

supply logistics. FY09 will be the third year of this project. The focus will be on transition to commercial production and final testing of stable nanofluids with improved cooling and lubrication properties while meeting all environmental requirements and making these processes commercially scalable.

Funds will be used for (1) transition production from development to commercial scale; (2) engine and vehicle dynamometer testing; and (3) field demonstrations. A dynamometer is a device that absorbs the power of an engine in the absence of a vehicle to move. The test engine to be used is the new production engine for the HMMWV that has been the engine of choice for that vehicle for the past several years. A test cell is a physical container or room that is properly outfitted for housing an engine-dynamometer combination for controlled and safe operations. Field testing of the nanofluids will occur through use of the HMMWV vehicle with the Optimizer 6500 Turbo-Diesel engine under extreme arctic and desert conditions.

Military vehicles are designed to meet exceedingly strict and arduous cooling, lubrication and overall performance requirements. One of the goals of the Tank Automotive Command is to increase the performance and durability of engines, power trains and their component parts to support Army transformation in the areas of system mobility, durability, reliability and survivability and may ultimately serve to reduce the logistics cost burden for the Objective Force.

Requesting Member: Congressman GEOFF DAVIS.

Bill Number: S. 3001.

Account: Operations & Maintenance, Air Force.

Legal Name of Requesting Entity: TIER1 Performance Solutions, LLC.

Address of Requesting Entity: 6 East 5th Street, Suite 400, Covington, KY 41011.

Description of Request: Appropriate \$1,600,000 for the Engineering Training and Knowledge Preservation System (ETKPS). The Air Force is facing significant turnover in its senior technical personnel. The Air Force Materiel Command (AFMC) could lose as many as sixty percent of its top engineers over the next three to five years.

Preserving the knowledge base is essential to AFMC and will be a massive undertaking requiring processes and tools to capture operational, technical, and critical thinking knowledge. Integrating the ability to capture, store, align, and transfer knowledge to the next generation workforce through a single, secure Web-based knowledge and training portal is necessary. Functionality of this solution must include the ability to track an individual's skills across competencies throughout his/her career; evaluate all existing training and compare the cost-benefits of competing training approaches; allow experienced personnel to easily create new training and knowledge content in accordance with pre-defined standards; plug into existing defined competencies and skill requirements and capture knowledge from subject-matter-experts to address these; link novices to experts in real-time through a virtual Web Center; categorize, organize and search all knowledge and information across the enterprise; deliver assessments to determine skill proficiencies; deliver information in a variety of ways—through distance learning, on-line reference systems, technical manuals,

job aids, mobile devices and other tools. FY 09 will be year four of this ongoing project.

Funds will be used for (1) requirements analysis; (2) functional design; (3) enhanced feature development; (4) USAF system integration; (5) user acceptance testing; and (6) USAF selected site development. Requirements analysis is an ongoing rigorous process to ensure the product meets the very specific needs of the Air Force Materiel Command (AFMC). Functional design results in a document used to inform and gain agreement that what is being developed will satisfy the AFMC user requirements. Enhanced feature development results in a prototype developed per the functional design which is presented to AFMC for testing and feedback. USAF system integration establishes proper interfaces between the ETKPS system and existing Air Force IT systems. User acceptance testing is used to evaluate the quality and usability of the product. USAF selected site development will result in the deployment of ETKPS to six Air Force bases, ensuring consistency across all bases.

These system capabilities will enable AFMC to organize and align information to support ongoing training and development of its total workforce. Funding for this effort is critical to AFMC for maximizing the effectiveness and efficiency of retaining existing knowledge capital and for building effective training programs that support the development of new personnel.

#### EARMARK DECLARATION

#### HON. JOHN M. McHUGH

OF NEW YORK

IN THE HOUSE OF REPRESENTATIVES

*Wednesday, September 24, 2008*

Mr. McHUGH. Madam Speaker, I submit the following:

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: S. 3001.

Account: Defense Health Program (DHP).

Legal Name of Requesting Entity: Fort Drum Regional Health Planning Organization.

Address of Requesting Entity: 120 Washington Street, Suite 302, Watertown, New York 13601.

Provide an earmark of \$640K for the Fort Drum Regional Health Planning Organization (FDRHO).

The funding will enable the organization, as part of the pilot program reauthorized and expanded in P.L. 110–181, to hire the necessary staff and conduct the required assessments.

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: H.R. 2638.

Account: RDT&E, Navy.

Legal Name of Requesting Entity: Trudeau Institute.

Address of Requesting Entity: 154 Algonquin Ave., Saranac Lake, New York 12983.

Provide an earmark of \$1.6 million for U.S. Navy Pandemic Influenza Vaccine Program. The funding will support the acceleration of studies of pandemic influenza vaccine research by developing and incorporating the use of bioinformatics (the use of techniques including mathematics, informatics, statistics) to solve biological problems associated with

pandemic influenza vaccine and related issues.

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: H.R. 2638.

