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Office of Research Support *Quarterly Newsletter*

UNIVERSITY of WISCONSIN UWMILWAUKEE

College of Engineering & Applied Science
Discover. Innovate. Lead.

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Mid-Term Report • July 1, 2008 – January 31, 2009

Dear Colleagues,

I am very pleased to present this mid-term report of our grant activity during the first half of fiscal year 2008-09.

Last fiscal year was record-breaking for our college in terms of the number of proposals funded and in the number and value of the proposals submitted. Today, early indications are that we are well on our way to another successful year:

- 47 funded grants as of Jan. 31, resulting in $5,484,079. This is 66% of last year's total funding of $9,108,091, and 65% of last year's total number of 78 funded grants.
- 82 submitted grants as of Jan. 31, resulting in $17,517,394. This is 4% of last year's combined value of $91,088,840, which includes the submission of several multi-million dollar proposals to NSF and a multi-million dollar proposal to the U.S. Army Research Laboratory (ARL).

And these multi-million dollar submissions have paid off in 2008-09:

- Pradeep Rohatgi received $1.3 million from the ARL for the advanced manufacture of lightweight self-lubricating and impact-resistant materials for military applications.
- A CEAS faculty team received $1.5 million from NSF for student scholarships and curriculum development. Team members include John Reisel, Hossein Hosseini, Edward Beimborn, Ethan Munson, and George Hanson.

In addition, our rate of funded proposals to submitted proposals currently is 44%—this is an exceptionally strong number, indicating that our faculty is doing important, innovative, and valuable research.

This mid-term report lists each proposal that faculty submitted and had funded in FY 2008-09, and includes the grant title, sponsor, amount, and Co-PI information.

The Office of Research Support gathered this information from monthly funded grant reports distributed by the Graduate School, as well as internal records.

Keep up the great work!

New NSF Changes Include New Salary, Post-Doctoral Mentoring Requirements

The National Science Foundation (NSF) has made three significant changes that were recently announced. These changes became effective Jan. 1, 2009.

Summer Salary Policy

NSF is providing greater flexibility in charging salary by eliminating the cap on salary to two summer months. Instead, PIs now can request salary support for any two months in one year. Therefore, you can now use the two-month allotment for salaries throughout the year and not just on summer salaries, as had been the practice.

New Mentoring Requirement for PIs Hiring Post-Docs

Proposals requesting support for a post-doctoral fellow must now include, as a separate section within the 15-page Project Description, a description of how you will mentor the post-doc and the types of mentoring activities you will provide. The mentoring activities will be assessed in the merit review as part of the Broader Impacts criteria. Proposals that include a post-doc but do not include a separate section on mentoring activities within the Project Description will be returned without review.

SGER Mechanism Replaced with RAPID and EAGER

NSF has cancelled the SGER (Small Grants for Exploratory Research) funding mechanism and replaced it with two new mechanism: RAPID and EAGER.

PIs can use RAPID (Grants for Rapid Response Research), to fund quick-response research on human-initiated disasters or similar unanticipated events. Funding can be used to obtain or access data, facilities, or special equipment. You can request up to $200,000 for one year. PIs can use EAGER (Early-Concept Grants for Exploratory Research) to support exploratory work in its early states on untested but potentially transformative, high-risk/high-return ideas or approaches. You can request up to $300,000 for up to two years.

Before submitting a RAPID or EAGER proposal, be sure to discuss your project with the NSF program officer whose expertise is most relevant to the proposal topic.

For more information, please contact Michelle Schoenecker in the CEAS Research Support Office at schoene7@uwm.edu or 229-4421.

