page
- Migrate current Online Library System (OLS) to a Web-based system

Agency Initiatives to Improve Public Access

- Reinventing Environmental Information

- Environmental Monitoring for Public Access and Community Tracking (EMPACT)
- Center for Environmental Information and Statistics (CEIS)
- Enhanced data quality and integration, and development of data standards
- Establishment of an Agency-wide Task Force to review the content of existing EPA Internet information products and make recommendations for their revision as needed
- Task Force ensures that information on EPA's Web site meets the customer needs
- Information is current, appropriate, and approved
- Design standards and Internet guidelines are followed
- Good Web practices are followed

Access to Publications

- On the Web
 - National Center for Environmental Publications and Information (NCEPI)
 - National Environmental Publications Information System (NEPIS)
 - Publications by Program Office

Traditional Access Mechanisms

- National Center for Environmental Publications and Information (NCEPI)
- EPA Libraries
- Federal Depository Library Program
- FOIA
- NTIS

In Conclusion

We have been emphasizing electronic access to information, BUT we are not abandoning our traditional methods. In fact, if we do a good job electronically it will help us to do a better job in providing information through traditional mechanisms.

U.S. Congressional Serial Set

Virginia Saunders

U.S. Government Printing Office
Washington, DC

I trust that many of you are in some way familiar with the United States Congressional Serial Set, or at least have heard of it. The United States Congressional Serial Set is considered a "must" for a law library or any library which is frequented by law students or legal advisers.

Basically, the United States Congressional Serial Set, as it is known today, is comprised of the numbered Senate and House Documents and Senate and House Reports which are bound by Session of Congress. The Senate Executive Documents and Senate Executive Reports were also included in the Serial Set at the direction of the Joint Committee on Printing in 1979, beginning with the 96th Congress. Since that time, the Senate Executive Documents, which were previously alphabetically lettered, became Senate Treaty Documents in 1981, beginning with the 97th Congress, and they are now numbered. All of the above series begin with Number 1 at the beginning of the Congress and are numbered consecutively from the 1st Session through the 2d Session of the Congress.

Under provisions of Title 44 of the United States Code, section 738, the Public Printer is authorized to bind a sufficient number of copies of the Senate and House Documents and Reports and deliver them to the Superintendent of Documents for distribution to "State libraries and other designated depositories for their permanent files." The Public Printer is also authorized to bind Documents and Reports in reserve volumes for the so-called posterity libraries. These libraries are the Senate and House Libraries, the Library

of Congress, the National Archives Library, and the Superintendent of Documents Library collection which is now housed at the National Archives.

The volumes are arranged and bound in the manner directed by the Joint Committee on Printing. Each volume is assigned a Serial Number for identification purposes. The Serial Numbering Plan which we use today was devised by Dr. John G. Ames, who was at one time in charge of the Documents Division of the Interior Department. It began with the 1st Session of the 15th Congress in 1817, and the numbers have run consecutively ever since that time.

The material issued for the first 14 Congresses by both Houses of Congress was merely a series of folio documents to which no numbers or other distinctive symbol of identification was affixed. Therefore, it was not possible to adopt them into the Serial Numbering Plan. However, in order to make them compatible with the present numbering system, they have been assigned a separate set of numbers preceded by a zero. As many of you perhaps know, this material is known as The American State Papers. The Serial Numbering Plan has proved to be an orderly and convenient manner by which to identify and preserve for posterity the vast number of individual Documents and Reports issued by the United States Congress.

For 166 years the bound volumes of Documents and Reports had no official title. They were known only by various popular titles such as:

- the Congressional Set or Congressional Series, because the volumes are made up of Congressional material;
- the Sheep Set, because at one time the volumes were bound in beautiful sheep leather, which unfortunately did not withstand the ravages of time unless it was specially treated periodically (this wording was used through the 59th Congress, which ended March 1907);
- the Serial Number Set, because the volumes are identified by a serial number which is assigned to and appears at the top of the spine of each volume in the Set.

Finally, in 1981, beginning with the 97th Congress, the volumes were given the official title of United States Congressional Serial Set. New stamping and new title pages were designed to indicate this official title.

I might add here that prior to the enactment of the Printing Act of 1895, the Documents Division was under the Department of the Interior. With the enactment of the Printing Act of 1895, the functions were transferred to the Government Printing Office, where they remain to this day.

For some time now, only the reports of Congressional Committees have been included in the Congressional Serial Set. These reports deal with proposed legislation and contain findings on matters under investigation. Sometimes the reports do contain excerpts from testimony given before Congressional Committees, but normally this material is printed in separate form as hearings. Under provisions of Title 44, Hearings can only be printed as Congressional Numbered Documents when specifically ordered by Congress. The documents include all other material ordered printed by both Houses of Congress. This material once included many reports of executive departments and agencies. Some of these reports were submitted in

accordance with Federal law, while some resulted from resolutions requesting information from executive officers. Some were published in the series merely because at one time a specified number of each document printed was made available for distribution by Members of Congress. However, in an effort to reduce costs, and where there is no definite statutory authority to be complied with, this practice has been discontinued. Congressional printing has been drastically reduced.

At one time such departmental publications as the Labor Statistics Bureau Bulletins, the Geological Survey Bulletins, the Water Supply Papers, the Minerals Yearbook, the Agriculture Yearbook, the Statistical Abstract of the United States, the Pocket Data Book, Foreign Commerce and Navigation of the United States, American Ethnology Bureau Bulletins, Foreign Relations Papers, and annual reports of many of the Government agencies were all printed as numbered Congressional Documents and included in the Congressional Serial Set. Foreign Relations Papers were assigned a Document Number and bound in the Serial Set from 1861 through 1957. The Senate and House Journals were also bound as part of the Set. This practice was discontinued at the beginning of the 83d Congress, since the statutes provided only for the binding of Senate and House Reports and Senate and House Documents in the reserve sets and the Journals did not fall within that category.

For a time the Public Reports and the Private Reports were bound in separate volumes. There were also volumes entitled Special Reports. These volumes contained reports on a subject and did not accompany legislation.

Miscellaneous documents and reports are cumulated into a group approximately 2 1/2 inches in depth before being sent for binding. On occasion it has been necessary to make volumes larger or smaller in depth for various reasons. We feel that volumes larger than 2 1/2 inches in depth are difficult for the user to

handle when doing research. Large publications and odd size publications are bound individually and receive their respective titles.

Title pages were not always used in the volumes, but the present practice is to include a title page and a table of contents in each volume containing more than one Document or Report.

The Serial Set is bound in very limited quantity. This is why it is so difficult to replace a lost or missing volume.

Prior to the 96th Congress, which began in January 1979, the complete Congressional Serial Set was not sent to depository libraries and International Exchange libraries. Only 22 copies of the complete Serial Set were bound. This edition was bound in a more elaborate binding and was, and is, an impressive looking set of books. It was also expensive to produce because the gold stamping and colored ink labels on the spine were all hand work. The copies were distributed to the so-called posterity libraries, which, as I mentioned earlier, are the Senate and House Libraries, the Library of Congress, the National Archives Library, and the Superintendent of Documents Library collection, which is now housed at the National Archives.

The edition which the depository and International Exchange libraries received contained only publications of which Congress was the author. This edition was bound in a very plain binding, with black ink stamping, which was less expensive to produce. Departmental publications which originated in the various departments, bureaus, and independent establishments of the Government were sent to depositories in the binding used by the agency issuing them, provided that prior to printing, the library had selected the series governing their distribution.

All Congressional material is printed on what we call a 5-digit jacket, such as (55-213). Most

of the Congressional material is printed in house, since the main purpose of establishing the Government Printing Office was to print for Congress.

A star preceding a 5-digit jacket number is a symbol used by the Government Printing Office to indicate a corrected print. It is commonly referred to as a star print and takes precedence over the original print of a Report or Document. Likewise, a double star print takes precedence over a single star print. Whenever a star print is printed, that print is bound into the Congressional Serial Set.

Much has been done through the years to reduce the cost of the Congressional Serial Set. In 1979 the Congressional Serial Set Committee was established as an advisory committee to the Joint Committee on Printing. The Serial Set Committee was composed of representatives from the various major user libraries of the Serial Set. The objectives of the Committee were to improve the physical makeup of the Congressional Serial Set, to reduce the production cost of the Set, and to provide better access to material contained in the Set.

In an effort to reduce the cost of producing the Congressional Serial Set and beginning with the 96th Congress in January 1979, the special binding for the posterity edition of the Set was discontinued and the ruled border on the cover of all the volumes was also eventually eliminated. Only one edition of the Congressional Serial Set is now bound. Depository and International Exchange Libraries receive the same edition as the posterity libraries. Also beginning with the 96th Congress in 1979, all Reports, both Senate and House, whether they are public or private, and all Documents are arranged and bound in numerical sequence, making it easier for the user. Very little departmental material is now submitted for printing as a Congressional Document and printed in both Document and Departmental editions.

During the 1st Session of the 100th Congress in 1987, background material on the Iran-Contra Investigation was submitted for printing both as a numbered Senate Report and a numbered House Report. The Senate material consisted of 35 volumes and the House material consisted of 30 volumes which were duplicative. I sent a recommendation to the Joint Committee on Printing suggesting that only the Senate material actually be bound as part of the Serial Set. I also recommended that the House material be assigned Serial Numbers in order to include it in the Serial Set, and that it be cross-referenced to the Senate volumes. The Joint Committee adopted my recommendation thus saving over half a million dollars.

In order to further reduce the cost of preparation of the Congressional Serial Set, and because many libraries were having space problems, the Serial Set Committee recommended that the Set be offered to depository libraries and International Exchange libraries in microfiche format as well as the bound format beginning with the 96th Congress.

To provide flexibility in filing and to increase the usability of the microfiche set, only one Document or Report would be put on a piece of fiche. Also, Documents and Reports would be filmed as soon as they were issued and sent to those libraries that chose to receive the microfiche. In order to turn this myriad of microfiche into the microfiche edition of the United States Congressional Serial Set, dividers and a single fiche containing the title page and/or table of contents for each volume is provided at the end of the Congress. Prior to offering the Serial Set in microfiche our total binding count was nearing 1000 copies. By offering the Set in microfiche our total binding count was reduced by half.

Another recommendation of the Serial Set Committee was that the Numerical List and Schedule of Volumes, which is one of the principal finding aids for material bound in the

Congressional Serial Set, should be combined with the Monthly Catalog of U.S. Government Publications. The consensus of opinion was that the volumes of the Serial Set should have full cataloging in the Monthly Catalog. As a result of this recommendation, the Joint Committee on Printing directed the Government Printing Office to combine the Numerical List and Schedule of Volumes and the Monthly Catalog, beginning with the 97th Congress.

The Numerical List lists numerically, with a brief title, all of the Senate and House Documents and Reports issued during a Session of Congress. It also indicates the specific volume of the Congressional Serial Set in which each Document and Report is bound. No alphabetical or subject indexing is contained in this publication.

The Schedule of Volumes lists numerically, by Serial Number, each volume of the Congressional Serial Set as well as the contents of each volume. The Schedule of Volumes is usually planned at the beginning of a new Session of Congress and it is compiled as the Session of Congress progresses. All documents authorized to be printed during the Session must be submitted for printing or accounted for before the Schedule can be completed.

A new publication entitled Monthly Catalog—United States Congressional Serial Set Supplement came off the press in March 1985. It indexed all of the Documents and Reports of the 97th Congress that were bound in the Serial Set and included a List of the Serial Set Volumes. Three-fourths of the publication consisted of various indices and the Numerical Listing of Documents and Reports was omitted, much to the dismay of the users. Based on user response, the Serial Set Committee was asked to meet again to review this new publication and to make further recommendations for changes in the 98th Congress Catalog.

After much deliberation the Serial Set Committee made the following recommendations:

- That the publication should be independent from the Monthly Catalog of U.S. Government Publications.
- That the title should be changed to United States Congressional Serial Set Catalog: Numerical Lists and Schedule of Volumes to more accurately reflect the purpose and contents of the Catalog.
- That the Numerical Listing and the Schedule of Serial Set Volumes should be a permanent part of the Catalog.
- That the Schedule of Serial Set Volumes should be published in Administrative Notes in preliminary form as soon as possible at the end of the Congress, prior to being printed in the Catalog.

Thus, the present publication entitled United States Congressional Serial Set Catalog evolved and was issued, indexing Congressional Serial Set material for the 98th Congress.

Libraries who have selected the bound Serial Set should have also selected Item 0557-A or 0557-B to receive the Serial Set Catalog in either paper or microfiche.

It is not possible to publish the Congressional Serial Set Catalog immediately following the sine die adjournment of a Congress, as there are still many loose ends to be pulled together. However, the Catalog will be issued for each Congress in as timely a manner as relative circumstances will permit.

The Congressional Serial Set contains comprehensive and detailed information on a wide range of subjects. It is a useful reference source for genealogical and biographical research.

The Congressional Printing Management Division of the Government Printing Office is now responsible for the preparation of the United States Congressional Serial Set. Prior to October 1983, the responsibility was under the Superintendent of Documents.

The documents which comprise the historic United States Congressional Serial Set are literally the heritage of our Nation. The Serial Set will always be a valuable reference tool for determining the legislative intent of the statutes after their enactment by Congress.

In this day of electronic technology, I see a real need for continuing input from librarians and historians regarding the preservation of historical documents. The Government Printing Office appreciates your continued input on this important matter.

This is the end of my presentation on the Congressional Serial Set. I trust that I have enlightened you as to its beginning and to its evolution through the years.

Definitions of Material Contained in the U.S. Congressional Serial Set

REPORTS - (*Senate & House*)

Reports of Congressional Committees concerning proposed legislation and/or contain findings on matters under investigation.

SENATE EXECUTIVE REPORTS*

Reports of the Committee on Foreign Relations relating to Treaties between the United States and Foreign Nations which have been submitted to the U.S. Senate for ratification, or are reports of various Senate Committees regarding nomination of individuals.