Account: RDT&E, Army.

Legal Name of Requesting Entity: Clarkson University.

Address of Requesting Entity: 8 Clarkson Avenue, Potsdam, New York 13699.

Provide an earmark of \$1.6 million for nanostructured materials for Photovoltaic Applications. On a digital battlefield, scientific and technological superiority in land warfighting capability places a high premium on reliable and mobile communications systems. Lead acid batteries and diesel generators must yield photovoltaic (PV or solar cells) systems. Commercial and military efforts to achieve orders of magnitude increases in photovoltaic (PV or solar cells) device efficiency and decreases in cost have not been successful to date. This research project will develop novel PV technology (such as antireflective, antifouling, and self-cleaning coatings for the solar cell applications) that will increase efficiency and reliability.

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: H.R. 2638.

Account: RDT&E, Army.

Legal Name of Requesting Entity: State University of New York at Plattsburgh.

Address of Requesting Entity: 101 Broad Street, Kehoe 815, Plattsburgh, New York 12901.

Provide an earmark of \$1.280 million to study the use of drugs to reduce hearing loss following acute acoustic trauma. The project will study the viability of using pharmacologic agents to reduce the effects on hearing of an acute acoustic trauma such as that produced by blast exposure. SUNY Plattsburgh's Auditory Research Laboratory is one of the few laboratories in the U.S. dedicated to this type of research. Acute blast exposure is a serious problem in current military operations, resulting in disability status for a large number of personnel. This project will provide an objective look at drugs that may reduce hearing loss.

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: H.R. 2638.

Account: RDT&E, Army, Medical Advanced Technology.

Legal Name of Requesting Entity: WelchAllyn.

Address of Requesting Entity: 4341 State Street Road, Skaneateles Falls, New York 13152.

Provide an earmark of \$2.0 million for the Personal Status Monitor (Nightengale). The funding will enable WelchAllyn to further develop its smart sensing technologies which provide on-body sensing of physiologic parameters that can be relayed to a remote server by means of a series of wireless relay devices for notification in the case of a critical or life-threatening event. The research and development will provide DOD with mobile, wireless monitoring of patients and other personnel who would benefit from being monitored where traditional monitoring has not typically been used given high cost and weight of devices.

Requesting Member: Congressman JOHN M. McHUGH.

Bill Number: H.R. 2638.

Account: RDT&E, Army.

Legal Name of Requesting Entity: Syracuse Research Corporation.

Address of Requesting Entity: 7502 Round Pond Road, North Syracuse, New York 13212.

Provide an earmark of \$3.2 million for the Foliage Penetrating, Reconnaissance, Surveillance, Tracking and Engagement Radar (FORESTER). FORESTER is an airborne sensor system that provides standoff and persistent wide-area surveillance of dismounted troops and vehicles moving through foliage. Designed and developed to fly on the A160 Hummingbird unmanned helicopter, FORESTER is a one-of-a-kind technology providing the warfighter with all-weather, day-night target detection and tracking capability in real-time. The request will provide the funding necessary to transition FORESTER to the user community and apply the technology to additional platforms.

#### EARMARK DECLARATION

### HON. TIM MURPHY

OF PENNSYLVANIA

IN THE HOUSE OF REPRESENTATIVES

*Wednesday, September 24, 2008*

Mr. TIM MURPHY of Pennsylvania. 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. 2638, Consolidated Security, Disaster Assistance, and Continuing Appropriations Act of 2009:

Requesting Member: Congressman TIM MURPHY.

Bill Number: S. 3001.

Account: Department of Defense, Navy, RDT&E, Shipboard System Component Account.

Legal Name of Requesting Entity: Converteam Inc.

Address of Requesting Entity: 610 Epsilon Drive, Pittsburgh, PA 15238.

Description of Request: Appropriation in the amount of \$2 million for Navy Integrated Power System Converter. The Navy initiated the Integrated Power System (IPS) program in 1995 to develop all-electric power systems that can be used in any class of ship; CVN, DDG-1000, CGX and SSN. IPS provides capacity for future combat system upgrades, improved ship survivability, greater flexibility in ship design, and reduced operating and support costs. The Main Propulsion Converters (MPC) form the heart of the IPS concept, and with this development, will provide significant advantages in size, weight and cost reduction across all IPS equipment. In addition, this development will significantly simplify the insertion of advanced weapons. This is an ongoing project with the U.S. Navy.

Requesting Member: Congressman TIM MURPHY.

Bill Number: S. 3001.

Account: Department of Defense, Army, RDT&E, Military Engineering Advanced Technology Account.

Legal Name of Requesting Entity: PPG Industries.

Address of Requesting Entity: 440 College Park Dr., Monroeville, PA 15146.

