Description of Request: Provide $800,000 for the continued development of the Materials Application Research Center (MARC) at the University of Alabama at Birmingham. The U.S. military constantly faces the competing challenges of ever-changing threats, needs to control costs, needs for lighter weight, more durable, improved performance equipment, and needs to increase the protection of our troops. Technology solutions to these challenges are often slow in development and implementation. The Materials Applications Research Center (MARC) will provide the large scale laboratory facilities and operational environment to help assure timely development and transition of new materials and manufacturing technologies to our military. The results will provide military systems solutions for significantly improved performance, increased durability, and lower cost for both acquisition and life cycle. This funding will go towards the project's total budget of $1.5 million. Specifically within the budget, $755,938 is for personnel salaries and benefits, $85,000 is for permanent equipment, $17,820 is for travel, $222,277 is for other direct material and service costs, and $418,965 is for other indirect costs. This request is consistent with the intended and authorized purpose of the Department of the Army, Research, Development, Test and Evaluation, Missile Technology Account. The University of Alabama at Birmingham will meet or exceed all statutory requirements for matching funds where applicable.

Bill Number: H.R. 2638, the Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009

Account: Department of the Army, Research, Development, Test and Evaluation, Combat Vehicle and Automotive Advanced Technology Account

Legal Name of Requesting Entity: Auburn University

Address of Requesting Entity: 202 Samford Hall, Auburn, AL 36849

Description of Request: Provide $2.8 million to the U.S. Army Tank Automotive Research Development and Engineering Center/National Automotive Center (TARDEC/NAC) to complete research and development of a hydrocarbon catalytic reforming and cleaning system/methodology capable of taking high sulfur containing logistic fuels such as JP–8 and converting them on demand into high purity hydrogen for use in fuel cell powered APU's (auxiliary power units) and ground-based military vehicles. The technical focus of this program is the development and demonstration of logistical fuel processor-fuel cell combinations that operate at significantly higher efficiencies than current internal combustion engines used by the Army. System attributes to be optimized include: overall efficiency, fuel flexibility, activity maintenance and poison tolerance of the various catalysts, startup/shutdown timescales, process robustness, reliability/ruggedness, safety, thermal/acoustic signature and integration, and reductions in overall weight and volume. Additional efforts will be conducted to design and adapt fuel processor/fuel cell systems to appropriate electrical loads with respect to voltage, current, AC/DC operation, peak power requirements versus average power and overall autonomy time. This funding will go towards the total project budget of $6.7 million, which includes approximately $1.206 million that will be retained by OSD and TARDEC/NAC for administrative and technical support functions and the remaining $5.494 million will be used by Auburn University to complete R & D activities. All subcontracts from Auburn University will be approved by the DOD technical program manager and the respective contracting officers at the DOD and Auburn University. This request is in direct support of the U.S. Army Tank Automotive Research Development and Engineering Center's program on Fuel Cell Development for Military Vehicles as conducted by their National Automotive Center. This request is consistent with the intended and authorized purpose of the Department of the Army, Research, Development, Test and Evaluation, Combat Vehicle and Automotive Advanced Technology Account. Auburn University will meet or exceed all statutory requirements for matching funds where applicable.

EARMARK DECLARATION

HON. JIM SAXTON

OF NEW JERSEY

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. SAXTON. 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 FY 2009 Defense Appropriations Bill.

Project: Ballistic Missile Defense—Aegis

Funding Amount: $20,000,000

Account: Research, Development, and Testing and Evaluation Ballistic Missile Defense Aegis

Legal Name of Requesting Entity: Lockheed Martin

Address of Requesting Entity: 199 Borton Landing Rd, Moorestown, NJ 08057

Description of Request: Ballistic Missile Defense Aegis system provides resources to close the capability gap between current Sea Based BMD capabilities and the emergent BMD threats.

Project: Vehicle Common Armor Manufacturing Process (VCAMP)

Funding Amount: $2,500,000

Account: Army Research, Development, and Testing and Evaluation End Item Industrial Preparedness Activities

Legal Name of Requesting Entity: SMH International, LLC

Address of Requesting Entity: 100 Technology Way, Suite 210, Mount Laurel, NJ 08054

Description of Request: Vehicle Common Armor Manufacturing Process develops a common armor manufacturing process for force protection aimed at enhancing soldier survivability by reducing vehicle weight and speeding production.

Project: Battlefield Anti-Intrusion System (BAIS) Funding Amount; $3,000,000

Account: Army Procurement Physical Security

Legal Name of Requesting Entity: L–3 Communications

Address of Requesting Entity: 1 Federal Street, Camden, NJ 08103

Description of Request: Battlefield Anti-Intrusion System detects and classifies intruding personnel, wheeled, and tracked vehicles for forward intelligence collection or perimeter self-protection.

