

## EARMARK DISCLOSURE

**HON. MIKE FERGUSON**

OF NEW JERSEY

IN THE HOUSE OF REPRESENTATIVES

*Wednesday, September 24, 2008*

Mr. FERGUSON. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information for publication in the CONGRESSIONAL RECORD regarding earmarks I received as part of H.R. 2638, the Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009:

1. Micro Electrical Mechanical Systems (MEMS) Technology and Plastic Armor.

Applications Account: Army Research, Development, Test and Evaluation.

Legal Name of Requesting Entity: Picatinny Arsenal.

Address of Requesting Entity: Picatinny Arsenal, Picatinny, NJ 07806-5000.

Description of Request: Funding in the amount of \$1.6 million will be used by Picatinny Arsenal in collaboration with Bell Laboratories and the New Jersey Nanotechnology Consortium for research and development of body armor materials using nano technologies, Micro Electrical Mechanical Systems (MEMS) and new plastic armor composites. The development of MEMS technology focuses on lightweight, low power technologies that enable the implementation of new capabilities in current armament and equipment as well as next generation solutions for the war fighter.

2. Stratitice Dermal Matrix Research.

Account: Army Research, Development, Test and Evaluation.

Legal Name of Requesting Entity: LifeCell Corporation.

Address of Requesting Entity: One Millenium Way, Branchburg, New Jersey 08876-3876.

Description of Request: Funding in the amount of \$2.4 million will be used for research and development of skin graft technology, with the goal of developing an off-the-shelf transplantable graft from porcine tissue for combat casualties with full-thickness burns and other skin and dermal deficits. The project is a 3-year research and development program seeking to evaluate the potential for grafting of the scaffold onto full-thickness dermal wounds with full integration and regeneration of intact skin. This scaffold will provide a platform technology for development of other products for repair of tissue loss, meeting significant unmet medical needs in both military and civilian trauma.

## EARMARK DECLARATION

**HON. JOE KNOLLENBERG**

OF MICHIGAN

IN THE HOUSE OF REPRESENTATIVES

*Wednesday, September 24, 2008*

Mr. KNOLLENBERG. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information for publication regarding earmarks I received as part of H.R. 2638, the Consolidated Security, Disaster Assistance, and Continuing Appropriations Act for Fiscal Year 2009. The information provided for each ear-

mark consists of the recipient, name of the project, account, funding level, and the justification for the use of taxpayer dollars.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 33.

Name of Earmark and Amount Listed in the Report: Diminishing Manufacturing Sources and Material Shortages Case Resolution Program—\$2.4 million.

Legal Name and Address of Receiving Entity: Automation Alley, 2675 Bellingham, Troy, Michigan 48083.

Earmark Description: The program will significantly reduce the Tank-Automotive and Armaments Life Cycle Management Command's (TACOM LCMC) total ownership costs for weapons systems sustainment by using a center for directing the researching of diminishing manufacturing sources and material shortages (DMSMS) cases affecting TACOM LCMC, designing engineering solutions for cases, and testing alternatives for obsolete parts and higher-level assemblies. Automation Alley will research and develop a new process of alleviating the DMSMS problem by providing an efficient location of companies willing and able to re-engineer, test, evaluate, and manufacture obsolete components and thereby reduce cost to TACOM LCMC who must resolve these issues. This work will be managed daily in the form of an off-base industry outreach office with Automation Alley engineers and members of the TARDEC DMSMS team interacting with industry on a five-days-a-week basis for approximately five years based on funding levels. The funding will be used for engineering personnel, engineering research, and operations and overhead.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 33.

Name of Earmark and Amount Listed in the Report: End-to-End Vehicle Survivability Technology—\$1.6 million.

Legal Name and Address of Receiving Entity: Badenoch, LLC., 1040 East Maple Road, Suite 101, Birmingham, Michigan 48009.

Earmark Description: The focus of the program is to build a lightweight, survivable tactical wheeled vehicle demonstrator showcasing advanced materials and manufacturing techniques that will enable low-cost, high volume production of future systems. In addition to addressing all seven forensic causes of death and serious injury, the demonstrator will be difficult to see or hear, have a low acquisition signature, and be highly maneuverable. The vehicle will comprehensively address the challenge of tactical vehicle survivability. Non-traditional techniques and personnel from the automotive and motor racing world will be employed to optimize solutions to this complex problem. Common threat modalities will be evaluated along the end-to-end chain from the energetic event to the human physiology using best practices in modeling and physical testing. Thus, the program will leverage the best techniques available and establish a generalized, comprehensive, durable methodology for evaluating vehicle survivability. The funding will be used for engineers and material and other development costs.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 30.

Name of Earmark and Amount Listed in the Report: National Oncogenomics and Molecular Imaging Center—\$3.2 million.

Legal Name and Address of Receiving Entity: Barbara Ann Karmanos Cancer Institute, 4100 John R., Detroit, Michigan 48201.

