

Reed's new commander, Major General Eric R. Schoomaker, will rebuild trust in the Army's medical service. I am also hopeful that a number of corrective actions announced last week by Army Chief of Staff Peter Schoomaker will help ensure each soldier receives the care which he or she deserves and that no one, no one, falls through the cracks.

AL GORE

(Mr. PITTS asked and was given permission to address the House for 1 minute and to revise and extend his remarks.)

Mr. PITTS. Mr. Speaker, our former Vice President, Al Gore, hasn't gotten so much attention since he invented the Internet.

But behind the Oscars, behind the left's unending praise, behind the fawning media coverage lies the truth. And, unfortunately, that truth is pretty inconvenient.

It seems that one of the biggest violators of Gore's own environmental doctrines is Al Gore himself. While he jets around on the global warming celebrity circuit telling everyone else how to live a greener life, his own home in Tennessee is consuming nearly 20 times the energy of the average American home.

Gore defends this conspicuous consumption by purchasing carbon emission offsets. But he buys those offsets from a company he helped create and he currently chairs.

Mr. Speaker, global warming may or may not be an inconvenient truth. But apparently for Al Gore, practicing what you preach is the most inconvenient thing of all.

ANNOUNCEMENT BY THE SPEAKER
PRO TEMPORE

The SPEAKER pro tempore. Pursuant to clause 8 of rule XX, the Chair will postpone further proceedings today on motions to suspend the rules on which a recorded vote or the yeas and nays are ordered, or on which the vote is objected to under clause 6 of rule XX.

Record votes on postponed questions will be taken after 6:30 p.m. today.

AMENDING THE HIGH-PERFORMANCE
COMPUTING ACT OF 1991

Mr. BAIRD. Mr. Speaker, I move to suspend the rules and pass the bill (H.R. 1068) to amend the High-Performance Computing Act of 1991, as amended.

The Clerk read as follows:

H.R. 1068

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

**SECTION 1. HIGH-PERFORMANCE COMPUTING
RESEARCH AND DEVELOPMENT
PROGRAM.**

Title I of the High-Performance Computing Act of 1991 (15 U.S.C. 5511 et seq.) is amended—

(1) in the title heading, by striking “**AND THE NATIONAL RESEARCH AND EDUCATION NETWORK**” and inserting “**RESEARCH AND DEVELOPMENT**”;

(2) in section 101(a)—

(A) by striking subparagraphs (A) and (B) of paragraph (1) and inserting the following:

“(A) provide for long-term basic and applied research on high-performance computing;

“(B) provide for research and development on, and demonstration of, technologies to advance the capacity and capabilities of high-performance computing and networking systems;

“(C) provide for sustained access by the research community in the United States to high-performance computing systems that are among the most advanced in the world in terms of performance in solving scientific and engineering problems, including provision for technical support for users of such systems;

“(D) provide for efforts to increase software availability, productivity, capability, security, portability, and reliability;

“(E) provide for high-performance networks, including experimental testbed networks, to enable research and development on, and demonstration of, advanced applications enabled by such networks;

“(F) provide for computational science and engineering research on mathematical modeling and algorithms for applications in all fields of science and engineering;

“(G) provide for the technical support of, and research and development on, high-performance computing systems and software required to address Grand Challenges;

“(H) provide for educating and training additional undergraduate and graduate students in software engineering, computer science, computer and network security, applied mathematics, library and information science, and computational science; and

“(I) provide for improving the security of computing and networking systems, including Federal systems, including research required to establish security standards and practices for these systems.”;

(B) by striking paragraph (2) and redesignating paragraphs (3) and (4) as paragraphs (2) and (3), respectively;

(C) in paragraph (2), as so redesignated by subparagraph (B) of this paragraph—

(i) by striking subparagraph (B);

(ii) by redesignating subparagraphs (A) and (C) as subparagraphs (D) and (F), respectively;

(iii) by inserting before subparagraph (D), as so redesignated by clause (ii) of this subparagraph, the following new subparagraphs:

“(A) establish the goals and priorities for Federal high-performance computing research, development, networking, and other activities;

“(B) establish Program Component Areas that implement the goals established under subparagraph (A), and identify the Grand Challenges that the Program should address;