Description of Request: Appropriation in the amount of \$1 million for Nanotechnology for

Potable Water and Waste Treatment. PPG Industries proposes to use its nanotechnology to water filtration technologies. One such technology applicable to water filtration is nanofiber mats which may be produced in high volumes through an electromechanical spinning technique developed by PPG. These nanofiber mats can be functionalized to sequester water contaminants quickly and efficiently. Additionally, fiberglass can be modified with nano-materials and then films to mitigate waterborne contaminants. The program will address both conventional water treatment and water security needs in a military field environment and the public sector.

Requesting Member: Congressman TIM MURPHY.

Bill Number: S. 3001.

Account: Department of Defense, Navy, RDT&E, Force Protection Advanced Technology Account.

Legal Name of Requesting Entity: Curtiss-Wright.

Address of Requesting Entity: 291 Westec Drive, Mt Pleasant, PA 15666.

Description of Request: Appropriation in the amount of \$1 million for Navy High Power Density Motor Drive. Funding will complete drive design and initiate prototype assembly of High Power Density Motor Drive for Naval Submarine and Surface Ship Applications to meet the Navy's need for a motor drive that is power dense, lightweight, with low distortion and noise, high efficiency and high reliability as a companion to the Extreme Torque Motor (XTM). The drive is the element which provides proper energy to the motor, allowing for variable speed and direction. Advances in control techniques and the combination of several power electronics technologies will enable the development of a drive system design that meets all of the Navy's requirements. The motor concept is based on Harmonically Neutralized Frequency Converter (HNFC) technology, a combination of proven power conversion techniques that have been used for several decades in icebreaker and cruise ship propulsion systems. Integration of this drive technology with XTM motor development offer will enable the design of a complete Navy "system", optimized for high demands of propulsion. This is an ongoing project of the U.S. Navy.

Requesting Member: Congressman TIM MURPHY.

Bill Number: S. 3001.

Account: Department of Defense, Army, RDT&E, Munitions Standardization, Effectiveness and Safety Account.

Legal Name of Requesting Entity: National Center for Defense Manufacturing & Machining.

Address of Requesting Entity: 1600 Technology Way, Latrobe, PA 15650.

Description of Request: Appropriation in the amount of \$1 million for Virtual Opportunity and Information Center (VOICe). The National Center for Defense Manufacturing & Machining (NCDMM) has been working with private industry under congressional support to produce a Virtual Opportunity and Information Center (VOICe) that matches the requirements of DoD and original equipment manufacturers to the capabilities of small to medium manufacturers in Western Pennsylvania. Many of these contracts require state-of-the-art machining tools and techniques in order for the subcontractor to be successful. To assure

small manufacturers bid successfully and fulfill all contract requirements, the NCDMM will work in partnership with industry to build a Virtual Opportunity and Information Center (VOICe). VOICe will match opportunities with job shops, as well as supply best practices and requisite knowledge to solutions in high-speed machining, new machining techniques, use of advanced measuring and testing equipment and protocol, work holding, five-axis machining and other best practices.

Requesting Member: Congressman TIM MURPHY.

Bill Number: S. 3001.

Account: Department of Defense, Army, RDT&E, Weapons and Munitions Advanced Technology Account.

Legal Name of Requesting Entity: Kennametal.

Address of Requesting Entity: 1600 Technology Way, Latrobe, PA 15650.

Description of Request: Appropriation in the amount of \$1.6 million for Advanced Medium Caliber Tungsten Penetrators. Funding is needed to continue development and conduct testing of advanced Tungsten alloys that have the promise to deliver superior performance compared to Depleted Uranium, and Tungsten/Nickel/Cobalt alloys. Funding for this project will continue a multi-phased program that investigates several Tungsten alloy candidates and consolidation techniques. After laboratory characterization, multiple iterations of ballistic testing in a variety of weapons systems are planned. Successful completion of this phase will allow the Army to investigate the use of new Tungsten penetrators in current and FCS weapons systems. The effort will involve the U.S. Army Research Laboratory, Aberdeen, Maryland, and the U.S. Army ARDEC at Picatinny Arsenal, to ensure programs are properly targeted and result in new technology acquisition.

#### UNITED STATES FIRE ADMINISTRATION REAUTHORIZATION ACT OF 2008

SPEECH OF

### HON. DAVID WU

OF OREGON

IN THE HOUSE OF REPRESENTATIVES

*Wednesday, September 24, 2008*

Mr. WU. Mr. Speaker, I am proud to support this legislation to reauthorize the United States Fire Administration (USFA). I want to congratulate Mr. MITCHELL from Arizona for his work on this issue and for being instrumental in the passage of the House version of this bill earlier this year. I also want to commend Chairman Gordon for his leadership of the Committee on Science and Technology throughout the 110th Congress.

USFA was formed by Congress in 1974 in response to a report that found there were over 12,000 deaths annually due to fire in this country and over 300,000 fire injuries each year. Through the hard work of USFA and others, we have been fortunate to see that number drop dramatically.

We are now a much safer nation, thanks to improved awareness of fire safety practices, increased use of smoke detectors and sprinklers, and other fire safety measures. Still, approximately 3,000 people die each year in fires and 10,000 more are injured. We also