SENATE EXECUTIVE DOCUMENTS

(Lettered) - Contain the text of a Treaty as it is submitted to the U.S. Senate for ratification by the President of the United States. Beginning with the 97th Congress in 1981, Executive *(Lettered)* Documents became known as Treaty Documents, and they are now numbered instead of lettered alphabetically.

SENATE TREATY DOCUMENTS

Contain the text of a Treaty as it is submitted to the U.S. Senate for ratification by the President of the United States. Numbered consecutively from the 1st Session through the 2d Session of a Congress. Prior to the 97th Congress known as Executive *(Lettered)* Documents, and identified by letters of the alphabet.

DOCUMENTS - (*Senate & House*)

Contain various other materials ordered printed by both Houses of Congress. Documents can include reports of Executive Departments and Agencies, some of which are submitted in accordance with Federal law, then later are ordered printed as Documents. Sometimes, Committee Prints are ordered printed as Documents also, if the information they contain is in demand. Documents have a larger distribution than Committee Prints.

*** NOTE:**

Senate Executive Reports, Senate Executive (Lettered) Documents, and Senate Treaty Documents are synonymous to the U.S. Senate only since all Treaties must be ratified by the Senate and all nominations must be confirmed by the Senate.

All of the above numbered Documents and Reports begin with No. 1 at the beginning of the Congress and they are numbered consecutively from the 1st Session through the 2d Session of a Congress.

U.S. Congressional Serial Set: Its History and Future

Robin Haun-Mohamed
U.S. Government Printing Office
Washington, DC

In September 1997, Congress directed GPO to discontinue distribution of the bound U.S. Congressional Serial Set to all depositories, except the regional libraries, and one library in each state without a regional library. This reduced the distribution counts for the bound Serial Set from over 400 libraries to only 62 libraries, plus the State Libraries, and 14 International Exchange Service (IES) libraries. We are still distributing copies of the bound Serial Set to all libraries profiled to receive them through the 104th Congress. All libraries selecting to receive the slip, or initial distribution of House and Senate Documents and Reports will continue to receive them as they are produced.

GPO was directed by Congress to distribute the Serial Set title pages and/or table of contents pages to those libraries wishing to use the slip opinions to bind their own Serial Set volumes. The most recent item selection survey included an item number for the title pages, and 325 libraries responded to the survey to receive these pages.

The future of the U.S. Congressional Serial Set continues to be discussed within the depository library community, and among many others in the history community. Although the historical past of the Serial Set is a large and important topic, as evidenced by Virginia's discussion, future plans for the Bound U.S. Congressional Serial Set are still in the developmental process. At this time, House and Senate Documents and Reports that are submitted to GPO in electronic format are

being loaded onto the GPO Access server. Some Documents and Reports are also being scanned for loading onto GPO Access when an electronic file has not been sent and the publication is not too large or too graphically intense for scanning. You can access the available online Documents and Reports on GPO Access at <www.access.gpo.gov/congress/index.html>.

There are several technical issues to overcome before a complete, useful and cost-effective CD-ROM Serial Set can be produced. The JCP has directed GPO to "work with the Secretary of the Senate and the Clerk of the House, as well as the ongoing SGML working group, to facilitate Congress' maximum utilization of electronic creation and transfer of information. Such efforts will make possible a complete electronic version of the Congressional Serial Set in the near future." At this time a CD-ROM version of the House and Senate Documents and Reports is not available.

For the first time, the Congressional Serial Set will be available through the Superintendent of Documents Sales Program at a cost of \$15,400 for the volumes of the 105th Congress. Only about 25 libraries have sent a letter of intent, thus the number of copies available for sale will be quite low. Those libraries interested in purchasing the Bound Congressional Serial Set should contact Alan Ptak, Chief, Sales Management Division, at (202) 512-1709 as soon as possible.

As evidenced by your attendance at this presentation, the Congressional Serial Set continues to be of interest to librarians, historians, and those wishing to preserve access to the source documents of our nation. Please continue to relay your needs and concerns for the future of the Serial Set to GPO. Your recommendations may have a real impact on the development of an electronic format appropriate to provide the long term access that is available via the distribution of the bound paper volumes.

Web-Based Library Instruction for Government Documents

Stephen Allan Patrick
East Tennessee State University
Johnson City, TN

Depository librarians are charged with making their collections more accessible to different audiences in a variety of ways. One of the avenues available to academic librarians is through library instruction, either basic or specialized. With the advent of the Internet and other electronic means, Web-based library instruction is becoming more prevalent and can be used in multiple settings. While depository librarians tend to instruct users in a one-on-one setting, being able to reach larger groups or entire classes at a time is highly desirable.

For those of us who have participated in library instruction at our respective institutions, there are a variety of challenges which prevail and serve as deterrents to overall learning. These basic challenges include the time of day, food or caffeine deprivation, sleep deprivation, the lure of different forms of entertainment, or the lack of teaching faculty present during the instruction session to name a few.

With the advent of electronic resources, various student or user needs have been determined to be most important. Among these basic needs are the ability to define sound search strategies, how to select and use the multitude of search engines available, how to evaluate electronic sources for appropriateness and quality information, and how to cite the electronic sources selected.

Many librarians have come to realize that there are definite student or user benefits to Web-based library instruction. Web-based

instruction can accommodate different learning styles and abilities of students and allow for unlimited drill and practice of important materials or resources. This form of instruction also allows greater flexibility for students who are self-directed or motivated, as well as provides a variety of resources to distance learners or users beside those who found your library's Web site serendipitously.

There are also a variety of librarian or faculty benefits to Web-based instruction. One of these benefits includes better facilitation of resource management. We all understand the importance of current information and most resources can be updated more frequently electronically. Instructors have easier access to information during Web-instruction sessions and they don't have to lug around book trucks loaded with potential resources. Cost-saving factors are in place in many institutions and Web-based instruction can help reduce internal/external printing and copying handouts which become outdated the moment they are done.

Another benefit of Web-based instruction is that it can allow instructors to cover additional or more appropriate materials in less time, as well as allow for flexibility during an instruction session to go off on tangents and explore other possibilities. However, one of the greatest benefits to instruction, if pursued or marketed appropriately, is that it can increase collaboration between librarians and teaching faculty in providing relevant

bibliographic and electronic resources for students.

Of course, there can be a downside to this type of activity as well, and that includes increased expectations of students, users or faculty alike. Instruction Web pages can also increase the workload of already overburdened librarians and staff, as well as create a false sense of security when providing well-meaning and additional support for faculty.

There are a variety of primary objectives which can be derived from Web-based instruction. Web pages can serve as an effective instruction tool. Personal notes can be tracked for future sessions, many of which may become Web pages in their own right. Resources, such as syllabi, class assignments and selected readings, provided by teaching faculty can enhance the library instruction Web page or, if provided by faculty, can serve as links to library Web pages.

The key rule to good Web page design used for library instruction is to keep it simple. A lot of graphics are not necessary. It's the information that's most important. However, if you use a lot of graphics, remember to include a text version for those who don't have access to high-powered PC's. Also use bold font if your library uses a projector for presentations. One should also not use anything smaller than font size = 3 if projecting images on a screen. This should allow a greater number of students to see the information.

When preparing Web pages for library instruction try to include several basic features. Standard links should be made to a listing of search engines, a variety of electronic evaluation tools <<http://www.etsu.edu/library/eval-www.htm>>, and examples on citing Web resources <<http://www.etsu.edu/library/citing.htm>>. Your pages should also include a variety of both print and electronic bibliographic resources owned or accessed by your library.

Library instruction Web pages should link a variety of Web resources, such as other depository library home pages in your state or region, and GPO gateways. Of course, no Web page should be without obligatory links to GPO Access <http://www.access.gpo.gov/su_docs/>, the Federal Web Locator <www.law.vill.edu/Fed-Agency/fedwebloc.html>, GovBot <www.business.gov/Search_Online.html>, and the GODORT handout exchange <www.lib.umich.edu/libhome/Documents.center/godort/bibl.htm> to name a few. Remember to include the URL alongside the name of the Web site for those who need to print a hardcopy of your Web page for future reference.

Value-added information will enhance your library instruction Web site in the eyes of your users, besides giving you extra help or reminders to special materials found in your collection. Suggested value-added resources may include a list of topics from useful ready reference materials, outlines of articles from major related reference tools, specialized or customized bibliographies on hot topics, case and legislative histories.

In summary, Web-based library instruction when well-prepared: allows for:

- better organization of resources on a variety of levels
- adds ease of use from versatility of design;
- enhances the overall learning experience for students and instructors;
- generates constructive interaction between teaching faculty and librarians;
- facilitates resources management; and
- increases librarian/faculty collaboration or interaction.

This presentation focused on the way the East Tennessee State University Libraries has approached the concept of library instruction in an electronic environment and how a similar approach can be used in providing both minimal and value-added access to depository items and collections. The ETSU Libraries home page <<http://www.etsu.edu/library/etsulibs.htm>> is designed and conceived with access and classroom instruction as a primary objective. Their Web pages are continually being evaluated for user-friendliness and redesigned for greater flexibility in classroom utilization.

NTIS/GPO Electronic Image Format Pilot Project

Sandy Schwalb
U.S. Government Printing Office
Washington, DC

Introductions

Good afternoon. I am Sandy Schwalb with the Government Printing Office (GPO). Last month I joined the staff at GPO as a permanent employee. For 18 months prior to that, I was a temporary "expert consultant" at the agency as part of the Electronic Transition Staff. Before coming to GPO I was with the Special Libraries Association for 10 years and from 1975-1986 worked on Capitol Hill in the office of a U.S. Senator. From 1990-93 I served on the Depository Library Council.

I am pleased to have the opportunity to be a part of this panel to discuss the pilot project, on which we are all working, between GPO and the National Technical Information Service (NTIS).

I have been asked to serve as the moderator for the panel and as such I will introduce the other speakers.

Although Kris Vajs has never been a depository librarian, she has spent virtually her whole career working with documents. Her first library job was in Minneapolis Public Library's Municipal Information Library. Kris spent 19 years at the Congressional Research Service, Library of Congress, where she was involved with database creation, imaging, document delivery, and the creation of research tools. For the last 18 months, she has been at NTIS, where she is responsible for database creation and online help desk.

Linda Kennedy is Head, Government Information and Maps Department, University of California at Davis. She has been a documents librarian since 1971. She is past Chair of the Government Documents Round Table of ALA and a former member of the Depository Library Council.

Duncan Aldrich is Head, Business and Government Information Center, University of Nevada, Reno. He is currently a member of the Depository Library Council and spent one year, July '96-July '97, as a member of the Electronic Transition Staff at GPO.

The Pilot

As you are no doubt aware, an Interagency Agreement (IA) was signed by GPO's Superintendent of Documents and NTIS to establish a pilot project through which NTIS will furnish U.S. Government information products in electronic image format to the Federal Depository Library Program (FDLP). In order to assure free public access to these products, the GPO, as the administrator of the depository program, and NTIS have agreed that products delivered as part of the project will be subject to the rules surrounding the use and accessibility of material in the depository program.

I hope that many of you saw the announcement on GOVDOC-L seeking volunteers for the pilot project. Both Linda and Duncan can fill you in on more of the details about how their institutions are going

about selecting and accessing the image files from NTIS and Kris will talk about the work she has done to get the project up and running at NTIS.

Kris and Linda have been working together on the initial phase of this pilot. Now that a formal agreement is in place, GPO would like to go ahead with identifying additional libraries. NTIS has asked that 20 libraries be added to the pilot on a phased-in basis. We would like to include a variety of libraries in the pilot, ranging from technologically higher-end institutions to libraries that have an interest in obtaining this information, but might not have high-tech equipment.

We have 25 volunteers at the moment. Following this conference, I will be getting back to everyone who has expressed an interest in being part of the project with more details. We should be ready to choose all 20 libraries by early June.

And now I would like to turn this over to Kris Vajs.

NTIS-GPO Imaging Pilot Project

Kristin M. Vajs

National Technical Information Service
Springfield, VA

The Vision

The American Technology Preeminence Act established procedures for Federal agencies to transfer unclassified information resulting from Federally funded research and development activities to the National Technical Information Service (NTIS). In the regulations implementing the act, NTIS proposed giving the depository library community free access to the agency's document image files as soon as it was technically feasible. NTIS offered to do this in the public interest, assuming all costs associated with preparing and disseminating the image files.

This vision was reiterated in greater detail in GPO's 1996 Study to Identify Measures Necessary for a Successful Transition to a More Electronic Federal Depository Library Program. In a document submitted to the working group, NTIS offered to provide depository libraries with access to its collection of documents in electronic format at no charge, as often as needed, and without time limitations. Depository libraries were only asked not to release the document image files outside the library or to allow the files to be used for commercial purposes. No restrictions were placed on the use or redistribution of printed documents. The proposal also suggested that a group of 20 depository libraries test the feasibility of the concept.

The Vision Becomes Possible

In the fall of 1996 important developments occurred which enabled us to begin implementing the vision.

1. Electronic Ordering via the Web

NTIS put into place an online ordering capability called OrderNow Online. This Web-based service provides a mechanism for placing and transmitting document orders electronically, 24 hours a day, 7 days a week. OrderNow Online covers documents received by NTIS during the last 90 days.

2. Image File Availability

Another factor which increased the viability of the project was a substantial increase in the number of documents available in electronic format. In September 1996 the Department of Energy joined the Defense Technical Information Center (DTIC) in transmitting documents to NTIS in image format. At this time, NTIS also began scanning documents in the collection for which orders had been received.

3. A Test Site

Linda Kennedy offered the depository library at the University of California (UC) at Davis as the first test site. The participation of the UC-Davis Library was crucial because it allowed us to demonstrate the feasibility of the vision prior to orchestrating the extensive interagency support necessary for expanded testing.

The Pre-Pilot Project

Several months of conference calls between Linda's team at the University of California at Davis and the NTIS team followed.

Meticulous planning covering both technical and policy issues was necessary before the pre-pilot project could begin. We sought solutions to such problems as how NTIS would indicate which documents were available in image format, how UC-Davis would make the documents available to users, and how an order-taking system that was prepared to accept either credit card or deposit account numbers could be successfully adapted to this project.