“(C) provide for interagency coordination of Federal high-performance computing research, development, networking, and other activities undertaken pursuant to the Program.”; and

(iv) by inserting after subparagraph (D), as so redesignated by clause (ii) of this subparagraph, the following new subparagraph:

“(E) develop and maintain a research, development, and deployment roadmap for the provision of high-performance computing systems under paragraph (1)(C); and”;

(D) in paragraph (3), as so redesignated by subparagraph (B) of this paragraph—

(i) by striking “paragraph (3)(A)” and inserting “paragraph (2)(D)”;

(ii) by amending subparagraph (A) to read as follows:

“(A) provide a detailed description of the Program Component Areas, including a description of any changes in the definition of or activities under the Program Component Areas from the preceding report, and the reasons for such changes, and a description of Grand Challenges supported under the Program.”;

(iii) in subparagraph (C), by striking “specific activities” and all that follows through “the Network” and inserting “each Program Component Area”;

(iv) in subparagraph (D), by inserting “and for each Program Component Area” after “participating in the Program”;

(v) in subparagraph (D), by striking “applies;” and inserting “applies; and”;

(vi) by striking subparagraph (E) and redesignating subparagraph (F) as subparagraph (E); and

(vii) in subparagraph (E), as so redesignated by clause (vi) of this subparagraph, by inserting “and the extent to which the Program incorporates the recommendations of the advisory committee established under subsection (b)” after “for the Program”;

(3) by striking subsection (b) of section 101 and inserting the following:

“(b) ADVISORY COMMITTEE.—(1) The President shall establish an advisory committee on high-performance computing consisting of non-Federal members, including representatives of the research, education, and library communities, network providers, and industry, who are specially qualified to provide the Director with advice and information on high-performance computing. The recommendations of the advisory committee shall be considered in reviewing and revising the Program. The advisory committee shall provide the Director with an independent assessment of—

“(A) progress made in implementing the Program;

“(B) the need to revise the Program;

“(C) the balance between the components of the Program, including funding levels for the Program Component Areas;

“(D) whether the research and development undertaken pursuant to the Program is helping to maintain United States leadership in high-performance computing and networking technology; and

“(E) other issues identified by the Director.

“(2) In addition to the duties outlined in paragraph (1), the advisory committee shall conduct periodic evaluations of the funding, management, coordination, implementation, and activities of the Program, and shall report not less frequently than once every two fiscal years to the Committee on Science of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate on its findings and recommendations. The first report shall be due within one year after the date of enactment of this paragraph.

“(3) Section 14 of the Federal Advisory Committee Act shall not apply to the advisory committee established by this subsection.”; and

(4) in section 101(c)(1)(A), by striking “Program or” and inserting “Program Component Areas or”.

SEC. 2. DEFINITIONS.

Section 4 of the High-Performance Computing Act of 1991 (15 U.S.C. 5503) is amended—

(1) in paragraph (2), by inserting “and multidisciplinary teams of researchers” after “high-performance computing resources”;

(2) in paragraph (3)—

(A) by striking “scientific workstations.”;

(B) by striking “(including vector supercomputers and large scale parallel systems)”;

(C) by striking “and applications” and inserting “applications”; and

(D) by inserting “, and the management of large data sets” after “systems software”;

(3) in paragraph (4), by striking “packet switched”;

(4) by striking “and” at the end of paragraph (5);

(5) by striking the period at the end of paragraph (6) and inserting “; and”; and

(6) by adding at the end the following new paragraph:

“(7) ‘Program Component Areas’ means the major subject areas under which are grouped related individual projects and activities carried out under the Program.”.

The SPEAKER pro tempore. Pursuant to the rule, the gentleman from Washington (Mr. BAIRD) and the gentleman from Texas (Mr. HALL) each will control 20 minutes.

The Chair recognizes the gentleman from Washington.

GENERAL LEAVE

Mr. BAIRD. Mr. Speaker, I ask unanimous consent that all Members may have 5 legislative days to revise and extend their remarks and to include extraneous materials on H.R. 1068, the bill now under consideration.

