

chemistries to prevent catastrophic failures due to over charge, over discharge and temperature excursions. In conjunction with the necessary safety aspects of the power system, a management function is necessary to achieve maximum performance. Maximum performance is achieved by monitoring individual cell voltages, temperature and currents and using this information to control each cell's charging based on environments. By managing the system at the cell level, premature power system degradation and failure can be greatly reduced. This translates into reduced maintenance costs, increased battery life, increased performance and overall increased safety. The use of taxpayer funds is justified because the results from advancements in overall safety and chemistry not only provide safety for aircraft applications but can also be transitioned to the commercial, industrial, military as well as consumer product industries. The next generation of energy storage can be achieved. In addition, by leveraging the results from efforts on current projects, advancements toward new technologies can be realized sooner. These batteries have significant weight and power density advantages over legacy technologies that are currently in use.

Priority Name: Long-Loiter, Load Bearing Antenna Platform for Pervasive Airborne Intelligence

Authorized Amount: \$5 million

Account: Aerospace Technology Dev/Demo

Legal Name of Requesting Entity: Missouri State University/QuinetiQ North America

Address of Requesting Entity: 901 S National Ave, Springfield, MO 65804

Description of Request: This funding will be used toward a revolutionary approach to the realization of truly load bearing antenna arrays. In addition to load bearing antennas, the DF hardware will be structurally integrated such that weight is minimized. DF algorithms have been developed and modifications for the severe conditions in Afghanistan will be used as a baseline. The use of taxpayer funds is justified because this new, affordable, antenna platform will significantly increase the DF capabilities of the Zephyr platform. This will enable rapid deployment and affordable assets in theater, adding significantly to the nation's assets.

Priority Name: Self-Decontaminating Polymer System for Chemical and Biological Weapons Systems

Authorized Amount: \$3.5 million

Account: Chemical And Biological Defense Program

Legal Name of Requesting Entity: Missouri State University/Lumimove d/b/a Crosslink

Address of Requesting Entity: 524 N Boonville, Springfield, MO 65806

Description of Request: This funding will be used to continue development of an on-demand, self-generating and self-renewing polymer-based decontamination system that produces, in real time, activated hydrogen peroxide for the destruction of chemical and biological warfare agents on fabrics for collective and individual protection applications. Hydrogen peroxide is known to be an effective broad spectrum decontamination agent for both chemical and biological warfare agents. The system will interface with state-of-the-art chemical and biological stand-off sensors currently deployed in theater and will react to signals generated by such sensors to initiate the

production of the activated hydrogen peroxide. Such a system will reduce the logistic burden associated with maintaining product stores in theater and the continuous monitoring of the product due to loss of effectiveness.

#### EARMARK DECLARATION

### HON. JUDY BIGGERT

OF ILLINOIS

IN THE HOUSE OF REPRESENTATIVES

*Tuesday, July 28, 2009*

Mrs. BIGGERT. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information regarding earmarks I received as part of H.R. 3326, the Department of Defense Appropriations Act, 2010.

Requesting Member: U.S. Representative JUDY BIGGERT

Bill Number: H.R. 3326

Account: RDTE,A

Legal Name of Requesting Entity: Argonne National Laboratory

Address of Requesting Entity: 9700 South Cass Avenue, Argonne, IL 60439

Description of Remarks: Provide an earmark of \$5,000,000 for Argonne National Lab, which is collaborating with the Commonwealth of Kentucky in an industrial consortium to advance battery materials and manufacturing. The main objective is to make breakthroughs in new battery materials and electro-chemistry critically needed to move forward to practical, competitive transportation solutions and for efficient storage of electricity generated from distributed renewable energy sources.

#### SOUTHERN SEA OTTER RECOVERY AND RESEARCH ACT

SPEECH OF

### HON. LOIS CAPPS

OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES

*Monday, July 27, 2009*

Mrs. CAPPS. Mr. Speaker, I rise today to express my support for H.R. 556, the Southern Sea Otter Recovery and Research Act.

I want to thank my neighbor, SAM FARR, for introducing this legislation, which I have co-sponsored. We both represent districts that are home to the southern sea otter, and so this topic is of great concern to me and my constituents.

Sea otters on the California coast are dying. A recent study by the U.S. Geological Survey found that otter populations are down 3.8 percent from last year, the fastest decline since the 1990s.

We need to act, and we need to act now. Scientists believe that these elevated mortality rates are linked to water pollution, but continued research is needed to clearly understand the pathways of diseases and to learn how to protect the sea otter. And we need to take concrete action to recover the population.

H.R. 556 requires the Fish and Wildlife Service, in conjunction with the U.S. Geological Survey, to carry out just such a research and recovery program.

This program requires monitoring, analysis, and assessment of population health and mortality, and directs the agencies to find ways to

reduce or eliminate those factors that might be causing the decline in sea otter populations.

The health of Central California's marine ecosystem and economy depends in large part on the health of the sea otter.

