

3D bias woven composite structures for aerospace applications.

Cerus Corporation, Bala Cynwd, PA—\$3 million requested for blood safety and decontamination technology development.

Morphotek, Exton PA—\$1 million for potent human monoclonal antibodies against BoNT A, B and E suited for mass production and treatment of large populations.

Rajant, Malvern PA—\$3 million for portable mobile emergency broadband systems.

#### EARMARK DECLARATION

### HON. TED POE

OF TEXAS

IN THE HOUSE OF REPRESENTATIVES

*Thursday, July 30, 2009*

Mr. POE of Texas. 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: Congressman TED POE

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

Account: RDTE, A

Legal Name of Requesting Entity: Lamar University

Address of Requesting Entity: 4400 MLK Boulevard, P.O. Box 10119, Beaumont, TX 77710

Description of Request: I have secured \$4,000,000 in funding for Lamar University's Advanced Fuel Cell project to continue to develop an efficient and clean advanced renewable energy source to meet urgent U.S. Army space and missile defense battlefield requirements. The Advanced Fuel Cell project continues to develop, test and validate advanced fuel cell technologies necessary to enable lightweight, power efficient, environmentally clean, and cost-effective renewable energy technology and products for Army space and missile defense systems including: sensors, radars, weapons, and communications. Project could also be used in border, port, and chemical facility surveillance.

#### EARMARK DECLARATION

### HON. BOB INGLIS

OF SOUTH CAROLINA

IN THE HOUSE OF REPRESENTATIVES

*Thursday, July 30, 2009*

Mr. INGLIS. Madam Speaker, pursuant to the Republican leadership standards on earmarks, I am submitting the following information regarding an earmark I received as part of HR 3326, Department of Defense Appropriations Act, 2010.

Requesting Member: Congressman BOB INGLIS

Bill Number: HR 3326, Department of Defense Appropriations Act, 2010

Account: 17 DARPA 0602715E Materials and Biological Technology

Legal Name of Requesting Entity: Milliken and Company

Address of Requesting Entity: 920 Milliken Road, Spartanburg, South Carolina 29304

Description of Request: This project continues work that began in July 2007 under

Army Research Laboratory (ARL) Cooperative Agreement #W911NF-07-2-0074. An annual program plan was mutually developed for three years with the Cooperative Agreement Manager at the onset of the award. The scope of the effort will be to leverage the past work to fabricate a full-scale molded part that is suitable for use on an existing tactical vehicle platform. Milliken will work with ARL and a designated U.S. DOD prime vehicle contractor to select, fabricate and test the specific component, such as a hood, quarter panel or underbody hull component. The amount is \$2,800,000 and it would go to Milliken and Company.

#### EARMARK DECLARATION

### HON. TIMOTHY V. JOHNSON

OF ILLINOIS

IN THE HOUSE OF REPRESENTATIVES

*Thursday, July 30, 2009*

Mr. JOHNSON of Illinois. Madam Speaker, pursuant to the Republican Leadership standards on project funding, I am submitting the following information regarding project funding I requested as part of Fiscal Year 2010 Defense Appropriations bill—H. R. 3326:

Requesting Member: TIMOTHY V. JOHNSON  
Bill Number: H.R. 3326—Fiscal Year 2010 Defense Appropriations bill

Account: Research, Development, Test and Evaluation—Navy

Legal Name of Requesting Entity: University of Illinois

Address of Requesting Entity: College of Engineering, University of Illinois at Urbana-Champaign, 1308 West Main Street, Urbana, Illinois 61801

Description of Request: \$1,500,000 for the University of Illinois to establish the Center for Assured Critical Application and Infrastructure Security (CACAIS) which will address the development of trust validation tools for critical computer infrastructures of particular importance to the nation, namely defense applications, financial systems, and electrical power, to ensure public confidence in these systems. It is my understanding that of this amount \$1,000,000 is for equipment, facilities, and laboratory costs; \$375,000 for personnel; \$75,000 for technology transfer; and \$50,000 for computer costs.

Requesting Member: TIMOTHY V. JOHNSON  
Bill Number: H.R. 3326—Fiscal Year 2010 Defense Appropriations bill

Account: Research, Development, Test and Evaluation—Army

Legal Name of Requesting Entity: U.S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory

Address of Requesting Entity: 2902 Newmark Drive, Champaign, Illinois 61826

Description of Request: \$2,500,000 for the U.S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory to field validate large-scale Zinc-Flow electrical energy storage to improve the energy security, fossil-fuel consumption and carbon-footprint of our military bases. It is my understanding that of this amount \$950,000 is for energy storage systems; \$400,000 is for equipment, installation, test, and data acquisition; \$975,000 for personnel; \$175,000 for administration.