At NTIS, staff in seven different offices in four directorates were involved in either advising or working on the UC-Davis project. One of the biggest challenges we faced was trying to link stand-alone automated processes into an integrated system. Many of the pieces of what we were trying to do were there—we could take an order electronically, we could create an image file, but automated links between these processes did not exist. Human intervention was ultimately necessary to run the pre-pilot project. Fortunately, ongoing development work at NTIS will transform this situation.

Once the feasibility of the endeavor was demonstrated, many people at GPO and NTIS worked to get administrative support the project needed. NTIS wanted the pilot project to be operated under the sponsorship of the Federal Depository Library Program. On the road to getting the interagency agreement governing the pilot project signed, there was consultation with the NTIS Advisory Board, the Depository Library Council, the Joint Committee on Printing, and discussions at the highest levels at GPO and NTIS.

During the past year we have done more than send documents to UC-Davis: we developed the infrastructure, technical and administrative, which now allows us to broaden participation in the project.

Time for Another Quantum Leap

There are a number of technological and work process developments taking place at NTIS which will substantially benefit the pilot project.

1. Increase in number of documents available in image format

The range of documents included in the project was dramatically expanded when NTIS began scanning virtually all incoming documents in October 1997. Documents are scanned immediately after it is determined that they are unique to the collection. Cataloging and indexing follow directly afterwards. This new work process greatly increases the number of documents available through the pilot project. We estimate that approximately 40,000 Government documents are currently available in image format, and this number is being increased by nearly 3,000 each month. All incoming documents in the "PB" series are now scanned, except in the few cases where full color graphs, charts or maps preclude such treatment. This scanning also improves the timing of NTIS document delivery functions, because it assures that documents are available in any format, including image files, at the point when they are announced through commercial versions of the NTIS Database or through our Web site.

Our capacity to deal with incoming documents in electronic form is also being enhanced through the development of an electronic document processing workstation. We are receiving an increasing number of requests from agencies that are interested in sending their documents to us electronically. We have systems currently in place to deal efficiently with large scale electronic transmission—collections from DTIC and DOE—but our capacity to deal with a few documents coming from many places has been limited. Our new workstations will allow us to retrieve, view and catalog documents and then send them on to a conversion workstation connected to the

document storage system. Documents received in word processed or PDF formats will be converted to the TIFF format before storage as part of the NTIS electronic archives.

2. Fully Automated Delivery of Image Files

The linking of our automated ordering service with the automated generation of an image file is also imminent. In May, NTIS will launch a new service, which is driving the development of tools which will also be useful for the depository library project. TDP/MIS (Technical Data Package/Material Information System) is a Web-based document ordering and delivery system. Government contractors and manufacturers will be able to search for Department of Defense solicitations of interest and then view online the entire technical package requirements for the solicitation. The technical package consists of industrial standards and military specifications that products provided by bidders must meet. The TDP/MIS ordering component includes a shopping cart where the user places documents while browsing the system. At checkout time, the user pays for the documents with a credit card, electronic money or a deposit account. The documents can then be downloaded by the user immediately.

Generalizing capabilities developed for the TDP/MIS project, in the near future we hope the pilot project will work as follows:

- a) The user will identify a document using the Technical Reports File on the NTIS Web site and submit an order electronically. The Technical Reports File covers NTIS document receipts over the past ten years. (By using the Technical Reports File rather than OrderNow, the number of documents libraries have access to will increase greatly.)

- b) The ordering library will receive an e-mail message indicating that the order has been received.
- c) The ordering library will receive an e-mail message, only hours after the first message, saying that the document is ready to be picked up on the NTIS server.
- d) Participating libraries will decide whether to make documents available through a directory; transmit them directly to the requester on their local area network; or print the document.

NTIS plans to fully automate the request fulfillment system that will allow requests to be submitted and filled 24 hours a day, 7 days a week. Automation will expand the hours the service is available and improve response time, particularly for libraries in other time zones. NTIS staff time will only be necessary in setting up new participants or if system problems arise.

3. Safeguarding the Electronic Archives

NTIS is also taking steps to safeguard its electronic archives. A tape backup is prepared for each document that we scan. Within the next 6 weeks we will have an offsite storage site for the backup copy. TIFF images are currently the de facto industry standard. TIFF was also the format choice made by the CENDI agencies, an interagency information planning organization which includes DOE, DTIC, NASA, and NTIS. However, NTIS will also have the capacity to convert documents to other formats should that prove necessary.

4. Project Communication

Over the course of the pre-pilot we have used GOVDOC-L as the primary way of keeping the Government documents community informed about our progress. NTIS is developing a Web page geared to the interests of libraries and information professionals. The page will

feature up-to-date information on the pilot project as well as offering a virtual tour of document processing and ordering operations. Additionally, NTIS will host a listserv for pilot project participants to facilitate the sharing of questions and information. Facilitating communication among project participants will make it easier for selected libraries to get started and easier to solve any problems that may arise.

Future participants will have the option of picking and choosing among several ways of running the project identified by the early participants or of developing their own paths. Librarians will make those decisions based on what's best for their institution, the level of technical expertise available and the amount of time available to devote to the project. Later participants will benefit from having a peer group to assist them in getting started, as well as help from NTIS and GPO.

Conclusion

This project presents an alternative model for providing access to Government information via the Internet. If resources are unlimited or document collections relatively small, then documents can be maintained on Web sites indefinitely. NTIS has proposed a cost effective way of providing the depository library community with access to a large Web catalog of documents, the full electronic text of which can be provided quickly and in a standard format, on request.

The NTIS-GPO Imaging Pilot Project: Q&A

What types of documents are covered by the project?	Documents produced by the U.S. Federal Government which are available on the NTIS document imaging system are included in the pilot project. Most of the documents available were issued from 1996 to date. Materials which are copyrighted or which require NTIS to pay a royalty to the document creator are not included as part of the project. NTIS-produced CD-ROMs, datafiles, audio-visual products and databases are not covered by the program.
How many documents will be available to pilot participants?	Currently, we estimate that we have about 40,000 documents of the type described above on the NTIS document imaging system. This number will grow at the rate of approximately 3,000 a month.
How will institutions be selected for participation in the pilot project?	GPO will select the institutions that will participate in the pilot project.
Are there any costs for participating?	NTIS will assume all costs associated with handling the requests and creating the image files. Participating institutions will need to absorb or charge the user for the cost of printing documents.
What is the timeframe for adding libraries to the pilot project?	Three or four libraries will be added in a June-July 1998 time frame. Additional libraries will be added when the request fulfillment process has been automated.

<p>What are the characteristics of the image files?</p>	<p>The average NTIS document—about 100 pages, TIFF images in a Postscript wrapper—is roughly five megabytes in size. These documents will take time to download and space to store. Viewing online may be slow, depending on the type of equipment a library has. Ghostscript or Ghostview is a public domain TIFF viewer that will run on most PCs.</p>
<p>In general terms, how will the project work?</p>	<ol style="list-style-type: none"> 1. The user will identify a document using the Technical Reports File on the NTIS Web site and submit an order electronically. The Technical Reports File covers NTIS document receipts over the past ten years. 2. The ordering library will receive an e-mail message indicating that the order has been received. 3. The ordering library will receive an e-mail message, only hours after the first message, saying that the document is ready to be picked up on the NTIS server. 4. Participating libraries will decide whether to make documents available through a directory; transmit them directly to the requester on their local area network; or print the document.
<p>How may a library or a library's clients use the documents received?</p>	<p>Within the library's community, patrons may view, print, or download the images. The documents may be made accessible from an institution's intranet or institutional network. The documents may not be posted on servers accessible to persons outside the library's user community.</p>
<p>How will the pilot project be evaluated?</p>	<p>GPO and NTIS, with input from participating libraries, will develop an evaluation plan. NTIS may also elect to study the impact of project participation on sales in a given geographic area.</p>
<p>Are there restrictions on the number of documents that can be ordered?</p>	<p>Participants are asked to limit their orders to 5 documents per week until the request fulfillment process has been fully automated.</p>
<p>What will happen at the end of the pilot project?</p>	<p>NTIS and GPO are optimistic that the project will be successful and are hopeful that a successful outcome would result in the continuation and expansion of the project. The interagency agreement between NTIS and GPO does not have an ending date, meaning that the project will continue as long as the two parties to the agreement are willing to continue it.</p>

Report on a “Pre-Pilot” of a Project to Deliver NTIS Electronic Image Files to a Depository Library

Linda Kennedy
University of California, Davis
Davis, CA

Background

The University of California, Davis Library is a large research library of over two million volumes. It has been a Federal depository library since 1953. We provide public service for Government information, maps and microforms at the Government Information and Maps Reference Desk. We have a strong collection of technical report literature, used most heavily by the environmental sciences. We first became aware of the NTIS pilot project proposal through the March 29, 1996, draft report by the Government Printing Office (GPO): Study to Identify Measures Necessary for a Successful Transition to a More Electronic Federal Depository Library Program. I reviewed Task 9 (appendix D-11 of the Study) for GODORT and the Coalition of Many Organizations. I was intrigued by the NTIS proposal to “provide depository libraries with online access on demand to the electronic images of Federally funded scientific, technical and engineering publications in its collection...” I had participated in a Depository Library Council review of the NTIS Preview Project in 1994/95 and was interested in helping to develop a formal and quantifiable pilot project.

On April 25th of 1996, I spoke with Don Corrigan, Deputy Director of NTIS, to obtain more information about the project. The UC Davis Library Administration and the campus Information Technology Department were

enthusiastic when I described the opportunity. Information Technology had just acquired a Xerox DocuTech printer and was setting up a campus intranet to handle electronic reserves and other Web printing. We responded that we would be interested in participating, and NTIS said they would keep us in mind. As it turned out, UCD was the only library that contacted them, and we were contacted by project manager Kris Vajs, in November of 1997 about assisting NTIS in a “pre-pilot project” to work out the bugs in the system before NTIS embarked on a formal pilot project. Recent experience with setting up an electronic delivery system through Kinko’s outlets indicated that some preliminary work would be desirable. The technical obstacles that Kris had to overcome demonstrated the value of the pre-pilot approach.

The project at UC Davis has been fully operational for nine months. We successfully requested over 40 documents. We are now entering a second phase, shifting procedures from Information Technology equipment elsewhere on campus to a library computer and printer.

In the first phase of the NTIS pre-pilot project, we divided our work into six major tasks.

First Task: Establish a Local Team to Address Technical and Public Service Issues

We established a local campus team, with

representatives from Government Information, the Physical Sciences Library and our Systems department. The representative from Information Technology handled all of our technical operations.

Second Task: Test Delivery of Electronic Files

Our first sample files, most of them AD, DE, or PB reports, were delivered via FTP in November of 1996. The quality of the images varied, depending on whether the document had been scanned. (Old mimeographed documents do not look much better after scanning, although the quality of the print is higher than from a microform of the same mimeo.) NTIS receives documents electronically that have been scanned by the agency, or are original in electronic format, and they also scan documents themselves. According to an early communication from NTIS, the average size of the documents was 20 megabytes and at 14 kilobytes per second transfer rate the average transmittal time is 24 min. Files are Postscript Level 1. Kris Vajs said recently that some smaller files may be made available in PDF.

We elected to convert the documents to Adobe Acrobat files for viewing and printing, because in the Postscript format the files were much too large to view or print through standard personal computers using viewers such as Ghostscript. Adobe Acrobat downloads one page of information at a time. Standard machines used in public service now are faster, with more RAM and disk space. Some pilot libraries may wish to experiment with using Ghostscript to read Postscript files.

Technical Requirements

Receiving files: Technical staff at Information Technology began processing the Postscript test files with a Pentium 90 Server with 128 megabytes of RAM, and a 2 gigabyte hard drive, but the test files soon exceeded the capacities of the machine. They then migrated the process to a Dual Pentium Pro 200 with

512 megabytes of RAM, and a 4 gigabyte hard drive, and the process stabilized considerably. We received about 40 documents in this manner. After the first few, we had no problems. In phase 2 of the project at UC Davis, we are using a server running Windows NT 4.0, with Dual Pentium 100Mhz processors and 128 Mb RAM and two 2-gigabyte hard disks. I asked our technical person to review the draft 1998 Recommended Specifications for Public Access Work Stations in Federal Depository Libraries. For those specifications that were relevant to this project, the recommendations were adequate, except that 128 megabytes of RAM would be needed, instead of the 34-64 Mb in the draft.

Viewing: To view the images, we originally used a 486 PC workstation with Adobe Acrobat Reader and 16 Mb of RAM. We are currently using Pentium workstations with 32 Mb of RAM with the Adobe Acrobat Reader.

Printing: Information Technology uses a Xerox DocuTech 6135 for printing. For the library user, printing an image file is a much superior process over printing from microfiche: the printed product is much higher in quality, the print is done as one request (rather than a separate print for each page), and the cost is less (microfiche printing is 15 cents per page, compared to 6-10 cents per page for the printing of the image files). Prints can be tape-bound, hole-punched, or double-sided if desired. It is our intent to do more testing on printing documents, on our library machines, to see if we can print documents for acquisitions purposes locally on less advanced machines.

Third Task: Develop a Mechanism for Identifying Titles Available in Electronic Format

Project participants, and those interested in ordering publications that have been received by NTIS in the most recent 90 days, use the NTIS OrderNow database. Initially, to request

some test files, we had to guess which titles might be in electronic format. Kris Vajs worked at the NTIS end to devise a mechanism to enable the user to identify reports that were in electronic format and to limit searches to those available in image format. NTIS added the phrase “ADSTAR” to the order fields for an electronic format document. The rest of the price field indicates paper and microfiche prices. Electronic documents cannot be purchased as image files, but can be delivered in that format. The price field is not searchable, however, so the phrase “Image format” was added to the end of the abstract in the OrderNow database. In order to limit a search to image files, you add “image ADJ format” to the abstract box on the NTIS OrderNow search screen.

The NTIS ten-year Web database, as Kris indicated, does not contain the image availability information. When that database is reconfigured, the expectation is that those publications will also become available for request in image format.