The SPEAKER pro tempore. Is there objection to the request of the gentleman from Washington?

There was no objection.

Mr. BAIRD. Mr. Speaker, I yield myself such time as I may consume.

I rise in support of H.R. 1068, a bill to amend the High-Performance Computing Act of 1991. This is a bipartisan bill which Congresswoman BIGGERT and I introduced.

I want particularly to acknowledge the role Mrs. BIGGERT has played in working to develop this legislation over the past several years. This bill is based on a bill introduced by Congresswoman BIGGERT and Congressman LINCOLN DAVIS during the past two Congresses. And in both those Congresses, the bill passed the House.

I also want to thank Chairman GORDON and Ranking Member HALL for their support for the legislation, for helping to advance it through the committee and to bring it to the floor.

H.R. 1068 will improve the planning and coordination process for the major Federal interagency research program in information technology. Information technology is a major driver of economic growth. It creates high-wage jobs, provides for rapid communication throughout the world, and provides the tools for acquiring knowledge.

For example, information technology helps to make the workplace more productive, to improve the quality of health care, and to make government more responsive and accessible to the needs of our citizens.

High-performance computing and networking is not only an essential component of U.S. scientific competitiveness, it also has important industrial, medical, and defense applications.

Vigorous long-term research is essential for realizing the potential of information technology. The technical ad-

vances that led to today’s computers and the Internet evolved from past federally sponsored research, in partnership with industry and universities. High-performance computing is necessary as we work to develop new ways to transfer vast amounts of information around the world.

The depth and strength of U.S. capability in information technology stems in part from the sustained research and development program carried out by Federal research agencies under a program codified by the High-Performance Computing Act of 1991. That act is widely credited with reinvigorating U.S. high-performance computing capabilities after a period of relative decline during the late 1980s.

The 1991 act created a multi-agency R&D program to accelerate development of information technology and to attack challenging computational science and engineering problems. The 1991 act also put in place a formal process for planning and budgeting for the activities carried out under the interagency R&D program, which is formally known as the Networking and Information Technology R&D Program.

The need for this legislation today arises from what I would characterize as a weakening over time of the planning and prioritization process for the program.

In order to maintain our competitiveness, we must ensure that the resources available to advance high-performance computing technology are allocated to the highest priority areas and that the activities supported are carefully coordinated among the performing agencies.

Toward that end, H.R. 1068 requires formal biennial reviews of the interagency program by its external advisory committee in order to provide advice from the research community and from the information technology industries on how to sharpen program priorities and improve program implementation. Also, the required annual progress report for the program must now include a formal response to the recommendations of the advisory committee.

H.R. 1068 calls on the agencies carrying out the program to focus more effort on high-end computing. The key requirement is for the Office of Science and Technology Policy to create and maintain a road map for developing and deploying high-end systems necessary to ensure that the U.S. research community has sustained access to the most capable computing systems.

Finally, this bill clarifies the grand challenge problems supported under the interagency program, such as clean energy production, climate change, and patient safety and health quality, which are intended to involve multidisciplinary teams of researchers and demand the most capable high-performance computing and networking resources.

Consistent with this requirement, the bill also specifies the provisions for

access to high-end computing systems includes technical support to users of these systems.

Mr. Speaker, the interagency information technology research program launched by the 1991 act has been largely a success. H.R. 1068 will serve to strengthen this vital research program and deserves the approval of this House. I ask my colleagues for their support in passing H.R. 1068.

Mr. Speaker, I reserve the balance of my time.

Mr. HALL of Texas. Mr. Speaker, I yield myself such time as I may consume.

Mr. Speaker, I rise today in support of H.R. 1068. It will strengthen the High-Performance Computing Act of 1991.

Tomorrow, the Committee on Science and Technology will hold a hearing on U.S. innovation and competitiveness. High-performance computers have a role to play in our economic competitiveness, as they vastly enhance our ability to perform very complex computations quickly and they do it efficiently. H.R. 1068 will help ensure that American researchers have access to the very best tools available as they tackle cutting-edge problems in key fields such as nanotechnology, homeland security, and biotechnology. In addition, this bill helps reinforce the Federal commitment to “supercomputing,” a commitment that becomes increasingly more important as European and Asian countries continue to increase their investment in developing and purchasing the next generation of supercomputers.