#### EARMARK DECLARATION

### HON. HOWARD COBLE

OF NORTH CAROLINA

IN THE HOUSE OF REPRESENTATIVES

*Thursday July 30, 2009*

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

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Army RDTE Ballistics Technology account (PE 0602618A)

Legal Name of Requesting Entity: PPG Industries

Address of Requesting Entity: P.O. Box 949, Lexington, NC 27293

Description of Request: The bill provides \$2,000,000 for Advanced Composite Armor for Force Protection at PPG Industries (PPG). PPG recently discovered new resin and fiberglass technologies that can provide both performance improvements and weight savings in composite solutions for ballistic protection. Advanced composite materials will be developed and tailored to defeat evolving ballistic and Improvised Explosive Devices (IED) fragmentation threats. The research program will develop both non-transparent and transparent solutions. As PPG has begun initial research on this project, a variety of composite designs have demonstrated success in laboratory testing. Solutions will utilize new high strength glass fibers and will resist a wide range of threats, including ballistic, blast and IED. Further, the project directly supports research objectives at PPG facilities in Lexington, North Carolina, to develop composite ballistic panel solutions designed to meet specific identified threat levels. As threats continue to evolve, advanced soldier and asset protective material technologies are crucial to the U.S. Army. Technologies such as PPG's fiberglass composite research are of national interest as we seek better protection for our soldiers in the field today and look ahead to our defense needs to come.

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Air Force RDTE Basic Research Materials account (PE 0602102F)

Legal Name of Requesting Entity: RF Micro Devices

Address of Requesting Entity: 7628 Thorn-dike Road, Greensboro, NC 27409

Description of Request: The bill provides \$2,000,000 for the Gallium Nitride Microelectronics and Materials project at RF Micro Devices. Gallium Nitride-based microelectronics is the next generation of semiconductor technology. It is of critical importance to the development of many advanced defense systems, in particular radar, communications and electronic warfare systems. This technology also has the potential to open up entirely new areas of commercial wireless infrastructure applications. This Navy research project focuses on the development of advanced GaN RF power devices with enhanced performance and reliability. Building on prior research and development, this request will enable the RFMD Defense and Power Business Unit to

accelerate development and adoption of RFMD GaN technology. The Defense and Power Business Unit was created specifically to tailor RFMD technology to serve the needs of the defense community.

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Air Force RDTE Advanced Materials for Weapons Systems account (PE 0603112F)

Legal Name of Requesting Entity: Timken Company

Address of Requesting Entity: GNE-01, 1835 Dueber Avenue, S.W., P.O. Box 6928, Canton, Ohio 44706

Description of Request: The bill provides \$1,000,000 for the Hybrid Bearing project at Timken Company. Standard aerospace bearings are not adequate for the demands of the Joint Strike Fighter engine, or many other engines. As a result, the Air Force has been working with industry to develop an improved bearing that is tough, corrosion resistant and can tolerate the high speeds and temperatures of the expanding mission requirements. This project will test various corrosion resistant steel, including CSS-42L, for use in the bearing, as well as the introduction of new ball and retainer materials in the final bearing design (such as silicon nitride balls, and a light weight carbon-carbon composite material for the retainer material). The hybrid bearing technology, which includes a variety of material and coating technologies, is being incorporated into the Joint Strike Fighter engine, and other platforms.

The Air Force has been working on this project since 2003 with the Timken Company. From prior year funding, 80% of the technology requirements set forth by the Air Force to bring the project to the point of final testing/ placement into weapon platforms has been completed, including full engine tests. If fully funded, the project should be completed in calendar 2010.

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Navy RDTE Integrated Surveillance Systems account (PE 0204311N)

Legal Name of Requesting Entity: General Dynamics Advanced Information Systems—Greensboro

Address of Requesting Entity: 5440 Millstream Road, McLeansville, NC 27301

Description of Request: The bill provides \$2,000,000 for the Autonomous Anti-Submarine Warfare Vertical Beam Array Sonar project at General Dynamics. The Autonomous Anti-Submarine Vertical Beam Array (VBA) is a stationary, acoustic array system that helps protect surface ships and submarines against submarine-launched torpedoes and anti-ship cruise missiles by detecting and reporting quiet diesel and nuclear powered submarines. The VBA Sonar is deployable from Trident guided missile submarines (SSGN), the Littoral Combat Ship (LCS) and other surface ships. The VBA Sonar can be used to protect an established Sea Base or Global Fleet Station in deep water or in the littorals. Once positioned, it transmits submarine contact information back to the deploying platform's combat system for classification, localization, tracking and engagement.