Fourth Task: Develop a Mechanism for Requesting Publications in Electronic Format

NTIS developed its OrderNow database to provide Web-based online ordering of priced publications in paper and microfiche. We were able to adapt that mechanism, which I will demonstrate, using overhead projections taken from the Web screens.

The OrderNow Web address is <<http://chaos.fedworld.gov/ordernow/>>. We generally go there from our technical reports home page <<http://govdoc.ucdavis.edu/Federal/techreports.html>> or the UCD/NTIS pilot project home page <<http://libntc.ucdavis.edu/>>. You fill out the OrderNow search screen, placing “image ADJ format” in the abstract field box. From the search results screen, you select titles, review the abstracts, and click on “Add Item to your Order” to begin and add to your order list. When you are ready to order, click on “Review Your

Order” which lists all of the titles and the prices. We have always just listed the paper format, but make sure ADSTAR is also in the field. Then click “Express Checkout,” filling out all the required information (required by the system, so there is little you can skip). Under Payment Information, we enter our depository library number in the NTIS Deposit Account number box. After ordering, a confirmation number is immediately generated. We can use this number when following up. At the NTIS end, staff identify the project requests, forwarding them to designated staff who locate the requested image files. The requested files are FTP’d to a UCD address and directory, generally within 48 hours.

Fifth Task: Develop Local Service and Collection Development Parameters

At UC Davis, requesting NTIS image files is a mediated process. Librarians identify files for requesting through the reference process. Most NTIS queries received in reference, of course, are for specific citations. Those doing a general subject search may not find a relevant publication in the 90-day database. We also have not publicized the service to the public, or integrated an OrderNow search into the routine search process. Consequently the volume of OrderNow requests is very low. It would increase significantly if one could identify and request image files in the ten-year NTIS database.

Who should have access to the service? Information vendors or “resellers” may not request documents. We already have loan policies in place that preclude loans to information vendors or others on behalf of a second party.

Who else has access? Something to consider is whether requests for NTIS documents constitute an interlibrary loan. If so, only certain categories of borrowers have access to the service. We have not considered the pilot project service to be an interlibrary loan.

However, the service is not quite the same as accessing a work over the Internet. A request has to be made, the user notified, and the file purged after use.

What should be the local limits on access to this service? At our institution, we do not have much use by local companies. That is not the case in many depositories. Should the librarian or another staff person in a local company in your congressional district be able to come in and request NTIS documents—documents they might otherwise have purchased? The loss of business in this manner might become a concern to NTIS.

We also need to explore collection development issues on the campus level. Should we use OrderNow for acquisitions, printing off titles for permanent retention, when we could obtain them in image format any time they are requested?

For acquisitions purposes, it would be very helpful if OrderNow incorporated a browse feature that permits review of titles added to the database during a specific time frame. The demise of the printed Government Reports Announcements has eliminated the ability to see all of the new titles added to the database.

Sixth Task: Develop a Mechanism for Delivering the Information to Our Users

We elected to create a Web page <http://libntc.ucdavis.edu/NTIS_Docs/> which links to a directory listing of the titles received via FTP. We can automatically purge the titles after a preset time.

After the titles are FTP'd to the appropriate UC Davis directory, an automatic process runs at a specified time each day to convert newly received Postscript files to PDF format. In the first phase of the project, we developed a program to apply a password to each file, since the directory was accessible through the WWW from anywhere. In the second phase of the project, consistent with the NTIS/GPO

interagency agreement, we have limited access to campus IP addresses, and no password is required. Users can simply be told to keep an eye on the directory, and no notification is required by our staff.

Initially, the project's guidelines precluded our delivering a publication in electronic format. It could be viewed and printed, but not downloaded. The project guidelines are now more flexible, and a user would be able to download the work. This is the advantage of making the reports available on a campus Web site—campus users can download to their own PC's or Macs. We verbally inform users that if they download the report, they are not allowed to put the text on a publicly available Web site. What if users do not comply? NTIS has indicated they would discontinue a library's participation in the project if there appeared to be abuse.

Conclusion

Future tasks in the pilot project include developing a more automated system of making requests. In order to add a significant number of participants to the NTIS pilot project, NTIS will have to either dedicate additional staff to the project, or automate the request and delivery process, which now requires human intervention at several steps. On the institutional level, we would also like to make the requesting process more automatic, and possibly patron-initiated. We have also not determined how statistics would be kept. Ideally, statistics could derive from the request/logging process.

Our working relationship with Kris Vajs has been harmonious, and she deserves a great deal of credit for her persistence in working out the details of providing searchable indicators of image availability, and developing a mechanism for requesting the items online. After hearing about the extensive development efforts for DOE and ERIC document distribution, I am especially impressed with Kris Vajs' accomplishments.

For NTIS electronic distribution was not intended as a normal distribution channel for technical reports, and is not a revenue-producing activity. Staff must be pulled away from other projects that fund the agency.

The on-demand access we have been testing offers many possibilities for enhanced service to users of depository libraries, and the NTIS/GPO Interagency Agreement is an important step toward expanding access. Should electronic delivery also be an NTIS sales option? Although paper and microfiche are still primary forms of distribution, electronic format would be useful for a number of users, and NTIS may consider developing this option in the future. The pilot project can provide useful data for assessing interest.

Lastly, I would like to note that the NTIS historical and archival set of technical report literature is a national treasure. We must assure its survival amid sporadic attempts to abolish or reorganize the Department of Commerce, and we need to encourage NTIS to ensure the longevity of its electronic documents, including backing up electronic files and migrating them to new formats.

Web Page Template for Government Information

Cathy N. Hartman
University of North Texas
Denton, TX

Are you interested in providing your library users with convenient access to government information on the Web, but find yourself too busy to search for the perfect sites, and design a Web page? Check out the ALA GODORT Government Information Technology Committee's (GITCO) Web page template, created by Cathy Hartman, University of North Texas Libraries, and Larry Schankman, Mansfield University.

To view the Template and Help pages, connect to:

<<http://www.library.unt.edu/gpo/template/index.html>>.

The Web page template has sections for:

- Federal Government: General Information
- Federal Government: Legislative and Regulatory Information
- State Information
- International and Foreign Information
- Statistical Resources
- Additional Resources

This Web page template has been developed to help the librarian at a small- or medium-sized library add a government information component to its web page with ease. With minimal alterations, this template can be added to a library's Web page to provide access to publications of all levels of

government. Links to key sources of government information have been selected, and only stable sites were chosen in order to reduce the amount of maintenance required to keep the page current. The accompanying Help/Readme page offers hints and tips for the novice that allow easy alteration of the Template.

Help sections included are:

- Getting Started
- Adding Local Information
- Down loading/Adding New Links and Adding Graphics
- Removing Template Sections
- Adding Requests for Comments (<mailto:>)

LandView III and the CEIS Digital Library of the State of the Environment

Brand L. Niemann

U.S. Environmental Protection Agency
Washington, DC

Introduction

LandView III is an innovative public domain mapping package (Marshall, 1998) that displays EPA-regulated sites, selected 1990 Census data, TIGER/Line 1995 detailed road networks, and USGS schools, public buildings and other important community sites. The EPA databases include: air facilities, air quality monitoring sites, Brownfield Pilots, hazardous waste facility information, hydrologic area boundaries, Superfund sites, toxic release inventory sites, and waste water discharger sites (see <<http://www.census.gov/apsd/pp98/pp.html>> for the product profile from the Census Bureau).

LandView delivered on the Web and CD-ROM has been credited with supporting the democratization of Government spatial databases by making them readily available in an easy to use form (Federal Computer Week, September 22, 1997). In fact, LandView III is the kind of "societal GIS that is easy, fast, relevant, affordable, and accessible" that the GIS industry is moving towards (Dangermond, 1998). The 1998 Recommended Specifications for Public Access Work Stations in Federal Depository Libraries, April 20, 1998, include LandView III as suggested applications software.

LandView has its origins in EPA's need to visualize the location of sources of pollution with respect to the surrounding community infrastructure which is important for at least four reasons:

1. Emergency Planning where LandView has been used by local governments to plan for chemical emergencies;
2. Community Right-To-Know laws where citizens have a right to know the nature of chemical hazards in their neighborhoods;
3. Environmental Justice where EPA and other agencies are required to insure that disadvantaged populations are not disproportionately exposed to pollution; and
4. Risk Management Plans (RMPs) to provide offsite consequence analysis guidance required by regulations.

The release of LandView III has expanded its utility by developing partnerships with other Federal agencies to include their national spatial databases, particularly the USGS which has begun to use LandView III for publishing scientific geospatial databases. LandView has also been available for download for individual counties from the RTKNet (see <<http://rtk.net/landview>>). The Right-To-Know Network is an independent, non-profit organization, not part of the Environmental Protection Agency. There have been over 40,000 downloads of LandView II and III from the Internet to date.

The new 11 CD-ROM LandView III includes a Guided Tour Tutorial as well as LandView Help and Technical Documentation. EPA

also offers LandView training classes, and the manual, Every Community's Right to Know: A Guide to Community Outreach and Education on Environment & Health Information, includes the use of LandView in developing so-called community profiles of environmental and health data. The LandView III installation Readme file is included in Appendix A.

The New EPA Center for Environmental Information & Statistics (CEIS)

In February 1997, EPA Administrator Carol M. Browner announced creation of the Center for Environmental Information and Statistics (CEIS) as EPA's new one-stop source of integrated, cross-media data and information on environmental quality, status and trends. CEIS's customers are EPA's national, regional, state and local audiences for environmental information.

These audiences are diverse, ranging from:

- community citizenry in search of information about environmental conditions where they live;
- state and local Government decision makers;
- congressional staff, lobbyists, and industry consultants in search of data supporting various positions and policies;
- scientists and academics in need of consistent environmental data of known statistical quality.

CEIS is focusing on initially providing three tools and content vehicles on the Agency's Web site to be released August 5, 1998, namely, environmental profiles, a digital library of environmental quality, and an atlas <<http://www.epa.gov/ceis>>.

The first tool that community citizens usually want and need is a paper map. Unfortunately, the available paper maps usually do not show the locations of the facilities in EPA's databases. In the meantime, EPA provides electronic maps (see "Maps on Demand" at <<http://www.epa.gov/>>). However, electronic maps have limitations in showing both large areas like complete counties and the locations of individual pollution sources at street-level. The CEIS and others are working on delivering GIS-type functionality to electronic maps on the Web so users can zoom-in and pan around; however, that type of GIS functionality and others is already available on the LandView III CD-ROM which is available to the public without Internet access.

A Web version of LandView III developed in support of universal access for demonstration at the Federal Webmaster's Workshop <<http://cdserver.er.usgs.gov/fedweb97.htm>> delivers electronic maps for selected communities showing the locations of facilities in EPA's databases <<http://cdserver.er.usgs.gov/ceisprof.htm>>. It will be noted that most maps show a high degree of overplotting (clustering of source locations) that makes it impossible to distinguish the individual sources; however, this overplotting is useful in showing the degree of geographic coincidence in pollution source locations. A list of the individual facilities in the LandView III-EPA databases is also provided. The steps followed in creating these maps are provided so community citizens can acquire the LandView III CD-ROM and repeat these steps and zoom-in and pan around to see the locations of individual pollution sources in relationship to their own neighborhoods. In addition, community citizens and others can add their own spatially reference data to LandView III and create their own electronic and paper maps!

At the recent EPA-sponsored Toxics Release Inventory and Right-To-Know Conference, September 8-10, 1997, in Washington, DC

(see <<http://www.rtk.net/triconf>> , a Community Outreach Training session was conducted by the John Snow Institute that provided techniques for improving outreach efforts and training in how to better access data and information to develop Community Profiles of Environmental and Health Data <<http://cdserver.er.usgs.gov/jsiprofl.htm>> . The training materials included a Guide based on the Local Environmental Information Centers (LEIC) program, conducted in Massachusetts by the John Snow Institute for Environmental Health Studies and sponsored by EPA Region 1 and the EPA Office of Pollution Prevention and Toxics. The Community Profile presented at this recent conference has been used to begin the development of community profiles for the 84 largest cities selected in the EMPACT program. The Environmental Monitoring for Public Access and Community Tracking (EMPACT) project, an EPA initiative, is designed to improve the quantity and quality of environmental information that is made available to the public in an understandable manner.

The Digital Library of the State of the Environment <<http://cdserver.er.usgs.gov/ceisoe.htm>> is compiling the existing state of the environment reports and indexing them (see example in Appendix B using a form of the Dublin Core) and packaging the community maps, profiles, and key documents so that community libraries can use them on CD-ROM and the Web to help citizens. The Environmentalist's Guide to the Public Library produced by Libraries for the Future says librarians serve as "information advocates—listening to people's needs, guiding them to useful data, and helping them to synthesize and centralize information." (Updated 1997 edition, Libraries for the Future, New York, NY <<http://www.lff.org>>)

HUD also offers a new community mapping and planning tool (Community 2020) in partnership with whose commercial

Maptitude product has been tailored for HUD users to be the lowest priced, full-featured desktop mapping (GIS) software on the market. Caliper Corporation has added hundreds of macros that make map creation easy for novice users of GIS software. The Community 2020 Data Library includes:

- U.S. Streets and Highways,
- Cities, Towns, States and Counties,
- Census Tracts and Block Groups,
- Congressional Districts,
- 5-Digit ZIP Codes,
- MSAs, ADIs, and DMAs,
- Low- and Moderate-Income Areas,
- Empowerment Zones and Enterprise Communities,
- Detailed Census Demographic Data,
- HUD Program Data for Urban and Rural Areas, and
- Public Housing Data.

Version 2.0 of Community 2020 will be released soon with additional databases and functionality in response to user requests. A training manual and Discussion Forum are available on the Web (see <<http://www.hud.gov/cpd/2020soft.html>> and <<http://www.hud.gov/cpd/cpdboards/c2020dis/cpdboard.html>>).

The Urban Institute has created for HUD a catalogue on state and local data sources and 17 community mapping applications in 5 cities called Mapping Your Community (HUD-1092-CPD, October 1997). This excellent publication contains a description of 42 nation-wide or urban-area databases in 6 main categories, namely,

- economy (6),
- education (3),
- health (5),
- social services (5),
- safety and security (6),
- community resources and participation (6),
- housing (5), and

- environment (6).