Project: Software Lifecycle Affordability Management (SLAM), Phase II

Funding Amount: $1,000,000

Account: Army Research, Development, Testing and Evaluation Advanced Tactical Computer Science and Sensor Technology

Legal Name of Requesting Entity: PRICE Systems, LLC

Address of Requesting Entity: 17000 Commerce Parkway Suite A, Mount Laurel, NJ 08054

Description of Request: Software Lifecycle Affordability Phase II model enables the Army to determine which software lifecycle strategies design realizes the greatest number of capabilities at the lowest cost, following the best schedule.

Project: Large Diameter Precision Aspheric Glass Molding

Funding Amount: $2,900,000

Account: Army Research, Development, Testing and Evaluation Weapons and Munitions Advanced Technology

Legal Name of Requesting Entity: Edmond Optics, Inc

Address of Requesting Entity: 101 E. Cloucester Pike, Barrington, NJ 08007

Description of Request: Large Diameter Precision Aspheric Glass Modeling technology is key in developing a secure US manufacturing base for low-cost precision aspheric optics, thus eliminating the current dependence of the DoD on foreign sourced products.

Project: Virtual Interactive Combat Environment (VICE)

Funding Amount: $2,000,000

Account: Army Procurement Training Devices

Legal Name of Requesting Entity: Dynamic Animation Systems

Address of Requesting Entity: 12015 Lee Jackson Highway, Suite 200, Fairfax, VA 22033

Description of Request: Virtual Interactive Combat Environment (VICE) provides a virtual environment within which small combat teams can be trained in current rules of engagement and tactics, techniques, and procedures. Six squad configurations of VICE will be procured for the NJ National Guard Joint Training and Training Development Center at Ft. Dix, which will improve the training for New Jersey Guardsmen and Reservists, as well as those from other States, mobilizing at Fort Dix and preparing to deploy into combat.

Project: Short Range Ballistic Missile Defense

Funding Amount: 28,000,000

Account: Defense Wide Research, Development, and Testing and Evaluation Ballistic Missile Defense Terminal Defense Segment

Legal Name of Requesting Entity: Rafael Advanced Defense Systems, Ltd

Address of Requesting Entity: 6903 Rockledge Drive, Bethesda, MD 20817

Description of Request: Short Range Ballistic Missile Defense is a joint Missile Defense Agency (MDA) and Israel Missile Defense Organization (IMDO) program to develop and deploy a cost-effective, broad-area defense for the State of Israel against short range ballistic missiles, large caliber rockets, and cruise missiles.

Project: Unified Security Forces Operations Facility, McGuire AFB

Funding Amount: $7,200,000

Account: Defense Wide Military Construction

Legal Name of Requesting Entity: McGuire Air Force Base

Address of Requesting Entity: McGuire Air Force Base, NJ

Description of Request: Unified Security Forces Operations Facility, McGuire Air Force Base, Fort McGuire, NJ. The facility is intended for joint use and will consolidate all security operations command and control at the McGuire-Dix-Lakehurst Joint Base.

Project: Modification of Authorization for Barnegat Inlet to Little Egg Harbor Inlet, NJ project to address handling of military munitions

Account: Defense Operations and Maintenance, Army

Legal Name of Requesting Entity: U.S. Army Corps of Engineers

Address of Requesting Entity: 100 East Penn Square, Philadelphia, PA 19107

Description of Request: Modifies the authorization for the Barnegat Inlet to Little Egg Harbor Inlet, NJ project to address the handling of military munitians placed on the beach during construction at Federal expense.

TRIBUTE TO DR. MICHAEL ALLISON KELLY

HON. ANNA G. ESHOO

OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Ms. ESHOO. Madam Speaker, I rise today to pay tribute to an outstanding researcher, business leader, professor, husband, father, grandfather, sailor, winemaker and prolific inventor, Michael A. Kelly, who is retiring after decades of outstanding work at Stanford University in the Department of Materials Science and Engineering.

Mike was born to James and Irene Kelly on December 14, 1936, in Roswell, New Mexico, (pop. 35,000—largest city for 200 miles) with wide open spaces and lots of sky. The Navy gave him an ROTC scholarship to UCLA when he was 18 years old and because he was such an outstanding student, he graduated in 1959 with a B.S. in engineering.

The Navy sent Mike to the Brooklyn Navy Yard for 3 years where large ships equivalent to aircraft carriers were built. He loved New York City where military service people were treated with great respect and given free tickets to Broadway plays and concerts. Mike attended Brooklyn Polytechnic during this time and received his MSEE in 1963.

After the Navy, Mike returned to California where he was accepted into one of the most competitive graduate programs in the nation, University of California at Berkeley's Physics Department. Mike studied photonuclear physics experiments on oriented nuclei under Professor Carl Helmholtz, finishing a PhD in nuclear physics in 1968.