Nobody knows this measure better than my distinguished colleague from Illinois (Mrs. BIGGERT). She has worked tirelessly in two previous Congresses to have this important legislation enacted. In fact, she has been successful in the House on both occasions, only to see it stall on the Senate side.

In an effort to keep that from happening again, we have made a few modifications to help ensure it gets Senate support. With these slight alterations, I hope we will find that the third time is a charm.

I urge my colleagues to support H.R. 1068.

Mr. Speaker, I reserve the balance of my time.

Mr. BAIRD. Mr. Speaker, I have no further requests for time, and I reserve the balance of my time.

Mr. HALL of Texas. Mr. Speaker, I yield 5 minutes to the gentlewoman from Illinois (Mrs. BIGGERT).

Mrs. BIGGERT. Mr. Speaker, I thank my colleague from Texas, the ranking member of the Science Committee, for yielding me the time.

And I am so pleased to be the cosponsor of this bill that was introduced by my friend and colleague, the gentleman from Washington (Mr. BAIRD). He has been a great member on the Science Committee for several years. This bill may seem familiar to many of my colleagues in the House and for

good reason. In both the 108th and 109th Congresses, we did introduce legislation that would do exactly the same thing as the bill we are considering today with some additions. H.R. 4218 in the 108th Congress and H.R. 28 in the 109th Congress were approved not only overwhelmingly by the Science Committee but by the full House of Representatives.

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Unfortunately, because of jurisdictional complications, our friends in the other body across the rotunda had never considered this legislation. It had been endorsed by the President's science adviser, Dr. Marburger, several years ago. It is a real shame that it hasn't moved forward, but we are really happy we are. I think, going to have both sides of the aisle work on it this time.

At the time when we first introduced the High Performance Computing Revitalization Act in April of 2004, a new Japanese supercomputer, the Earth Simulator, was the fastest supercomputer in the world, a title it held for well over 2 years, from June 2002 through November of 2004.

Some experts claimed that Japan was able to produce a computer far ahead of American machines because the U.S. had taken an overly cautious or conventional approach to computing R&D. In hindsight, we see that caution meant lost opportunities.

Granted a lot has changed since November of 2004. The U.S. is now home to not only the world's fastest supercomputer, but seven of the 10 fastest, thanks to the hard work and competitive spirit of people at IBM, Cray and Silicon Graphics, as well as the Department of Energy and NSF.

But we must retain the leadership and development and use of supercomputers. As confirmed by reports of the Council on Competitiveness and the President's Information Technology Advisory Committee, supercomputers are essential to maintaining U.S. leadership in many scientific fields and have many applications, from pharmaceuticals and climate to national and homeland security.

That is why the bill that we are considering today is so important. It is designed to ensure U.S. preeminence and competitiveness in computational science. This bill commits the Federal Government to providing the research community with sustained access to the highest end supercomputers, supporting all aspects of high performance computing, including software development and data management for scientific and engineering applications, and developing and maintaining a road map for computational science in the fields that require it.

I am honored to have worked with the chairman of the Research and Science Education Subcommittee, Mr. BAIRD, on this straightforward, commonsense legislation, and I have good reason to be hopeful that it will pass.

As my colleague from Washington has already indicated, we made changes in this bill, simple changes, that would help our colleagues in the other body avoid those jurisdictional problems that they seem to have sometimes that have stymied their consideration of this bill in the past.

In closing, I just want to say that this bill will provide researchers in the United States with the computing resources they need to remain world class. Our Nation's scientific enterprise and our economy will be stronger for it.

I urge my colleagues to support H.R. 1068.

Mr. BAIRD. Mr. Speaker, I will just very briefly again commend Mrs. BIGGERT for her leadership on this. She has been steadfast and dogged on this. We hope with the changes we made to this bill, it will meet the approval of the other body. This is not a partisan issue. This is about keeping American science and industry at the very forefront of the world. This bill will help us do that.

Mr. HALL of Texas. Mr. Speaker, I have no further requests for time, and I yield back the balance of my time.