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Navy Research, Development, Test and Evaluation (RDTE) RF Systems Applied Research account (PE 0602271N)

Legal Name of Requesting Entity: RF Micro Devices

Address of Requesting Entity: 7628 Thorn-dike Road, Greensboro, NC 27409

Description of Request: The bill provides \$2,000,000 for the Gallium Nitride (GaN) Power Technology project at RF Micro Devices. Gallium Nitride-based microelectronics is the next generation of semiconductor technology. It is of critical importance to the development of many advanced defense systems, in particular radar, communications and electronic warfare systems. This technology also has the potential to open up entirely new areas of commercial wireless infrastructure applications. This Navy research project focuses on the development of advanced GaN RF power devices with enhanced performance and reliability. Building on the prior work on the project, this request addresses the challenges in using this key technology to implement solutions for the Navy's advanced RF systems needs.

RFMD Defense and Power Business Unit will be the recipient of the funding and use the funds to accelerate development and adoption of RFMD GaN technology. The Defense and Power Business Unit was created specifically to tailor RFMD technology to serve the needs of the defense community. The project will be led from the lead design and fabrication facility in North Carolina.

Requesting Member: Congressman HOWARD COBLE

Bill Number: H.R. 3326

Account: Marine Corps Operations and Maintenance Operational Forces account (1A1A)

Legal Name of Requesting Entity: Saab Barracuda USA, LLC

Address of Requesting Entity: 608 East McNeill Street, Lillington, NC 27546

Description of Request: The bill provides \$3,500,000 for the Ultra Lightweight Camouflage Net System (ULCANS) at Saab Barracuda USA, LLC. ULCANS is the next generation camouflage system. ULCANS increases survivability against advanced multi-spectral visual, infrared (IR), and radar (RF) threats, providing reduced probability of visual detection, enhanced thermal and radar signature suppression, and improved background matching. ULCANS "Marine friendly" features include a more durable and snag-resistance design. The funding requested would provide ULCANS for one Marine Expeditionary Force.

The ULCANS will greatly enhance the ability for combat troops and support units to conceal military target signatures of weapons, vehicles and semi-permanent positions in situations where the natural cover or concealment may be absent or inadequate. ULCANS can also be used as an aid in the concealment of permanent prominent objects in a fixed pattern or array, which present obvious targets. The United States Marine Corps has an Unfunded Requirement (UFR) for ULCANS. Saab Barracuda, LLC, in Lillington, North Carolina, is the industry leader in development, testing and production of multi-spectral camouflage and heat-reducing systems. The company produces 3,500-plus ULCANS systems per month. A supplier in my district, Glen Raven, provides manufacturing support for this product.

## EARMARK DECLARATION

**HON. JOHN R. CARTER**

OF TEXAS

IN THE HOUSE OF REPRESENTATIVES

Thursday, July 30, 2009

Mr. CARTER. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information regarding earmarks I received as part of the Department of Defense Appropriations Act for Fiscal Year 2010.

Project Name: Fort Hood Training Lands Restoration and Maintenance

Account: Operation and Maintenance, Army Project Recipient and Address: Fort Hood, TX U.S. Army Garrison, Fort Hood, Bldg. 1001, Rm W321, Fort Hood, TX 75544

Amount Provided: \$2,500,000

Project Description: Dedicated resources are needed to rehabilitate Fort Hood lands degraded by over 60 years of training with tanks and other military vehicles. Substantial rehabilitation can be achieved over the next five years with an integrated program that reduces soil erosion and compaction, increases desirable vegetation, supports woody vegetation management, and provides appropriate tank trails, stream-crossings, and hilltop access points for tactical vehicles. Texas AgriLife Research will work with Fort Hood Integrated Training Area Management (ITAM) and other collaborators to plan, implement, execute, and verify the effectiveness of these rehabilitation efforts.

Benefit to Taxpayers: The project improves training land for Fort Hood soldiers using research proven reclamation practices. The practices installed through the project have saved both time and money, while achieving training area restoration. The local economy also benefitted as local contractors were employed for soil ripping, gully plug construction, and other work.

Spending Plan: \$700,000 is for brush clearing and endangered species maintenance programs. Of the remainder, approximately 90% goes to Fort Hood-ITAM programs for implementation of training lands restoration validated practices and 10% goes to Texas AgriLife Research for assessment of these programs and development of new practices.

Project Name: Techniques to Manage Non-compressible Hemorrhage Following Combat Injury

Account: RDT&E Army

Project Recipient and Address: National Trauma Institute, 16500 San Pedro Avenue, Suite 350, San Antonio, TX 78232

Amount Provided: \$2,500,000

Project Description: Traumatic injury is a nationwide problem with severe consequences for our military and civilians. Noncompressible hemorrhage from injuries to the torso is the leading cause of potentially survivable deaths of American troops and its mitigation is the highest priority of U.S. military trauma surgeons and researchers. NTI's goal is to develop simple, rapid and field-expedient techniques for non-surgeons to stop truncal hemorrhage. To secure advances in this field will require additional federal funding. Currently, trauma research is significantly underfunded compared to illnesses which do not cause nearly the same level of mortality as trauma.

Benefit to Taxpayers: Increasing trauma research is likely to lead to the reduction of mortality and complications from noncompressible