Sea otters are keystone species and economic drivers. By foraging on sea urchins they help to maintain a lively kelp forest environment. Kelp forests, in turn, influence oceanographic patterns, ensure a healthy habitat for many commercially important fish species, and provide countless recreational opportunities. As a symbol of California, sea otters also bring in droves of tourists who want to nature watch and purchase merchandise.

This bill is not just about preserving one species, but about preserving an ecosystem, an economy, and a way of life. In these uncertain times, we must fight to preserve all that we can. The science is clear; the sea otters need our help. And, quite frankly, we need theirs.

I urge all of my colleagues to vote in support of H.R. 556.

#### EARMARK DECLARATION

### HON. ANH "JOSEPH" CAO

OF LOUISIANA

IN THE HOUSE OF REPRESENTATIVES

*Tuesday, July 28, 2009*

Mr. CAO. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information regarding earmarks I received as part of H.R. 3266—the Defense Appropriations Act, 2010:

As requested by me, Rep. ANH "JOSEPH" CAO, H.R. 3266—the Defense Appropriations Act, 2010, for Space and Naval Warfare Systems Center Atlantic Office in New Orleans. This is in the "OP,N" account in the amount of \$7,500,000.—This funding would sustain critical joint Navy/university information systems research and technology transfer, in partnership with the University of New Orleans and local IT companies recovering from the aftermath of Hurricane Katrina. Funding will update the current operations environment at the SSC/ITC, which is now becoming obsolete and needs to be refreshed with a more up-to-date computer environment. This is a good use of taxpayer dollars because, due to the aging equipment, major failure of one or several components is imminent, putting the Data Center at risk for a catastrophic failure, including loss or damage of millions of dollars in IT equipment.

#### EARMARK DECLARATION

### HON. STEVE SCALISE

OF LOUISIANA

IN THE HOUSE OF REPRESENTATIVES

*Tuesday, July 28, 2009*

Mr. SCALISE. Madam Speaker, pursuant to the Republican Leadership standards on Congressionally-directed project funding, I am submitting the following information regarding project funding I requested for Southeast Louisiana as part of the Fiscal Year 2010 Defense Appropriations bill.

Requesting Member: Congressman STEVE SCALISE

Bill Number: Fiscal Year 2010 Defense Appropriations Bill

Account: Information Technology Development

Legal Name of Requesting Entity: Space & Naval Warfare Systems Command (SPAWAR)  
Address of Requesting Entity: 2251 Lakeshore Drive, New Orleans, LA 70145

Description of Request: I have secured \$2,500,000 for Space & Naval Warfare Systems Command (SPAWAR). It will fund a 3D modeling simulation which will allow NASA and DOD to model their manufacturing and testing complexes, facilities, and processes prior to deployment. Modeling prior to development reduces initial costs and minimizes ongoing production. I certify that neither I nor my spouse has any financial interest in this project.

Requesting Member: Congressman STEVE SCALISE

Bill Number: Fiscal Year 2010 Defense Appropriations Bill

Account: Enterprise Information Technology  
Legal Name of Requesting Entity: Space & Naval Warfare Systems Command (SPAWAR)  
Address of Requesting Entity: 2251 Lakeshore Drive, New Orleans, LA 70145

Description of Request: I have secured \$7,500,000 for Space & Naval Warfare Systems Command (SPAWAR). The funds will be used for sustaining critical joint Navy/University information systems research and technology transfer in partnership with the University of New Orleans and local small businesses and industry. Funding will update the current operations environment at the Space and Naval Warfare Systems Center. I certify that neither I nor my spouse has any financial interest in this project.

Requesting Member: Congressman STEVE SCALISE

Bill Number: Fiscal Year 2010 Defense Appropriations Bill

Account: Special Operating Forces Underwater Systems

Legal Name of Requesting Entity: Space & Naval Warfare Systems Command (SPAWAR)  
Address of Requesting Entity: Naval Special Warfare, San Diego, CA 92135

Description of Request: I have secured \$1,000,000 for Space & Naval Warfare Systems Command (SPAWAR). It will fund a new generation submersible, capable of conducting insertion & extraction of Special Operation Forces personnel and/or their payloads. Technology services would be headquartered in Mandeville, Louisiana. I certify that neither I nor my spouse has any financial interest in this project.

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#### EARMARK DECLARATION

### HON. JUDY BIGGERT

OF ILLINOIS

IN THE HOUSE OF REPRESENTATIVES

*Tuesday, July 28, 2009*

Mrs. BIGGERT. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information regarding earmarks I received as part of H.R. 3326, the Department of Defense Appropriations Act, 2010.

Requesting Member: U.S. Representative JUDY BIGGERT

Bill Number: H.R. 3326

Account: OM, AF

Legal Name of Requesting Entity: Chemring Scot Inc.