Demonstration Scripts

The LandView III script from the Digital Library's Guide to National and Community Profiles of the State of the Environment is provided in Appendix C. This script and results illustrate the LandView III product design goals:

1. easy-to-learn intuitive interface designed for first-time GIS users,
2. simple enough that training classes and conventional software support systems are not required, and
3. does not compete with commercial packages and software code is in the public domain and can be modified and distributed by anyone.

Some Next Steps

An Interagency LandView Team is developing a strategic plan to pursue the principal goals of:

1. adding more national databases,
2. creating metadata and a clearinghouse,
3. promoting interoperability through the Open GIS Consortium, and
4. developing additional applications for educational purposes. An initial framework for LandView Distributed Geographic Information is provided at <<http://cdserver.er.usgs.gov/lvonline.htm>>.

Some of the LandView III maintenance and development issues are:

1. including the MrSID Extension for basemap images,

2. making the Web-Connection to EPA's EnviroFacts and other spatial database Web sites,
3. providing for import of additional formats like shape files,
4. ongoing bug fixes and suggested improvements, and
5. possible inclusion of LandView III on the Microsoft-USGS TerraServer <<http://www.research.microsoft.com/terraserver/>>.

Finally, some of the LandView III products being worked on or discussed are:

- a DVD for schools,
- a GIS Starter Kit, and
- LandView III on the EPA Toxic Release Inventory 1998 CD-ROM.

The Digital Library of the State of the Environment Digital Library is evolving to a warehouse of repurposed, value-added, interlinked documents on the Web and as a series of Web-connected CD-ROMs. The Digital Library of the State of the Environment is also enlarging its multimedia contents with video clips, large images in compressed form, statistical analyses, and other elements that provide a decision support resource for decision makers and the public.

References

Marshall, Patrick, 1998: Public-Domain GIS Programs, civic.com, <<http://www.civic.com/pubs/1998/january/civ-jan-review.htm>>

LandView III Product Profile <<http://www.census.gov/apsd/pp98/pp.html>>

GIS Maps Out Approach for 'Democratization' of Government Data,

L. Scott Tillett, Federal Computer Week,
September 22, 1997

Jack Dangermond, Vision for the Future:
National GIS Architecture, 1998 ESRI Federal
User Meeting, April 30, 1998

1998 Recommended Specifications for Public
Access Work Stations in Federal Depository
Libraries, April 20, 1998

LandView III Guided Tour Tutorial,
September 1997 (LandView III 11 CD-ROM
set, December 1997)

Every Community's Right to Know: A Guide to
Community Outreach and Education on
Environment & Health Information, prepared
by JSI Research and Training Institute, Inc.,
Center for Environmental Health Studies, 44
Farnsworth St., Boston, MA 02210, 617-482-
9485 <<http://www.jsi.com>> and U.S.
Environmental Protection Agency, Office of
Pollution Prevention and Toxics, Information
Management Division, 401 M St., SW,
Washington, DC 20460
<<http://www.epa.gov>>

EPA Center for Environmental Information
and Statistics, EPA 235-F-98-001, June 1998,
Office of Policy (2161), Washington, DC
20460

Community 2020 HUD Community Planning
Software, Version 2.0 Fact Sheet, May 1998

Mapping Your Community, HUD-1092-CPD,
October 1997, available free from the
Community Connections Hotline at (800)
998-9999 and ask for the Community 2020
Help Desk.

Appendix A - LandView III Readme File

Introduction to the LandView (tm) III CD- ROM, Version 1.0, October, 1997

LandView III is a desktop mapping system
that includes database extracts from the
Environmental Protection Agency, the Bureau
of Census, the U.S. Geological Survey, the
Nuclear Regulatory Commission, the
Department of Transportation, and the
Federal Emergency Management Agency.
These databases are presented in a
geographic context on maps that show
jurisdictional boundaries, detailed networks
of roads, rivers, and railroads, census block
group and tract polygons, schools, hospitals,
churches, cemeteries, airports, dams, and
other landmark features.

Minimum and Recommended Configurations

The minimum configuration required to run
this CD-ROM:

- PC with a 486-class processor, or
- Macintosh with a 68020 processor,
- 8MB of RAM,
- 10MB of free hard disk space,
- VGA color display,
- 2X CD-ROM drive,
- Windows 3.1 (for PC),
- System 7.0 (for 68K Mac),
- System 7.1.2 (for Power Mac)

To maximize performance the recommended
configuration is:

- PC with 586 or Pentium-class processor,
or
- Macintosh with PowerPC processor,
- 16 MB RAM,
- SVGA color display,
- 4X CD-ROM drive,
- Windows 95 or Windows NT (for PC),
- System 7.1.2 or higher (for Macintosh).

Installation Instructions

Place this disc in your CD-ROM drive.

For Windows users:

1. Run the program
"D:\INSTALL\WINDOWS\SETUP.EXE"
(where "D" is your CD-ROM drive letter).
Indicate where to install LandView, click
OK.
2. Install the MARPLOT fonts by choosing
Fonts from the Windows Control Panel,
then "Install New Font" from the File
menu (in Windows 3.1, press the Add
button). Then choose the directory where
LandView has been installed (usually
C:\LV3). The fonts MARPLOT.P and
MARPLOT.D should appear in the font list
window. Press the "Select All" button,
and then the OK button.
3. LandView III is designed to run in
Windows 95 and Windows NT. You can,
however, run it in Windows 3.1 if you
install the 32-bit processor, called
WIN32S. To install WIN32S, go to the
\\INSTALL\WIN32S\DISK1 directory on
the LandView CD, and run SETUP.EXE.
(Note: do not run _MSSETUP.EXE or
_MSTEST.EXE). If you are running
Windows from a network file server
rather than from your local hard drive,
you may need the assistance of your
network administrator to install WIN32S.

For Macintosh users:

1. Double-click the LV_PPC.sea icon in the
INSTALL:POWERPC folder, or the
LV_68K.sea icon in the
INSTALL:MAC_68K folder, click
Continue, indicate where to install
LandView, and click Save.
2. Drag the following files into your System
Folder:

FOXTOOLS.MLB (must go in Extensions
subfolder)

MARPFONT (must go in Fonts subfolder)

3. Restart your machine.

Documentation

LandView III comes with several
documentation and tutorial files:

- LandView III Guided Tour (in PDF
format),
- LandView III Help (in both PDF and
Windows Help file formats),
- MARPLOT user manual and technical
documentation (in PDF format), and
- MARPLOT Help (in Windows Help file
format).

The Adobe Acrobat Reader for viewing PDF
files is included on this CD.

LandView III version 1.0 Notes

The maps and data in LandView III, as in its
predecessor LandView II, are divided into 10
geographic areas, each on its own CD-ROM,
plus an additional CD covering the entire
United States (see below for a list of states on
each CD).

The detailed networks of roads, rivers, and
railroads come from the Bureau of Census
TIGER/Line 1995 files, and are present on
CDs #1-10, but are absent from the national
CD (#11). (Since the LandView Guided Tour
refers to the map of Prince William County,
VA, that map, as well as the maps for the
District of Columbia and the State of
Delaware, is included on the national CD.)

The national CD has been augmented by the
addition of major roads from the Department

of Transportation (refer to the Help system under "U.S. Highways" for more details), and major streams and rivers from the U.S. Geological Survey 1:2 Million scale Digital Line Graph (DLG) files.

The following layers were not part of LandView II, but are included in LandView III:

- schools
- hospitals
- religious institutions
- cemeteries
- airports (including runways)
- dams
- nuclear sites
- Canadian Province boundaries
- Canadian major roads and railroads
- Mexican State boundaries
- Mexican major roads and railroads
- EPA Watershed Assessment data
- EPA Ozone Non-attainment areas
- EPA Brownfields Pilot areas

The Population Estimation feature now offers two methods, one that uses Block Group Centroids (like LandView II), and another that uses Block Group Polygons, and prorates the population statistics based on the land area within the radius.

Macintosh users may experience problems doing population estimation for large radii (100 miles or greater). This is a memory management issue that will be addressed in a future version. No such problems have been detected in the Windows version.

State list for the 10 LandView CDs

- CD #1: Connecticut, District of Columbia, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont
- CD #2: Maryland, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia
- CD #3: Alabama, Florida, Georgia, and Mississippi
- CD #4: Illinois, Indiana, Kentucky, Michigan, and Ohio
- CD #5: Iowa, Minnesota, North Dakota, South Dakota, and Wisconsin
- CD #6: Arkansas, Kansas, Missouri, and Oklahoma
- CD #7: Louisiana, and Texas
- CD #8: Arizona, Colorado, Nebraska, New Mexico, and Utah
- CD #9: Idaho, Montana, Oregon, Washington, and Wyoming
- CD #10: Alaska, American Samoa, California, Guam, Hawaii, Northern Mariana Islands, Nevada, Puerto Rico, and U.S. Virgin Islands
- CD #11: Entire United States and territories, but with a less-detailed network of roads and rivers.

Appendix B - LandView III Script from the Guide to National and Community Profiles of the State of the Environment

The steps in retrieving the selected environmental indicators and creating the maps from the LandView III CD-ROM are as follows:

1. Start the LandView III CD-ROM.
2. From the LandView Menu, do File-Census Data.
3. Select a State: Massachusetts, and a County: Suffolk, and Click Show on Map.
4. From the MARPLOT Menu, do List, Layer List and make the list Hide everything but the following:
 - a. Counties (Show) – Color: Black and Line Style: Solid Heavy
 - b. States (Show) – Color: Black and Line Style: Lightest
 - c. Shoreline (Show) – Color: Light Blue and Line Style: Lightest
 - d. Water (Show) – Color: Blue and Pattern: Fill
 - e. AIR_FACL (Show) – Color: Black and Symbol: Power Plant
 - f. AIR_QUAL (Show) – Color: Yellow and Symbol: AQ
 - g. Brownfields Pilots (Range) – Color: Brown and Pattern: Cross-hatch
 - h. HAZ_WASTE_FACL (Show) – Color: Purple and Symbol: Barrel
 - i. SUPERFUND_NPL (Show) – Color: Red and Symbol: Letter S
 - j. TRI (Show) – Color: Dark Green and Symbol: Chemistry Beaker
 - k. WASTEWATER (Show) – Color: Olive and Symbol: Water Pipe Discharge
 - l. Hospitals (Range) – Color: Black and Symbol: Holy Cross
 - m. Schools (Range) – Color: Black and Symbol: Building with Flag
5. From the MARPLOT Menu, do View, Legend, Show and View, Scale Bar, Show and position the Legend and Scale to minimize covering the plotted information as much as possible. (Note: Use the zoom-in, zoom-out, and grabber tools to get the best looking map.)
6. From the MARPLOT menu, do File, Save as Picture, and select a file name and either the bitmap or metafile format options. (Note: The metafile file format gives a smaller file size for Web sites.)
7. From the MARPLOT Menu, do List, Search, Search for Objects: select “that are inside or touched by” and select “the currently selected objects” (leave as is since the county selected is still selected); Maps to search: “maps in view (leave as is); Layers to Search: select “multiple layers” and click AIR_FACL, AIR_QUAL, Brownfields Pilots, HAZ_WASTE_FACIL, SUPERFUND_NPL, TRI, and WASTEWATER so that a total of 7 layers are selected. Click on Search.
8. In the Search Collection, click on Show All on Map.
9. From the MARPLOT Menu, do File Export, Export (leave the other settings as they are) and select a file name and the text file format option.

Appendix C - Example from the Master Index of the Digital Library of the State of the Environment

State of the Environment Australia 1996

<http://www.environment.gov.au/portfolio/dest/soe/soe96/soe96.html>

Sound Byte: An independent report presented to the Commonwealth Minister for the Environment by the State of the Environment Advisory Council provides a summary on the Web and how to order their comprehensive, fully illustrated book and CD-ROM.

Summary

This is the first ever independent and comprehensive State of the Environment Report for Australia. It links land, water, air, plants and animals, human settlements and how we value them. An independent advisory council and seven expert groups prepared the report. It draws on the knowledge and skills of more than 200 eminent scientists and other experts. The report shows that Australia has a beautiful, diverse and often unique environment which is a priceless heritage and should be a source of pride to all Australians. Some aspects of the Australian environment are in relatively good condition by international standards. In some areas our approach to environmental management has won international recognition. In many other areas it is not possible to decide whether our environmental management is adequate. We urgently need better information and understanding, which will require data collection and research. The report also shows that Australia has some very serious environmental problems. If we are to achieve our goal of ecological sustainability, these problems need to be dealt with immediately. This will be no small task. The problems are the cumulative consequences of population growth and distribution, lifestyles, technologies and demands on natural

resources over the last 200 years and more. No single Government or sector is to blame for these problems. We are all responsible. Changes are needed in Government policies and programs, corporate practices and personal behavior. Australians are among the most environmentally aware people in the world. All sections of the community now recognise the need to do more to tackle environmental issues. Most of the problems identified in the report do have solutions. The report details many positive and successful initiatives. Our actions have been most effective where they have taken a comprehensive and systematic approach, integrating different aspects of the overall problem. By contrast, failures tend to be piecemeal efforts that treat symptoms rather than underlying causes. Australia has an international responsibility to protect its rich biological diversity and its unique environmental features such as the Great Barrier Reef and other World Heritage Areas. We also have a national responsibility towards future generations of Australians. Australia has a better opportunity than perhaps any other nation to protect its environment and use its natural and heritage resources sustainably. We need to do much more if we are not to lose this opportunity. Progress towards ecological sustainability requires recognition that human society is part of the ecological system and integration of ecological thinking into all social and economic planning.

