



# Recovery Act Awards

Total Awards to date: 24  
Total Award Dollars \$12,360,726

13-Jan-12

## Advanced Tech For Large Stru Sys

### Richard Sause

National Science Foundation

*NEESR-CR: Performance-Based Design for Cost-Effective Seismic Hazard Mitigation in New Buildings Using Supplemental Passive Damper Systems*

Total Funding: \$710,691      START\_DATE: 10/1/2009      END\_DATE: 9/30/2012

### Richard Sause

National Science Foundation

*REU to 542138: NEESR-CR: Performance-Based Design for Cost-Effective Seismic Hazard Mitigation in New Buildings Using Supplemental Passive Damper Systems*

Total Funding: \$36,000      START\_DATE: 10/1/2009      END\_DATE: 9/30/2012

## Chemical Engineering

### Mark A Snyder

University of Delaware

*Rational Design of Innovative Catalytic Technologies for Biomass Derivative Utilization*

Total Funding: \$602,577      START\_DATE: 8/1/2009      END\_DATE: 7/31/2014

## Chemistry

### David T. Moore

U.S. Department of Energy

*Electric Field Swing Adsorption for Carbon Capture Applications*

Total Funding: \$560,809      START\_DATE: 1/1/2010      END\_DATE: 6/30/2012

## Civil & Environmental Engineering

### Sibel Pamukcu

National Science Foundation

*Wireless Signal Networks for Subsurface Modeling and Geo-Event Characterization*

Total Funding: \$209,835      START\_DATE: 8/1/2009      END\_DATE: 7/31/2012

### Muhannad T. Suleiman

Lafayette College

*RUI: Pervious Concrete Piles: An Innovative Ground Improvement Alternative*

Total Funding: \$199,366      START\_DATE: 9/1/2010      END\_DATE: 8/31/2012

## Computer Science & Engineering

### Liang Cheng

National Science Foundation

*NeTS: Small: Collaborative Research: An Integrated Environment-Independent Approach to Topology Control in Wireless Ad Hoc Networks*

**Total Funding:** \$156,251      **START\_DATE:** 8/1/2009      **END\_DATE:** 7/31/2012

### John R. Spletzer

National Science Foundation

*CAREER: Towards Autonomous Wheelchair Systems in Urban Environments*

**Total Funding:** \$400,000      **START\_DATE:** 6/1/2009      **END\_DATE:** 5/31/2014

### John R. Spletzer

National Science Foundation

*REU to 542085: CAREER: Towards Autonomous Wheelchair Systems in Urban Environments*

**Total Funding:** \$80,000      **START\_DATE:** 6/1/2009      **END\_DATE:** 5/31/2014

## Earth & Environmental Sciences

### Robert K. Booth

National Science Foundation

*Continental Patterns of Moisture Anomalies Associated with Late Holocene Mid-Latitude Megadroughts*

**Total Funding:** \$259,921      **START\_DATE:** 9/1/2009      **END\_DATE:** 8/31/2012

### Bruce D. Idleman

National Science Foundation

*Collaborative Research: Sedimentary Basin Response to Paleocene-Eocene Spreading Ridge Subduction in South-Central Alaska*

**Total Funding:** \$68,282      **START\_DATE:** 8/15/2009      **END\_DATE:** 7/31/2012

### Kenneth P. Kodama

National Science Foundation

*Collaborative Research: A New Perspective on the Driving Forces of Controversial Middle Triassic Cyclostratigraphy: A Rock Magnetic Approach*

**Total Funding:** \$48,533      **START\_DATE:** 10/1/2009      **END\_DATE:** 9/30/2012

### Zicheng Yu

National Science Foundation

*Collaborative Research: Impacts of Climate Seasonality on Carbon Accumulation and Methane Emissions of Alaskan Ecosystems During the Holocene Thermal Maximum*

**Total Funding:** \$399,468      **START\_DATE:** 8/1/2009      **END\_DATE:** 7/31/2012

### Zicheng Yu

National Science Foundation

*Collaborative Research: Nonlinearities in the Arctic Climate System during the Holocene*

**Total Funding:** \$128,175      **START\_DATE:** 1/1/2010      **END\_DATE:** 12/31/2012

## Elec & Comp Engr

### Zhiyuan Yan

National Science Foundation

*Scalable Bilinear Algorithms and Architectures for Convolutions and Transforms*

**Total Funding:** \$350,000      **START\_DATE:** 9/1/2009      **END\_DATE:** 8/31/2013

## Energy Research Center

### Edward K. Levy

U.S. Department of Energy

*Thermal Integration of CO2 Compression Processes with Coal-Fired Power Plants Equipped with Carbon Capture*

**Total Funding:** \$299,901

**START\_DATE:** 12/1/2009

**END\_DATE:** 6/29/2012

## Energy Systems Engineering Program

### Liang Cheng

U.S. Department of Energy

*Keystone Smart Grid Fellowship Program*

**Total Funding:** \$748,058

**START\_DATE:** 5/1/2010

**END\_DATE:** 7/29/2013

## Environmental Initiative Program

### Dork Sahagian

National Science Foundation

*Collaborative Proposal: Ash Particles and the Bubbles that Make Them: Measuring Bubble Size from Ash Fragments for New Insights Regarding Eruption Dynamics*

**Total Funding:** \$299,748

**START\_DATE:** 7/1/2009

**END\_DATE:** 6/30/2012

## Library and Technology Services

### Bruce Taggart

National Science Foundation

*ARI-R2: Advanced Networking for the Iacocca Hall C-Wing Research Facility*

**Total Funding:** \$1,751,210

**START\_DATE:** 8/15/2010

**END\_DATE:** 7/31/2012

## Material Science & Engr

### Xuanhong Cheng

DHHS-NIH-Director's Office

*A Microfluidic Device for Label-free HIV Virion Count at Point of Care Settings*

**Total Funding:** \$410,431

**START\_DATE:** 6/5/2009

**END\_DATE:** 5/31/2012

### Himanshu Jain

National Science Foundation

*International Materials Institute for New Functionality in Glass (IMI-NFG) - Phase II*

**Total Funding:** \$3,750,000

**START\_DATE:** 8/1/2009

**END\_DATE:** 7/31/2014

### Richard P. Vinci

National Science Foundation

*MRI: Acquisition of an Atomic Force Microscope (AFM) for Visualization, Assembly, and Analysis of Materials at the Nanometer and Molecular Scale*

**Total Funding:** \$249,467

**START\_DATE:** 10/1/2009

**END\_DATE:** 9/30/2012

## Mechanical Engr & Mechanics

### Herman F. Nied

National Science Foundation

*Thermoformed Composite Structures with Knitted Fiber Reinforcement*

**Total Funding:** \$315,845

**START\_DATE:** 5/1/2009

**END\_DATE:** 6/30/2012

### Eugenio Schuster

DOE-Office of Science

*Integrated Shape, Current Profile, and Rotation Profile Control in DIII-D*

**Total Funding:** \$326,158

**START\_DATE:** 9/1/2009

**END\_DATE:** 8/31/2012