Hewlett Packard wisely tapped Mike after he graduated to run a group developing analytical instruments running HP's R&D and marketing efforts for the early XPS spectrometer which was introduced in 1972. HP sold Mike the parts needed to build an XPS. Three colleagues and Mike developed a business plan to form a company called Surface Science Laboratories based in Mountain View, California, using this spectrometer to help local manufacturers solve production problems. Unable to secure venture capital, they each contributed $5,000, and Mike departed HP and became the company's first employee, with his partners helping evenings and weekends. They managed to survive without any additional funding and they were all employed by the company within a year. They added a division to manufacture XPS instruments and grew to about 100 employees. They decided to merge with a publicly traded instrument company (Kevex Corporation, with approximately 300 employees) in 1982, and Mike became the Chief Operating Officer and later President of the combined company.

In 1984, after Kevex Corporation was purchased by a British firm, Mike began his work at Stanford University under the leadership of Stig Hagstrom, then the outstanding Chairman of the Materials Science Department at Stanford. Mike planned to stay about a year, but the environment was so pleasant and invigorating that he stayed as a Consulting Professor, teaching courses in materials synthesis and characterization. Stig accepted a position in Sweden as the Chancellor of the Universities a few years later, and Mike continued to run his research group doing work on CVD diamond growth for five years. In 1991 Mike borrowed an XPS spectrometer from his old company, (Stanford later bought it) forming the basis of what is now the surface analysis lab in SNL. A recent collaboration with the brilliant and wonderful Professor ZX Shen developing a microwave microscope has been a particularly valuable experience for Mike.

Mike has been awarded many professional honors including the IR(100) Award for an imaging, photon counting detector; IR(500) Award for a high spatial resolution XPS spectrometer; the Glenn T. Seaborg Laboratory Special Award for a soft x-ray window; and the Takeda Foundation Techno-Entrepreneurship Award. Mike is a member of the American Physical Society, a Fellow of the American Vacuum Society, and member of the Materials Research Society. He is published and holds many patents.

Lastly, Mike enjoys the honor of being part of the Kelly Clan which includes his wife Carol; his children Jim, Paul, Maureen, and Brian, their spouses and partners Charlie, Lisa, and Jack; Carol's children Karen and Eric, and Eric's wife Sarah; his brothers and sister Tom, Dick, and Barbara, and their spouses and partners Jan, Melanie and Milt; his nephews and nieces Mike (and his wife Darlene), Sean, Kathy (and her husband Mike), Patty, Tommy, Kelly, Mike, Gretchen, and Matt; and his adored grandchildren Izzy, Annie, Lucy, Ryan, Jack, and Katie.

Madam Speaker, I ask my colleagues to join me in honoring the work of Dr. Michael A. Kelly as he begins the next exciting chapter of his life. Mike has given exemplary service to advance the research goal of better understanding of materials and energy sciences that form the foundation for developing new, clean energy with less impact on our environment, an endeavor that benefits our entire nation. He is a conscientious and gifted mentor of the next generation of talented young scientists, and a true example of being a scholar and a gentleman. It is a privilege to know and represent Mike Kelly and an honor to single out his extraordinary achievements and contributions.

TRIBUTE TO SOUTH WINNESHIEK FFA DAIRY JUDGING TEAM

HON. TOM LATHAM

OF IOWA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. LATHAM. Madam Speaker, I rise today to honor a great achievement by the South Winneshiek Future Farmers of America (FFA) dairy judging team of Kari Lien and Jordan Hanson of Winneshiek County, Iowa. They were recently named the international champions at the Royal Highland Show in Edinburgh, Scotland.

The annual Royal Highland Show, which started in 1822, is a 4-day countryside festival and Scotland's biggest outdoor event. In addition to being named to the top dairy judging team, Kari Lien was named the individual champion. The four-member team of Kari, Jordan, Aaron Lien, and Carly Lyons advanced to the international competition before being split into two teams by the organizers.

The example set by Kari, Jordan, Aaron, and Carly demonstrates the rewards of hard work, dedication and determination. Their triumph is an honor that we all can admire and be proud of.

I am honored to represent the members of the South Winneshiek FFA dairy judging team and their adviser Dennis Bluhagen in the United States Congress. I know that my colleagues join me in congratulating them and wishing them continued success in their future endeavors.

HONORING CHRISTOPHER WILLIAM PARNACOTT

HON. SAM GRAVES

OF MISSOURI

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. GRAVES. Madam Speaker, I proudly pause to recognize Christopher William Parnacott of Gladstone, Missouri. Christopher is a very special young man who has exemplified the finest qualities of citizenship and leadership by taking an active part in the Boy Scouts of America, Troop 180, and earning the most prestigious award of Eagle Scout.

Christopher has been very active with his troop, participating in many Scout activities. Over the many years Christopher has been involved with Scouting, he has not only earned numerous merit badges, but also the respect of his family, peers, and community.

Madam Speaker, I proudly ask you to join me in commending Christopher William Parnacott for his accomplishments with the Boy Scouts of America and for his efforts put forth in achieving the highest distinction of Eagle Scout.

EARMARK DECLARATION

HON. PHIL ENGLISH

OF PENNSYLVANIA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. ENGLISH of Pennsylvania. Madam Speaker, pursuant to the Republican leadership standards on earmarks, I am submitting