Table of Contents

- Executive Summary
 - Atmosphere
 - Background summary
- Key threats to sustainability
 - Biodiversity
 - Background summary
 - Key threats to sustainability
- Estuaries and the Sea
 - Background summary
 - Key threats to sustainability
- Human Settlements
 - Background summary
 - Key threats to sustainability
- Inland Waters
 - Background summary
 - Key threats to sustainability
- Land Resources
 - Background summary
 - Key threats to sustainability
- Natural and Cultural Heritage
 - Background summary
 - Key threats to sustainability
- Keywords

Metatag

Metatag: META NAME = DC.title; CONTENT = Australian State of the Environment Report 1996 - Executive Summary

META NAME = EA.search CONTENT = YES

META NAME = DC.creator.organisation CONTENT

META NAME = DC.creator.name CONTENT

META NAME = DC.subject SCHEME = Draft Environment Australia Thesaurus
http://www.environment.gov.au/portfolio/library/ea_thesaurus.html CONTENT = State of the Environment

META NAME = DC.description CONTENT = An independent report presented to the Commonwealth Minister for the Environment by the State of the Environment Advisory Council

META NAME = DC.publisher CONTENT = Environment Australia, Environment Priorities & Coordination Group

META NAME = DC.contributor.custodian.originator CONTENT = Environment Australia, Environment Priorities & Coordination Group

META NAME = DC.contributor.custodian.contact CONTENT =

META NAME = DC.contributor.custodian.email CONTENT =

META NAME = DC.contributor.custodian.position CONTENT =

META NAME = DC.date SCHEME = ISO 8601 CONTENT = 1997-02-04

META NAME = DC.type CONTENT =

META NAME = DC.format CONTENT = text/html

META NAME = DC.identifier SCHEME = URL
 CONTENT = <http://atlas.erin.gov.au/portfolio/dest/soe/soe96/soe96.html>

META NAME = DC.source.author1 CONTENT =

META NAME = DC.source.author2 CONTENT =

META NAME = DC.source.date CONTENT =

META NAME = DC.source.title CONTENT =

META NAME = DC.source.series CONTENT =

META NAME = DC.source.publisher CONTENT =

META NAME = DC.source.ISBN CONTENT =

META NAME = DC.source.URL CONTENT =

<META NAME = DC.language SCHEME = Z39.53 CONTENT = ENG

<META NAME = DC.relation.isParentOf CONTENT =

<META NAME = DC.coverage.placeName CONTENT = Australia

<META NAME = DC.coverage.x.min SCHEME = DD CONTENT = 112

<META NAME = DC.coverage.x.max SCHEME = DD CONTENT = 154

<META NAME = DC.coverage.y.min SCHEME = DD CONTENT = >

<META NAME = DC.coverage.y.max SCHEME = DD CONTENT = -9

<META NAME = DC.coverage.t.min SCHEME = ISO 8601 CONTENT =

<META NAME = DC.coverage.t.max SCHEME = ISO 8601 CONTENT =

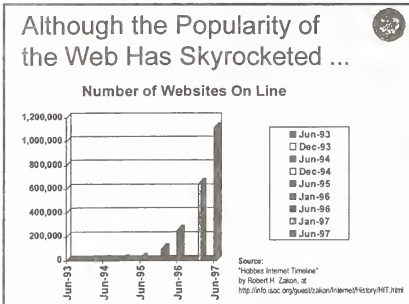
<META NAME = DC.rights SCHEME = URL
 CONTENT = <http://www.environment.gov.au/general/copyright.html>

Geographic Domain: Australia

Keyword/ Theme: sustainable development, biodiversity, CD-ROM

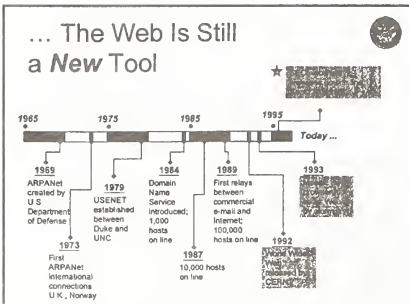
The SEC Website as a Reference Source: The EDGAR Database and Beyond

Ruth S. Pitt
 U.S. Securities and Exchange Commission
 Washington, DC



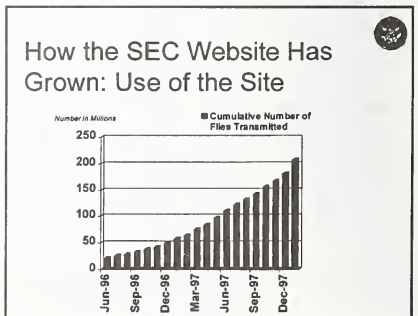
Investor Information
 Links to Related Sites

- Has become a means of doing SEC business, as well as a public information resource



The SEC's Web site: <www.sec.gov>

- Grew out of an experimental EDGAR Web site offered by a university
- SEC's initial offering added:
 News
 Rulemaking
 Enforcement Actions
 SEC Information



How Is the Public Using the SEC Web site?

- Investment research
 - Company and industry information
 - Investment basics
 - How to avoid scams, etc.
- Legal research
 - Securities-related
 - Other matters, using company information
- Making complaints about fraud (Complaint Center)
- Schoolwork (from middle school-level on up)
- Other uses as well (job search, "raw material" for value-added company information services, etc.)

How Is the SEC Using the SEC Web site?

- Publishing
- Educating the public
- Soliciting public input on proposed rules and other matters
- Communicating with its registrants (companies, brokers, etc.)
- Researching, in much the same manner as members of the public

What's Being Used on the SEC Web site

- 80 to 85% of the site's output is EDGAR data (16-17 GB out of a typical 20-GB weekday)
- The remainder is a mix of the other offerings:

Investor education materials are among the most popular ...

But use of news, rulemaking, and SEC legal actions is also significant

Some Popular Pages on the SEC Web site*

- SEC News Digest index
- Investor Education home page
- Staff Legal Bulletin No. 5 (re: Year 2000 disclosure)
- Proposed Rules index
- Employment Opportunities
- Press Releases index
- Litigation Releases index
- Concept Releases index

**Does not include EDGAR searches or documentation*

Using the SEC Web site for Research:

A Live Demonstration, including

- EDGAR
- Other materials on the site

Future Plans for the SEC Web site

- Improved EDGAR and site searches
- Ability to download SEC paper forms in PDF (Acrobat®) format
- Expanded SRO Rulemaking section
- More SEC program (Division, Office) information
- Revised Investor Education offering

WAIS Search Tips

- **Use connectors!**
To form a two-word phrase (ADJ = "adjacent to"):
Boston ADJ Chicken

To limit the search:
Downes AND Accounting

- Avoid searching on overly common words
For example, don't use "Inc." or
"Corp." to search for a company

For EDGAR Archives

- Use the CIK (Central Index Key) if you know it:
For example, 0000065100 = Merrill Lynch & Co. Inc.
- Limit your search by date or form type - or both:
0000065100 AND 1997* AND 8-K
(gives 8-K change reports for Merrill Lynch during 1997; date format is YYYYMMDD; note use of asterisk for wildcard)

Questions & Answers

- On the SEC Web site and the current EDGAR system

Assessment of Electronic Government Information Products: Study Status

Woody Horton

U.S. National Commission on Libraries and Information Science
Washington, DC

Stage I

- Objective: Define Scope & Boundaries for Research Effort (Stage II)
- Completed Summer 1997
- NRC/CSTB Report Available on NCLIS home page: <<http://www.nclis.gov>>

Objectives: Stage II

- Identify Medium & Format Standards Most Appropriate for Permanent Public Access
- Assess Cost-Effectiveness of Alternative Mediums and Formats
- Identify Public & Private Standards for Use Throughout Information Life Cycle

Chronology: 1997

October - NCLIS & GPO Finalize Task Order Statement of Work (SOW)

December - JCP Approves SOW; NCLIS Forwards SOW to NCES

Chronology: 1998

January - Funds Transferred from GPO to NCLIS; Funds Transferred from NCLIS to NCES; NCLIS-NCES MOU Signed

February 12 - NCES Finance & Budget Approval Obtained

February 20 - NCES General Counsel Approval Obtained

February 26 - NCES Contract Office Received Task Order SOW & Began Negotiation with Contractor (Westat)

April 6 - Task & Budget Proposal Received from Contractor (Westat)

May - Expected Contract Award; Contractor Begins Work on Task Order

Project Milestones

1. Pre-Select Products (In Process)
2. Develop Data Collection Plan
3. Refine Criteria for Product Selection
4. Identify Key Agency Contact Officials & Conduct Meetings
5. Identify Private/Public Information Experts as Advisors
6. Conduct Site Visits with Agency Representatives
7. Create Baseline Inventory Products Database

8. Collect Data, Conduct Follow-Up, Enter Data into Database, etc.
9. Present Preliminary Findings
10. Prepare Final Report & Conduct Oral Briefings

Key Issues

- Product Sample Size (Approx. 500)
- Product Quality & Validity
- Appropriate Mix of Agency Participants
- Limited Time for Assessment
- Assessment of Electronic Government Information Products
- Short Term Agency Planning Horizon
- Varying Perspectives: Agencies, GPO, FDLP, Users
- Focus on Facts vs. Policy
- Follow-On & Next Steps (Stage III - Conclusions & Policy Recommendations)

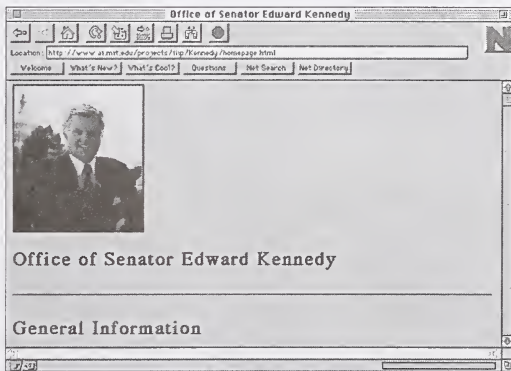
The Hill on the Net

Chris Casey
United States Senate
Washington, DC



January 1881

The First Telephone
Installed in the United States Senate



May 1994

Senator Edward M. Kennedy
First Member of Congress on World Wide Web

www.senate.gov/~kennedy/



Thomas A. Daschle Democratic Leader

tom_daschle@daschle.senate.gov

"I admire the work George Mitchell has done as our Majority Leader over the past five years. His steady and strong leadership has allowed us to bridge partisan politics and build consensus in order to move legislation forward. That is the style of leadership I hope to continue as the Democratic Leader."

Speech Texts
Press Releases
Information about South Dakota
Democratic Policy Committee
CapWeb, A Service to the U.S. Congress

Thomas A. Daschle
United States Senate
Washington, DC 20510
(202) 224-2321

810 South Minnesota Avenue
P.O. Box 1274
Sioux Falls, SD 57101
(605) 334-4632

January 1995

Senator Tom Daschle Home Page version 1.0

SENATOR
Tom Daschle

Hello and welcome to my home page on the World Wide Web. Here I will provide you with information about my home state of South Dakota and my work in the United States Senate. This site is also a starting point to access South Dakota, Federal government, and other related information on the Internet.

This week, the Senate will resume debate on an important education bill. During the debate I will watch my education agenda of making much-needed improvements to school facilities, addressing teacher shortages, reducing class size and making new technology more available in South Dakota schools and across the country.

Please feel free to contact me with your concerns about education or any other issue.

I hope you'll use this recent live web access to meet with South Dakotans around the state to discuss issues that really matter to them. In agriculture, health care, and economic development.

Tom Daschle

March 1998

Senator Tom Daschle Home Page version 3.0

Location: <http://www.senate.gov/press/feedback.html>

SENATOR BREAU'S FEEDBACK FORM

Please use the following form to contact me with your comments and concerns. Louisiana constituents should please include your full name and address, and e-mail address to which I can send a reply. If you do not have a format capable web browser, you can contact me directly via e-mail at SENATOR@BREAU.SENATE.GOV.

Please enter your name and address. Fields marked with an * are required.

Prefix: _____ (Ex: Mr. and Mrs.)

First name, Middle initial: _____

Last name, Suffix: _____

Street Address: _____

Street Address: _____

City: _____

State code: _____

Zip Code: _____

Phone: _____ (Home) _____ (Work)

E-mail: _____

What is the general topic of your message? (Please click on appropriate answer.)

Other:

Please write your message. (Please do not use HTML characters)

Location: <http://www.senate.gov/activities/rollcall.htm>

Legislative Activities

Senate Roll Call Votes

- [Senate Roll Call Votes Taken Today](#)
- [Senate Roll Call Votes Taken This Week](#)
- [Senate Roll Call Vote Tables - Current and Prior Congresses](#)

Senate Roll Call Votes

"Roll call" votes are votes in which each Senator votes "yes" or "no" as his or her name is called by the Clerk, so that the names of Senators voting on each side of the question are recorded. Under the Constitution, a roll call vote must be held if demanded by one-fifth of a quorum of Senators present, a minimum of 11. These reports provide the results of roll call votes taken in the Senate during the current Congress, including votes taken today, as well as roll call votes taken in several prior Congresses. Roll call vote results are compiled through the Senate Legislative Information System by the Senate Roll Call Clerk under the direction of the Secretary of the Senate.

Senate Roll Call Votes Taken Today. This report lists the recorded votes for the current day, indicating date of the vote (today), bill number if applicable, result of the vote, and the description of the question on which the vote was taken. Results of roll call votes are generally posted approximately one hour after they are announced by the Presiding Officer.

Senate Roll Call Votes Taken This Week. This report lists the recorded votes taken yesterday and on other days during the past week, indicating date of the vote, bill number if applicable, result of the vote, and the description of the question on which the vote was taken.

Netscape: Senator Jay Rockefeller -- Transcript of Senator Rockefeller's online chat with

Back Forward Reload Home Search Guide Images Print Security Stop

Location: <http://www.senate.gov/~rockefeller/html/press/releases/1998/fgc407930.html>

Online Chat with Geography Students At Nitro High School

April 9, 1998

Senator: Hello, I am ready to chat. How come you all had to leave the school? So let's go with any questions that you may have. I'll do my best, and I do my own typing -- which is pretty C++.

NHS: Hello Senator. My name is Channon, and with me is Kim. We are asking questions from your web site.

Senator: I am happy to answer questions on any subject. I understand that you have an interest in geography.

NHS: Yes, we are a geography class. We didn't realize that so many companies are investing in West Virginia until we visited your web site. What advantages will the Toyota factory bring to West Virginia?