Mr. BAIRD. Mr. Speaker, I have no further requests for time, and I yield back the balance of my time.

The SPEAKER pro tempore. The question is on the motion offered by the gentleman from Washington (Mr. BAIRD) that the House suspend the rules and pass the bill, H.R. 1068, as amended.

The question was taken; and (two-thirds being in the affirmative) the rules were suspended and the bill, as amended, was passed.

A motion to reconsider was laid on the table.

ENERGY TECHNOLOGY TRANSFER ACT

Mr. BAIRD. Mr. Speaker, I move to suspend the rules and pass the bill (H.R. 85) to provide for the establishment of centers to encourage demonstration and commercial application of advanced energy methods and technologies, as amended.

The Clerk read as follows:

H.R. 85

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the "Energy Technology Transfer Act".

SEC. 2. ENERGY TECHNOLOGY TRANSFER.

Section 917 of the Energy Policy Act of 2005 (42 U.S.C. 16197) is amended to read as follows:

"SEC. 917. ADVANCED ENERGY TECHNOLOGY TRANSFER CENTERS.

"(a) GRANTS.—Not later than 18 months after the date of enactment of the Energy Technology Transfer Act, the Secretary shall make grants to nonprofit institutions, State and local governments, cooperative extension services, or institutions of higher education (or consortia thereof), to establish a geographically dispersed network of Advanced Energy Technology Transfer Centers, to be located in areas the Secretary deter-

mines have the greatest need of the services of such Centers. In making awards under this section, the Secretary shall—

"(1) give priority to applicants already operating or partnered with an outreach program capable of transferring knowledge and information about advanced energy efficiency methods and technologies;

"(2) ensure that, to the extent practicable, the program enables the transfer of knowledge and information—

"(A) about a variety of technologies and

"(B) in a variety of geographic areas;

"(3) give preference to applicants that would significantly expand on or fill a gap in existing programs in a geographical region; and

"(4) consider the special needs and opportunities for increased energy efficiency for manufactured and site-built housing, including construction, renovation, and retrofit.

"(b) ACTIVITIES.—Each Center shall operate a program to encourage demonstration and commercial application of advanced energy methods and technologies through education and outreach to building and industrial professionals, and to other individuals and organizations with an interest in efficient energy use. Funds awarded under this section may be used for the following activities:

"(1) Developing and distributing informational materials on technologies that could use energy more efficiently.

"(2) Carrying out demonstrations of advanced energy methods and technologies.

"(3) Developing and conducting seminars, workshops, long-distance learning sessions, and other activities to aid in the dissemination of knowledge and information on technologies that could use energy more efficiently.

"(4) Providing or coordinating onsite energy evaluations, including instruction on the commissioning of building heating and cooling systems, for a wide range of energy end-users.

"(5) Examining the energy efficiency needs of energy end-users to develop recommended research projects for the Department.

"(6) Hiring experts in energy efficient technologies to carry out activities described in paragraphs (1) through (5).

"(c) APPLICATION.—A person seeking a grant under this section shall submit to the Secretary an application in such form and containing such information as the Secretary may require. The Secretary may award a grant under this section to an entity already in existence if the entity is otherwise eligible under this section. The application shall include, at a minimum—

"(1) a description of the applicant's outreach program, and the geographic region it would serve, and of why the program would be capable of transferring knowledge and information about advanced energy technologies that increase efficiency of energy use;

"(2) a description of the activities the applicant would carry out, of the technologies that would be transferred, and of any other organizations that will help facilitate a regional approach to carrying out those activities;

"(3) a description of how the proposed activities would be appropriate to the specific energy needs of the geographic region to be served;

"(4) an estimate of the number and types of energy end-users expected to be reached through such activities; and

"(5) a description of how the applicant will assess the success of the program.

"(d) SELECTION CRITERIA.—The Secretary shall award grants under this section on the basis of the following criteria, at a minimum:

"(1) The ability of the applicant to carry out the proposed activities.

"(2) The extent to which the applicant will coordinate the activities of the Center with other entities as appropriate, such as State and local governments, utilities, institutions of higher education, and National Laboratories.

"(3) The appropriateness of the applicant's outreach program for carrying out the program described in this section.