Earmark Description: This project will develop technology to diagnose human cancer by defining oncogene signatures which characterize cancers in patients. Karmanos Cancer Institute will provide imaging technology capable of greatly improving detection of genes that cause cancer and measure treatment response. The goal of this collaborative research under the U.S. Army Medical Research and Material Command is to develop and implement the technology to perform sophisticated molecular-etiological diagnostics in human cancer tissue, and to use that information to identify new cancer targets and make far better predictions regarding a cancer patient's response to molecular targeted therapies. The funding will be used for genomics equipment, model costs, computing and bioinformatic, salaries for lead scientists and research support personnel, patient imaging equipment, and animal imaging equipment.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 33.

Name of Earmark and Amount Listed in the Report: Hydraulic Hybrid Vehicles (HHV) for the Tactical Wheeled Fleet—\$800,000.

Legal Name and Address of Receiving Entity: Bosch Rexroth Corporation, 2730 Research Drive, Rochester Hills, Michigan 48309.

Earmark Description: This program will significantly reduce target vehicle consumption with consequent cost savings and reduction logistic footprint. Reduction in brake wear will reduce maintenance, replacement costs and vehicle downtime. Improved acceleration will improve performance, mobility and load capacity, particularly when TWVs are fitted with improved crew protection. Concept demonstration tests indicate fuel savings up to 60 percent can be achieved. Targeted end result is implementation into full range of TWV including JLTV variants. The funding will be used for design and development of a hybrid system, engineering and labor, operations and overhead, materials including hybrid system hardware, and testing.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Navy RDTE Line 5.

Name of Earmark and Amount Listed in the Report: Standoff Explosive Detection System (SEDS)—\$1.6 million.

Legal Name and Address of Receiving Entity: BOSSdev, Inc. 700 Tower Drive, Suite 500, Troy, Michigan 48098.

Earmark Description: This program will support a U.S. Navy/Marine Corps research and development project to develop a mobile, vehicle-mounted, improvised explosive device (IED) detector that will be able to quickly and safely detect the explosives in a buried IED from a standoff distance of 20 meters or more in front of a moving vehicle. This project, called the Standoff Explosives Detection System (SEDS), is based on a proven sensing technology known as Thermal Neutron Activation Analysis. In summary, the system will utilize a scanning thermal neutron beam to stimulate the nitrogen in buried or concealed explosives causing the nitrogen to emit gamma

rays. In turn, the gamma rays emitted from the explosives will be detected by a gamma ray telescope that is incorporated into the detector system. The SEDS will also include advanced safety technologies such as smart video to protect bystanders and U.S. military personnel from effects of the neutron beam.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Navy RDTE Line 16.

Name of Earmark and Amount Listed in the Report: Mobile Manufacturing and Repair Cell/Engineering Education Outreach Program—\$2.4 million.

Legal Name and Address of Receiving Entity: Focus: HOPE, 1355 Oakman Blvd., Detroit, MI 48238.

Earmark Description: The purpose of this program is to attract, train and educate technicians and engineers capable of deploying new critical technologies in support of Navy forces. The funding will be used for research, recruitment, curriculum development, demonstrations, outreach, and administrative costs.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 28.

Name of Earmark and Amount Listed in the Report: Nanofabricated Bioartificial Kidney, Pancreas and Liver—\$3.2 million.

Legal Name and Address of Receiving Entity: Innovative BioTherapies, 401 W. Morgan Road, Ann Arbor, Michigan 48108.

Earmark Description: There is a need within the combat theater to provide kidney replacement treatment to casualties that are unstable for transit out of the combat area. Recent technology developed at the University of Michigan and Innovative BioTherapies, Inc. (IBT, Ann Arbor, MI) is miniaturizing renal cell therapy devices which have been demonstrated in Phase II clinical studies to reduce mortality of intensive care unit patients with acute renal failure by 50 percent. This program will lead to a completely portable bioartificial kidney for complete kidney replacement therapy in military field hospitals and fixed-wing aircraft for the treatment of severe combat casualties. This program will also develop miniaturized liver cell devices for the acute and chronic treatment of liver failure with bioartificial liver devices. The funding will be used for research operations and medical equipment.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 33.

Name of Earmark and Amount Listed in the Report: Plug-In Hybrid Vehicle Electrification Program—\$3.2 million.

Legal Name and Address of Receiving Entity: NextEnergy Center, 461 Burroughs, Detroit, Michigan 48202.

Earmark Description: The NextEnergy Center will work with the U.S. Army National Automotive Center to develop and deploy Smart Plug-In Hybrid Vehicle (PHEV) technology that provides new capability to manage power distribution and reduce Department of Defense ("DoD") fuel consumption using both conventional generation, renewable generation, and vehicles with exportable electric power. A smart PHEV will supplement electrical power generation and reduce emissions by the vehicle fleet. Funding will support initial develop-

ment and testing of two systems, components and infrastructure, as well as demonstrate PHEV capability for vehicle to building/grid communication. The funding will be used for laboratory expenses, testing and reports, prototype (Vehicles and systems), labor and overhead, and equipment and material.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 14.