Senator: The main advantage of Toyota is that it will probably end up creating about 3000 jobs in West Virginia.

Senator: And I say 3,000 because of something called the "ripple effect" -- which means that 600 direct jobs at Toyota come out to three or four times that amount in the economy. What is interesting is that we are now a global economy, and West Virginia is right in the middle of it.

NHS: As a result of the coming Toyota plant, are there any other Toyota companies planning on moving to the area? We understand that they tend to cluster.

Senator: They DO tend to cluster, and I have a whole delegation of Toyota auto parts suppliers from Japan visiting this fall. We should "get" a couple of them. (In spite of the horrible puns of me that you are looking at, I'm really a pretty good fellow.)


NHS: Can you see us yet?

Senator: No, there is some glitch, and I can't.

NHS: Are you ready for the next question?

Senator: More than ready. I want you to load me down with questions.


NHS: Do you think that the Toyota plant is going to cause a population boom in Putnam County that may lead to problems in that area? Has there been discussion about population growth?



Netscape: Lewis and Clark in North Dakota - Introduction

Back Forward Reload Home Search Guide Images Print Security Stop

Location: http://www.senate.gov/~dorgan/lewis_and_clark/



Lewis & Clark in North Dakota

An online exhibition presented by
Senator Byron Dorgan of North Dakota
and the Library of Congress

Enter →


[Return to the Dorgan Web Site](#)

Netscape: Congressional Research Service

Back Forward Reload Home Search Dunde Images Print Security Stop

Location: <http://www.loc.gov/crs/>

enter will re-open in Dirksen B-34 on May 4 The Russell B- Details




CRS
The Library of Congress

Congressional Research Service

About CRS
What's New
Feedback

CRS This Week

- Full Text of CRS Online Products
- CRS Services
- Search CRS and LOC Files



Legislation

- Congressional Staff Reference Desk
- Internet Resources By Topic
- Library of Congress

<http://www.loc.gov/crs/> [Text Version](#)

Disclaimer: CRS makes every effort to provide a fair and responsible selection of material on its Home Page from a diverse range of sources. From the CRS Home Page you can access other, independent Web sites. CRS is not responsible for either the content or nature of these sites.

Warning: The CRS Home Page is for use only by Members of Congress and their staffs. Unauthorized use, including bulk or systematic use of this system or its supporting hardware or software may violate federal and/or local statutes, and may subject the violator to criminal and/or civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violations of law may be provided to law enforcement officials.

Out of the Basement

The Internet and Document Public Services

Grace Ann York
University of Michigan
Ann Arbor, MI

Introduction

One of the prized possessions in my office is an autographed copy of Chris Casey's Hill on the Net. Although I may be tracking Congressional e-mail, Chris has actually made it happen. For that we all owe him a debt of gratitude.

With a name like York, I often come in last. However, Sheila scheduled me last so I could spread the good news: Government documents and its librarians have come out of the basement.

The basement refers to two things. First, many Government documents departments have been physically located outside the mainstream of library public services. Second, its librarians have been seen as eccentrics who enjoy making endless SuDocs class corrections. That perception began changing in 1992, when we were among the first to use CD-ROMs in order to obtain Census data. Now we are considered leaders in the information age.

Today I would like to take you through the history, challenges, and decisions behind the University of Michigan's Internet site, and the dramatic impact the Web has had on our public services. Whether or not you maintain your own Web site, we're all facing the same issues. My goal is that you leave here excited and encouraged about the personal role you play both to the public and to our profession.

History

When the Documents Center's Web site celebrated its third birthday a few weeks ago, we counted at least 200 HTML pages, 200 image files, 50 frames documents, and 1000 text files. Although some of this development happened at night, it certainly did not happen overnight. The history dates back to 1986. That should encourage those of you who received Internet connections in January and are still feeling overwhelmed. Give yourself time.

Our story begins with the Commerce Department, which inaugurated its Economic Bulletin Board (EBB) in 1985. John Price-Wilkin, a Documents staff member at the time, decided to download a few selected files and place them into our departmental e-mail account for ready reference. Cass Hartnett continued the project. My only involvement for five years was substituting when either had the temerity to take a vacation. (As an aside, I inherited supervision of the entire project in 1992 with an, "Oh, Grace, you won't have ANY problems." But back to the story.)

In June 1991 I begged John for instructions to transfer Census STF 1A summaries for Michigan into the same e-mail account we were using for the EBB. Ultimately the EBB and revised version of the Census data formed the basis of the library's new gopher in spring 1992.

My first venture with Congressional directories came in Spring 1993. Although my staff and I typed the lists, we depended on others for uploading to the gopher. I naively thought Congressional fax numbers and subcommittee assignments would remain stable for two years and saw no need for learning how to update them. Was I ever wrong!

The defining moment for me personally was a UNIX workshop in February 1994, followed by permission to maintain the Government section of our gopher. A whole new world opened because I could do it myself. The GODORT Handout Exchange was mounted that summer, thanks to Larry Romans, and in September I experimented with the first Congressional e-mail directory.

Using a combination of our own Congressional directories, data from Project Vote Smart, and CNN's television tickertape, we posted a directory of the 104th Congress at 2 p.m. the day after the election, way before any of the commercial sites. Okay, so there were a few mistakes, both with people and parties, but not many.

Everyone knew about the EBB, but the New York Times blew our cover on Congressional e-mail by listing the URL on January 6, 1995. That event really began a new era of going public outside academia. Then in March an EPA official sent a casual e-mail message, asking if I had ever listed political opponents in the 104th Congress directory. I had done that prior to the 1994 election but removed the data in mid-January. Apparently someone from America OnLine downloaded an early edition, and the EPA official kept a copy for future reference. He later decided to use the fax numbers to invite members of a subcommittee to a meeting on wetlands policy and interpreted the v. as staffers, so he placed their names on the same fax. An article in the Washington Post claimed the EPA was illegally keeping a "hit list" and threatened jail to the perpetrator, i.e. me. Our Web site was created

two weeks after that incident since it seemed like a safer legal medium.

Web Site Overview

Turning to the Web site, there are nine main sections: Federal, foreign, international, Michigan, state and local Governments other than Michigan, Documents in the News, documents librarianship, political science and statistics. The advertised entrance point is entitled Government Resources on the Web (handout, p. 1). The quick jumps at the top go directly to those nine main sections, but the list of quick jumps has grown as we've added class assignment materials, site-licensed products, ad infinitum. There really is an explanation of content if you ever get past the quick jumps.

The "directory" is a four-page alphabetic subject list of the entire Web site (handout, p. 2). The search engine was installed prior to the demise of the ULIBRARY Gopher so that the GODORT Handout Exchange and GPO Administrative Notes could be indexed when they were transferred to the Web. The move to a faster server two months ago has reopened the possibility of a stronger indexing program.

Web Site Mission

The mission of the Web site has always been internal: to assist the Documents Center staff in answering the reference questions it receives and to serve as a platform for bibliographic instruction.

Reference Tool

The reference mission is reflected in content and in many little features (handout, p. 3)

Government documents are partially integrated into our library collections with the Documents Center serving as a central referral point. We have an extended Web page of Federal bibliographies because it is departmental policy to verify titles and

locations before referring anyone to a North Campus bus. Ann Arbor is home of the Inter-University Consortium for Political and Social Research; hence, 22 statistics pages. Congress is handled in great detail because so many of our professional schools conduct lobbying courses. On the other hand, we scarcely cover agriculture because we depend on Michigan State.

The bullet annotations are fairly unusual. The purpose is to communicate information in a compact fashion to a reference staff without much time. At least that is the official reason. Unofficially, you can see the structured gopher influence. Had I looked at Larry Schankman's Web site before developing my own, I would have followed his pattern.

Reference pages integrate Web links with other formats to assist student staff working alone on evenings and weekends. A good example would be the call numbers for General Accounting Office paper and microfiche reports in addition to the GPO Access link for the Web version.

The Documents Center interprets its reference service broadly to include "whatever it takes." That's why you find so many references to non-Governmental sources, like Money Magazine's rating of cities.

The single most important reference feature is interactive Web development based on real questions. The cost-of-living Web page was based on numerous e-mail questions. We made a link to the Beijing Women's Conference while the user was still on the phone. When a fax machine failed, we temporarily uploaded the 1997 poverty guidelines from the Federal Register to our Web site so a hospital employee could access them from her desktop.

And sometimes we just have fun. When everyone complained of stuffy heads last year, I added a link to the pollen count, justified as a health statistic. Apparently John Downey is

allergic to mold, and I am allergic to poplar. New mortgage calculators suddenly appeared last January, coincidental with my refinance application. Last November I faithfully updated football scores on the JavaScript tickertape so the Saturday desk staff would know the Rose Bowl situation.

Bibliographic Instruction

A second mission of the Web site is bibliographic instruction. There are two types of pages, generic and class-specific.

Generic pages are meant for multiple classes. Examples include Legislative Histories, International Simulations, and United States Foreign Policy. There are approximately ten class-specific pages, and often these are mix-and-match offshoots of a generic page but contain specialized information for the course. Among them: Health Care Politics, Higher Education Politics, and Middle East Conflicts.

The class assignment pages are arranged in the order of my lecture (handout, p. 5). They usually start with choosing a topic, proceed to subject specific details, and end with citation guides. Sources include a combination of Web, online, paper, CD, and microform, although the emphasis is certainly on the Web. We provide public access alternatives to site-licensed products when we know our Web page is being used outside the University. Everything for a particular course is maintained on a single page so it can be printed as a handout, but I have been adding navigational guides such as frames indexes and quick-jump buttons to make the pages more interactive. Since the classes are too large for hands-on sessions, I just demonstrate concepts with a workstation and projector.

Evaluating reference Web pages is fairly easy. How many hits did we receive in proportion to complaints? Those statistics are dramatic, and I hope to present them in a few minutes. Evaluating instructional pages is much more difficult, and the results are mixed.

Faculty express undying gratitude for their Web pages, and most make suggestions for additional links. There are times when this has become a sticky wicket. Last year two faculty requested access to our server so their teaching assistants could update the corresponding pages. Fortunately for me, the library administration issued an absolute “no.”

In one case, I resolved the problem by downloading the professor’s bookmarks, reformatting them in HTML, sending them to the teaching assistant with instructions, and then linking to the bookmarks from my page.

One faculty member advertised the Web page for his class to the media without mentioning the library. Ultimately I placed a copyright statement at the bottom and added my name in very small letters at the top.

The reaction of students has varied with the class, individual and semester. Students in the School of Public Policy love the research version of Legislative Histories. Sophomores find it overwhelming, the reason the Legislative Histories Tutorial was created. Students in the Arab-Israeli Conflict class use their Web pages exclusively and never enter the library. Graduate students in Public Health and Education use their pages but send me e-mail or walk in if they have difficulty.

Reaction has also changed over time. During 1996/97 students were often seen using Alta Vista rather than their Web page. Faculty complained about the lack of critical analysis in their papers. The situation has turned 180 degrees since September 1997. Students are taking Web research seriously, asking for substantial help and analyzing the material.

Web Site Policies

Policies for creating Internet sites barely existed in April 1995 so we made our own and are now trying them to align them with the library’s (handout, p. 6).

Choice of Links

Although we choose links based on scope, authority, timeliness, and ease-of-use, “whatever works” remains the predominant philosophy. We often choose two similar Web sites for the same information to guard against a server crash.

New links come from a variety of sources: GOVDOC-L, four different versions of the Scout Report, Net-Announce, colleagues, requests from Webmasters, CRL News, the Ann Arbor News, and GODORT-Michigan’s Red Tape. Often I scan another meta-index, such as the International Documents Task Force Web site, when upgrading a section. As always, the best links are those uncovered while answering a reference question or updating a class assignment page.

Duplication

We do not duplicate the work of another Web site already in existence. I am truly grateful for LSU’s directory of Federal agencies, InfoMine’s subject approach, and Uncle Sam’s Reference Shelf.

It’s embarrassing when a Web page created after ours is better, but decisions on handling that are made on a case-by-case basis. I did not enjoy tracking subcommittee assignments so gladly passed the mantle to Juan Cabanela and Mike Waters. The only reasons I continue to track Congressional e-mail are my list’s printability and the cooperation it is fostering between e-mail list maintainers.

Commercial Web Sites

University policy prohibits links to commercial Web sites requiring access fees unless we subscribe to them or they have free information. We do, however, repeat links to the commercial sites we purchase wherever they are relevant. In fact, the University Library has subscribed to so many commercial sites this past year that they have changed the

Documents Center's image. USA Today told me in January that we qualified as a "Hot Site" but it only features "public access" Web pages. They may have missed something.

Graphics

Graphics have always been my Achilles heel. Reviewers have variously described them as wonderful, pedestrian, or cheesy. The "cheesy" really hurt. In my mind, they are simply old-fashioned (handout, p. 7).

The graphics project was designed to entice users into the Web site and then surprise them with content. Small icons were very popular in early 1996. Fashion has changed. First there were image maps, then animated GIFs, followed by frames, colored strips along the lefthand side, and now angular, non-pictorial designs. Since I only have one month per year to work on graphics and a 200-page Web site, I worry about becoming a dinosaur. If all else fails, you can turn the graphics off and still navigate, something I do myself when using a 28.8 modem.

Formatting

We usually delay the use of new HTML tags for six to twelve months so users can update their equipment and Web browsers. Although Netscape 1.22 supported tables, we delayed our dependence on them until Netscape 3.0 was introduced.

GPO's proposal to use frames seemed the most controversial issue at last year's Depository Library Council meeting. Frames are used on our Web site as an index to large clusters of pages, such as the Federal Government, Foreign Governments, or Statistics. It helps us find where we actually put those mortgage calculators. Frames are an option rather than a default because the coding permits us to maintain one page of information rather than two. A sample of optional frames coding appears in your handout on pp. 8-9.