Address of Requesting Entity: 2525 Curtiss Street, Downers Grove, IL 60515

Description of Remarks: Provide an earmark of \$2,000,000 for Chemring Scot Inc. for the procurement of Joint Aircrew Combined System Testers (JCAST). The JCAST is a self-contained, portable tester, eliminating the need for multiple pieces of equipment to test aircrew flight equipment.

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#### EARMARK DECLARATION

### HON. BILL SHUSTER

OF PENNSYLVANIA

IN THE HOUSE OF REPRESENTATIVES

*Tuesday, July 28, 2009*

Mr. SHUSTER. Madam Speaker, consistent with the Republican Leadership's policy on earmarks, I am submitting this statement.

Requesting Member: Congressman BILL SHUSTER (PA—9)

Bill Number: H.R. 3326—Department of Defense Appropriations Act, FY 2010

DEFENSE APPROPRIATIONS PROJECTS

Project Name: Cadmium Emissions Reduction—Letterkenny Army Depot

Account: RDTE, A

Legal Name of Requesting Entity: Mountain Research, LLC

Address of Requesting Entity: 825 25th Street, Altoona, PA 16601

Description of Request/Justification of Federal Funding: \$1,000,000 for Cadmium Emissions Reduction—Letterkenny Army Depot

This project is a valuable use of taxpayer funds because this work will help Letterkenny Army Depot conduct environmental management activities in an environmentally and fiscally sound, sustainable manner.

Letterkenny's unique mission, which includes manufacturing, depot level maintenance, and demilitarization, presents significant challenges to maintaining operations while achieving aggressive sustainability targets and goals. Specifically, this project will assist in addressing federal and state regulatory issues associated with the reduction of cadmium levels in waste water effluent outflows. This technology implementation will also serve as a demonstration site to facilitate horizontal technology transfer to surrounding Pennsylvania military installations, other Army depots, and installations across the Department of Defense.

Project Name: Defense Support for Civil Authorities for Key Resource Protection

Account: RDTE, A

Legal Name of Requesting Entity: L. Robert Kimball & Associates

Address of Requesting Entity: 615 West Highland Avenue, Ebensburg, PA 15931

Description of Request/Justification of Federal Funding: \$1,000,000 for Defense Support for Civil Authorities for Key Resource Protection

The Defense Support for Civil Authorities (DSCA) for Key Resource Protection—South Central, PA project is part of efforts led by U.S. Army ARDEC at Picatinny, New Jersey combing and harmonizing a number of Homeland Defense and Homeland Security programs under the umbrella of Project National Shield (PNS). The National Infrastructure Pro-

tection Plan (NIPP) mandates a coordinated approach to Critical Infrastructure and Key Resources (CIKR) protection roles and responsibilities for federal, state, local, tribal, and private sector security partners. The ability to sense, detect and respond to threats to CIKR will require regional communication and information sharing capabilities. The fundamental geospatial data needed to manage CIKR risk and establish the framework for assessing consequences, vulnerability, and threat information is available in jurisdictions across the country. Not available, however, are Enterprise Geographic Information Systems (EGIS) that span political jurisdictions, regions or states and can produce the comprehensive, systematic, and rational assessment of national or sector risk.

South Central Pennsylvania houses a major freight transportation hub (CSX railway) and Army weapons depot (Letterkenny) within miles of each other. This proposal will establish EGIS in South Central PA to advance NIPP objectives. Response-specific intelligence will provide emergency responders and homeland defense personnel with essential situational awareness information required to protect critical infrastructure.

This project is a valuable use of taxpayer funds because it meets a critical Army need to improve Homeland Defense and Civil Support missions while also providing enhanced capabilities to local constituencies in the communications and networking side of emergency response. Specifically, the program represents the actual full deployment of a critical network that will allow local Emergency Management personnel and first responders to communicate as well as provide for a tie in to the Army's Emergency Operations Center at Picatinny Arsenal.

Project Name: Nurse Education Center of Excellence for Remote and Medically Under-served Populations

Account: RDTE, A

Legal Name of Requesting Entity: Saint Francis University

Address of Requesting Entity: 117 Evergreen Drive, Loretto, PA 15940

Description of Request/Justification of Federal Funding:

\$2,000,000 for Nurse Education Center of Excellence for Remote and Medically Under-served Populations (CERMUSA)

This project will allow CERMUSA to collaborate with clinical partners and other key Army stakeholders to develop and implement a multi-pronged strategy to address the core issues impacting the military's ability to maintain the supply of active duty registered nurses.

This project is a valuable use of taxpayer funds because these strategies will serve to address the shortages of registered nurses as well as nurse educators and will, as a final outcome, function as a core strategy for recruitment and retention.

Currently, the Army has approximately 59,000 enlisted personnel serving as medics in a variety of theatres, including Iraq and Afghanistan. These medics are promising nursing students because of their affinity for treating and managing injured warriors. Despite the formal training supplied by the Army and the vast life support skills they acquire, they possess no diploma or certification to practice healthcare in civilian institutions. Many medics pursue a career in healthcare once leaving active duty. On the sheer basis of volume alone,