Name of Earmark and Amount Listed in the Report: Globally Accessible Manufacturing and Maintenance Activity—\$1.6 million.

Legal Name and Address of Receiving Entity: POM Group, Inc., 2350 Pontiac Road, Auburn Hills, Michigan 48326.

Earmark Description: The program entitled "Globally Accessible Manufacturing and Maintenance Activity (GAMMA)" will develop rapid, precision Direct Metal Deposition (DMD) technology, combined with current materials removal technology, using the same (single) laser platform which will provide a quantum leap in force readiness and significantly impact the U.S. economy by greatly reducing the time of making complex, 3-D shaped components for dual-use applications. In addition, GAMMA will greatly enhance the currently fielded U.S. Army effort called the Mobile Parts Hospital (MPH) where modules are deployed to remote locations to fabricate metal parts on site from bar stock. Incorporation of the DMD technology would eliminate the need for the bar stock \$60 billion inventory. The funding will be used for design, factory testing, and validation practices.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 33.

Name of Earmark and Amount Listed in the Report: Light Weight Medical Evacuation Vehicle—\$1.6 million.

Legal Name and Address of Receiving Entity: Rae-Beck Automotive, 1200 W. Hamlin Road, Rochester Hills, Michigan 48309.

Earmark Description: The project will design and develop an internally transportable vehicle which provides a fully integrated medical support system designed to accommodate three-four litters to assist our troops. The vehicle will provide force protection capability, via armor, and/or supply add-on armor, which is currently a critical need. The vehicle will be engineered, built ready for testing within 12 months and answers the requirement document of Family of Internally Transportable Vehicles ORD. The medical variant vehicle will be suited for missions requiring speed, cover, concealment, and agility. The funding will be used for the construction and build of a full working demonstrator, engineering cost, and program management and administrative cost.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division C).

Account Information: Army RDTE Line 13.

Name of Earmark and Amount Listed in the Report: Condition Based Maintenance for Mission Assuredness for Ground Vehicles—\$2.4 million.

Legal Name and Address of Receiving Entity: Ricardo, Inc., 40000 Ricardo Drive, Van Buren Township, Michigan 48111.

Earmark Description: The program will develop computer co-simulation tools for computer testable "virtual" vehicle designs for opti-

mized ground vehicles. It will also provide military tools to optimize performance, using outputs for true computer based development of prognostics to predict mission success. This research will provide a wider range of "virtual tests" and optimize systems' interaction. Using developments from the co-simulation agenda, the development of a computer based on-board prognostics system will save the military billions of dollars by enabling condition based maintenance and being able to know if a vehicle can complete a definable mission successfully and safely. The funding will be used for simulation tools and computer based prognostics.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division E).

Account Information: Army, National Guard.

Name of Earmark and Amount Listed in the Report: Barracks Replacement Phase I, Camp Grayling—\$16.943 million.

Legal Name and Address of Receiving Entity: Michigan National Guard, Camp Grayling.

Earmark Description: The funding will replace outdated and substandard barracks. The soldier billeting areas of Camp Grayling were built in increments beginning in the 1950s. These facilities are substandard in terms of construction, function, efficiency, and space. The current facilities do not meet existing fire protection standards, have numerous safety violations and provide inadequate sleeping accommodations for deploying personnel.

Requesting Member: Representative JOE KNOLLENBERG (R-MI).

Bill Number: H.R. 2638 (Division E).

Account Information: Army, National Guard.

Name of Earmark and Amount Listed in the Report: Infantry Squad Battle Course, Camp Grayling—\$2 million.

Legal Name and Address of Receiving Entity: Michigan National Guard, Camp Grayling.

Earmark Description: Funding will be used for combat leaders to train and evaluate their unit in an outdoor squad tactical movement engagement scenario.

## EARMARK DECLARATION

### HON. KAY GRANGER

OF TEXAS

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Ms. GRANGER. Madam Speaker, consistent with the Republican Leadership's policy on earmarks, I submit the following justification for the project I received in the FY2009 Homeland Security Appropriations bill.

Project name (as it appears in the bill): Tarrant County, TX Pre-Disaster Mitigation

Amount received: \$1 million

Bill number: FY2009 Homeland Security Appropriations bill

Account: Pre-Disaster Mitigation

Legal name and address of entity receiving Earmark: Tarrant County, 100 E. Weatherford, Fort Worth, TX 76196

Description of how the money will be spent and why the use of federal taxpayer funding is justified: Tarrant County, TX, will use this funding to plan localized flood control and storm water management projects and will bring municipalities under its jurisdiction up to national standards. This flood control and storm water management work is very important for Tarrant County because the west fork