

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