E-Mail Reference

Although we do not specifically advertise e-mail reference service, we receive about three requests per day, a far more modest number than John Shuler receives through DOSFAN. Most questions originate from the East or West coasts, but we've received questions from every continent except Antarctica. Staff divide the effort and average about 15 minutes per question. We have no problem conducting a reference interview via e-mail. Sometimes we can provide a Web source; sometimes we refer to a specific library in the user's area. The questions are taken seriously because we represent the University to the United States, and we represent the United States to the rest of the world.

For the most part users ask questions which cannot be answered by the Web. There are an extraordinary number of questions about Michigan law, which is only available through LEXIS. One person needed help in locating his missing brother. Since his brother's name didn't appear in the National Death Index, I referred him to a private detective agency. In February a journalist from Pakistan asked about American public opinion toward bombing Iraq.

Maintenance

Is this venture time-consuming? You bet! Over the past three years I have spent 2000 hours developing and maintaining the Web site, at least half done from home on evenings and weekends (handout, p. 10). My excuse for gaining weight is not middle age but the location of my home computer, wedged between the basement stairwell and the exercise bike. Until last November, I was spending between eight and fifteen hours per week simply adding new links. The number of relevant new Web sites relevant seems to have slowed in recent months so the pressure has eased.

Those 2000 hours are my time only. So many people have believed in the project and contributed to it. John Downey maintains the foreign country links. John Brandt created several guides and transferred all of our graphics to an image file. Three School of Information students used the Web site as an independent study project. Barbara Perles scanned our first 22 graphics. Maria Schieda spent 400 hours scanning the JFK Executive Orders. Mike Seadle created the Legislative Histories Tutorial.

Impact of the Web Site

Has it been worth the effort? Absolutely!

The most tangible impact of our Web site and the Internet at-large has been the dramatic change in how our unit is used. The statistics we maintain may verify the changes you are seeing in your own libraries.

Between FY 1996 and FY 1997, use of our Web site increased from 2.2 million to 12.8 million hits or 500% (handout, p. 11). I should quickly add that "hits" includes graphics, and we have a heavily graphic Web site. However, the percentage increase reflects the use of the Internet as a whole. Although Web hits are still increasing, the pace has slowed a little. Comparing the last six months of 1996 to 1997, the increase was only 250% rather than 500%.

While Internet use was increasing, Documents Center in-person, telephone, and e-mail reference dropped 25% (handout, p. 11). Comparing the last six months of 1996 to 1997, reference use dropped another 15%, so the pace of decline is slowing as well.

Although the reference numbers have declined, the length of time spent on questions has increased (handout, p. 12). Extended reference questions, those requiring over five minutes, only rose from 23% to 26% of the total between FY 1996 and FY 1997, but they

have comprised a consistent 38% of the total every month since July.

The statistics lead to a remarkable conclusion: **people who have access to the Internet are using the Internet for an initial information search but coming to the library for more complex research.** The data is verified by staff anecdotes, the seriousness with which students are now using their class assignment pages, and the e-mail reference questions we receive.

Implications

This is fantastic news for all of us. It disproves the soothsayers who relegated libraries to archaeology and librarians over 40 to Dr. Jack. **Libraries are here to stay!** We simply need to repackaging what we do in libraries and market it. Here are some ideas:

1. People who have access to the Internet are clearly going to use it. That's okay. Decide what is unique about your own unit and promote it, whether it is Internet access and training, e-mail reference, historical material, one-to-one research consultations, or tax forms. Be confident that you are important to your community.
2. For those of you just developing a departmental Web page, give yourself time but learn at least the basic maintenance skills, whether or not you use outside help. Knowledge is empowering.
3. For senior Webmasters, consider adding something special that no one else has done. There are wonderful document Web sites that receive extra funding, but many others are the work of individual librarians with a crazy idea: Berkeley, Denver, Idaho, Kansas, LSU, Memphis, Michigan State, Northwestern, Penn State, Yale, and too many others to count.
4. Grab the credit for what you are already doing. Count it, whatever it may be, and regardless of whether NCES or ARL ever

revise their statistical measures. Let me give you an example.

The Documents Center's reference statistics dropped 25% in one year to a mere 8000. On the surface the data looks gruesome. But what about the Web hits? One day I cleared the cache on my computer and pretended I was a user. I immediately got lost in my own Web site and didn't find my answer until the seventh page. The items in my cache suggested a mere 1-1/2% equation between Web hits and reference questions. However, using that equation in FY 1997, the Documents Center answered 192,000 questions remotely, 2400% higher than the in-person questions (handout, p. 13). The department's overall productivity has risen 2000% since the advent of the Internet (handout, p. 14). That's just the data for one library unit. Can you imagine the impact of an entire library's statistics on an academic administration or a public library's governing board? Use it!

You know, we Government documents librarians sometimes quote James Madison to excess, but the truth is that we also live it. We go through extraordinary measures to serve the public, and, by some miracle, the public appreciates it. So, after this meeting concludes, go back home, be proud of your profession, and keep climbing those stairs!

Contributors

Daniel C. Barkley
Government Information Librarian
University of New Mexico
Zimmerman General Library
Albuquerque, NM 87131-1466
(505) 277-7180
barkley@umn.edu

George D. Barnum
Electronic Transition Specialist
U.S. Government Printing Office
Library Programs Service (SL)
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-1114
gbarnum@gpo.gov

Kathie Brinkerhoff
Documents Librarian
University of Nevada, Reno
Getchell Library
1664 North Virginia Street
Reno, NV 89557-0044
(702) 784-6500, ext. 258
kbrink@admin.unr.edu

Jonda C. Byrd
National Library Network Program Manager
U.S. Environmental Protection Agency
26 West Martin Luther King Drive
Cincinnati, OH 45268
(513) 569-7183
byrd.jonda@epamail.epa.gov

Chris M. Casey
Technology Advisor
United States Senate
Democratic Technology & Communications
619 Hart Senate Office Building
Washington, DC 20510
(202) 224-3570
chris_casey@dpc.senate.gov

Kathleen Chambers
Product Manager
U.S. Department of Energy
Office of Scientific & Technical Information
P.O. Box 62
Oak Ridge TN 37831
(423) 576-0487
kathy_chambers@ccmail.osti.gov

John M. Ellis
Senior Database Analyst
Wichita State University
National Institute for Aviation Research
318 NIAR, Box 93
Wichita, KS 67260-0093
(316) 978-3873
ellis@wsuhub.uc.twsu.edu

Elizabeth A. Estes
Government Information Librarian
Valparaiso University
Moellering Memorial Library
Union Street
Valparaiso, IN 46383-6493
(219) 464-5693
elizabeth.estes@valpo.edu

Thomas Freebairn
Director
Communications Catalyst
1742 Connecticut Avenue, NW
Washington, DC 20009
(202) 234-9494
freebair@comcat.org

John W. Graham
Head, Public Documents & Patents
Public Library of Cincinnati & Hamilton
County
800 Vine Street - Library Square
Cincinnati, OH 45202-2071
(513) 665-3358
johngraham@plch.lib.oh.us

Catrena L. Hairston
Management Analyst
U.S. Government Printing Office
Office of Electronic Information Dissemination
Service
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-1607
chairston@gpo.gov

Maureen Harris
Head, Public Documents Unit
Clemson University
Robert Muldrow Cooper Library
Palmetto Boulevard
Clemson, SC 29634-3001
(864) 656-5174
maureen@clemson.edu

Cathy N. Hartman
Documents Librarian
University of North Texas
Libraries
P.O. Box 305190
Denton, TX 76203-5190
(940) 565-3269
chartman@library.unt.edu

Robin Haun-Mohamed
Chief, Depository Administration Branch
U.S. Government Printing Office
Library Programs Service (SLLA)
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-1071
rhaun-mohamed@gpo.gov

John A. Hearty
Director, Business Development Division
OCLC
OCLC Online Computer Library Center, Inc.
6565 Frantz Road
Dublin, OH 43017-3395
(800) 848-5878
john_hearty@oclc.org

Stephen Henson
Documents Librarian
Louisiana Tech University
Prescott Memorial Library
Ruston, LA 71272-0046
(318) 257-4989
sdhenson@latech.edu

Virginia W. Hopcroft
Government Documents Librarian
Bowdoin College Library
3003 College Station
Brunswick, ME 04011-8421
(207) 725-3298
ghopcrof@bowdoin.edu

Woody Horton
Consultant
National Commission on Libraries and
Information Science
1110 Vermont Avenue, NW, Suite 820
Washington, DC 20005
(202) 606-9200
wh-nclis@inet.edu.gov

Lorrie Johnson
Technical Information Specialist
U.S. Department of Energy
Office of Scientific & Technical Information
P.O. Box 62
Oak Ridge, TN 37831
(423) 576-1157
lorrie.johnson@ccmail.osti.gov

Paula Kaczmarek
Manager, Government Documents
Detroit Public Library
5201 Woodward Avenue
Detroit, MI 48202-4007
(313) 833-1025
pkaczma@detroit.lib.mi.us

Linda M. Kennedy
Head, Government Information & Maps
University of California, Davis
Shields Library
Davis, CA 95616
(530) 752-1656
lmkennedy@ucdavis.edu

Ridley R. Kessler, Jr.
Documents Librarian
University of North Carolina, Chapel Hill
Davis Library CB #3912
Chapel Hill, NC 27514-8890
(919) 962-1151
kessler.davis@mhs.unc.edu

Deborah P. Klein
Asst. Commissioner, Office of Publications
Bureau of Labor Statistics
U.S. Department of Labor
2 Massachusetts Avenue, NE, Room 4110
Washington, DC 20212
(202) 606-5900
klein_d@bls.gov

Donna P. Koeppe
Head, Government Documents Library
University of Kansas
Government Documents Library
6001 Malott Hall
Lawrence, KS 66045-2800
(785) 864-4660
dkoeppe@ukans.edu

Barbara Levergood
Electronic Documents Librarian
University of North Carolina, Chapel Hill
Davis Library CB #3912
Chapel Hill, NC 27514-8890
(919) 962-1151
leverg.davis@mhs.unc.edu

Teresa Marquez
Head, Government Information Department
University of New Mexico
Zimmerman General Library
Albuquerque, NM 87131-1466
(505) 277-5441
tmarquez@unm.edu

Ann E. Maso
Writer/Editor
Office of the Federal Register
National Archives & Records Administration
Washington, DC 20408
(202) 523-3187
amaso@gpo.gov

James M. Mauldin
Publications Management Specialist
U.S. Government Printing Office
Library Programs Service (SLLA)
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-1698
jmauldin@gpo.gov

John A. McGeachy
Documents Librarian
North Carolina State University
D.H. Hill Library
2205 Hillsborough Street
Raleigh, NC 27695-7111
(919) 515-2936
jack_mcgeachy@library.lib.ncsu.edu

Nancy Mulhern
Head, Documents, Patents & Periodicals
University of North Dakota
Chester Fritz Library
Centennial & University Avenue
Grand Forks, ND 58202-9000
(701) 777-3316
mulhern@plains.nodak.edu

Nan L. Myers
Government Documents Librarian
Wichita State University
Ablah Library
1845 Fairmont
Wichita, KS 67260-0068
(316) 978-5138
myers@twsvum.uc.twsu.edu

Brand L. Niemann
Digital Librarian and Computer Scientist
Center for Environmental Information and
Statistics
U.S. Environmental Protection Agency
(MS-2164)
401 M Street, SW
Washington, DC 20460
(202) 260-2510
niemann.brand@epa.gov

Coleen Parmer
Head, Government Documents
Bowling Green State University
Jerome Library
Ridge Street
Bowling Green, OH 43403
(419) 372-7826
parmer@bgnet.bgsu.edu

Stephen A. Patrick
Head, Documents, Law & Maps
East Tennessee State University
Sherrod Library
Pedestrian Mall, Main Campus
Johnson City, TN 37614
(423) 439-6994
patrick@sherserv.etsu.edu

Ruth S. Pitt
Computer Specialist, Web Support
U.S. Securities and Exchange Commission
Office of Information Technology, Operations
Center
6432 General Green Way
Alexandria, VA 22312
(202) 942-8612
pittr@sec.gov

Ann Marie Sanders
Depository Librarian
Library of Michigan
P.O. Box 30007
717 West Allegan Street
Lansing, MI 48909-7507
(517) 373-9489
asanders@libofmich.lib.mi.us

Virginia F. Saunders
Congressional Documents Specialist
U.S. Government Printing Office
Congressional Printing Management Division
(CSC)
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-0290

Fred C. Schmidt
Government Documents Specialist
Colorado State University
William E. Morgan Library
Fort Collins, CO 80523-1019
(970) 491-1881
fcschmidt@manta.colostate.edu

Sandy Schwalb
Management Analyst
U.S. Government Printing Office
Library Programs Service (SL)
732 North Capitol Street NW
Washington, DC 20401
(202) 512-1114
smorton-schwalb@gpo.gov

Gail Snider
Library Inspector
U.S. Government Printing Office
Library Programs Service (SLLD)
732 North Capitol Street, NW
Washington, DC 20401
(202) 512-1119
bsnider@gpo.gov

Cynthia M. Teague
Federal Documents Librarian
Michigan State University
Main Library
West Circle Drive
East Lansing, MI 48824-1048
(517) 432-1749
teaguec@pilot.msu.edu

Cheryl B. Truesdell
Government Documents Librarian
Indiana University-Purdue University, Fort
Wayne
Helmke Library
2101 East Coliseum Boulevard
Fort Wayne IN 46805-1499
(219) 481-6506
truesdel@ipfw.indiana.edu

Kristin M. Vajs
Director, Office of Database Programs
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
(703) 605-6574
kvajs@ntis.fedworld.gov

John S. Walters
Head, Government Documents
Utah State University
Merrill Library
University Hill
Logan, UT 84322-3000
(801) 797-2684
johwal@ngw.lib.usu.edu

Walter L. Warnick
Director
U.S. Department of Energy
Office of Scientific & Technical Information
19901 Germantown Road, MS F-240
Germantown, MD 20874
(202) 586-8842
walter.warnick@oer.doe.gov

Grace A. York
Coordinator, Documents Center
University of Michigan
Hatcher Graduate Library
Ann Arbor, MI 48109-1205
(734) 936-2378
graceyor@umich.edu