Proposals Funded

July 1, 2008– January 31, 2009

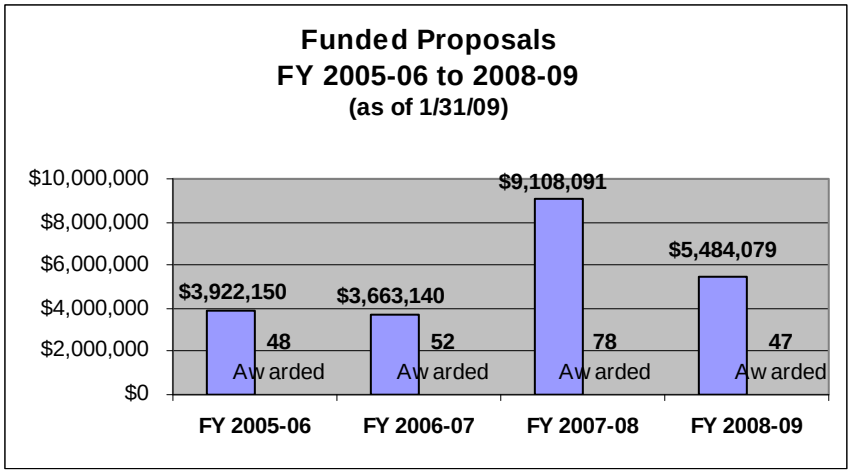
PI/Co-PI	Sponsor	Title	Amount
Abu-Zahra, N.	UWM Office of Undergraduate Research	Synthesis and Characterization of Polyurethane-Nanoclay Composites	$4,000
Amano, R.	Milwaukee Tool	Analysis of Flow and Stress on Tools	$37,916
Amano, R.	We Energies	Wind Turbine Blade Aerodynamics	$98,236
Amano, R.	Harley-Davidson Motor Company	Graduate Student Internship Agreement	$35,804
Armstrong, B.	National Institutes of Health	RGR-Based Motion Tracking for Real-Time Adaptive MR Imaging and Spectroscopy	$283,375
Bravo, H., PI; Bootsma, H., McLellan, S., Co-PIs	Village of Shorewood	Atwater Park Beach Ecological Study	$44,600
Chen, J.	National Science Foundation	SGER: A Novel Gas RET	$10,253
Chen, J.	National Science Foundation	REU Supplement for NER: Carbon Nanotube Coated with Nanoparticles: Enabling Structure for Nanomanufacturing & Nanodevices	$11,943
Cheng, C.	National Science Foundation	Problems on Matchings with Preferences	$100,000
Christensen, E.	Milwaukee Metropolitan Sewerage District	Phosphorus Speciation and Loads in Stormwater and CSOs of the MMSD Service Area, 2000-2008	$22,498
Garg, A.	National Institutes of Health/ University of Utah	Chronic Illness Risk Factors and Health Promotion Among Truck Drivers	$85,554
Garg, A.	Various Non-Federal Agencies		$14,800
Garg, A.	General Electric	GIFT: WI Distinguished Professorship	$14,300
Garg, A.	Centers for Disease Control and Prevention	Upper-Limb Musculoskeletal Disorders: Quantifying the Risk	$479,939
Gong, S.	National Science Foundation	ACS PMSE Symposium "Stimuli Responsive Polymeric Materials"	$20,000
Gong, S.	Catalyst Grant-UWM Research Foundation	Multifunctional Unimolecular Micelles for Targeted Cancer Therapy	$105,000
Goyal, M.	Johnson Controls, Inc.	Performance Evaluation of Zigbee/802.15.4 Networks	$86,000
Hanson, G.	U.S. Army	Carbon Nanotube Antennas	$39,647
Hanson, G.	RF Nano Corporation	Carbon Nanotube Antenna Development	$57,646
Horowitz, A.	National Center for Freight & Infrastructure Research & Education	CFIRE Partner Grant	$100,000
Kouklin, N.	National Science Foundation	REU Supplement to Precisely Engineered, Scalable Carbon Nanotube Arrays and Nanotube-Polymer Nanowires	$5,993
Li, J.	We Energies	Biocontainment of PCBs on Concrete Surfaces	$10,000
Liao, Q., PI; Bootsma, H., Co-PI	National Science Foundation	Development and Deployment of a Versatile In Situ Underwater Miniature PIV System	$204,754
Lovell, M.	University of Pittsburgh	An Investigation of Filter Cake Formation on a Porous Rock: Modeling and Experiments	$60,000
Mafi, A.	UWM Office of Undergraduate Research	Bandwidth Improvement in Multi-Mode Optical Fibers via Scattering From Embedded Inclusions	$2,000
Mafi, A.	Corning, Inc.	Development of Semi-Analytical Methods for the Estimation of Nonlinear Phase Noise in Optical Communication Systems	$54,551

Data Source: CEAS Grants Database

Proposals Funded

July 1, 2008– January 31, 2009

PI/Co-PI	Sponsor	Title	Amount
Mafi, A.	Corning, Inc.	Corning Equipment Donation	$11,997
Mafi, A.	Corning, Inc.	Corning Equipment Donation	$29,303
McRoy, S.	UWM Office of Undergraduate Research	Tool Development for Annotating Discourse Structure in Biomedical Text	$1,800
McRoy, S.	UWM Office of Undergraduate Research	Annotating Discourse Structure in Biological Text for Text Mining	$2,000
Naik, T.	UWM Foundation	Center for By-Products Utilization	$20,000
Nasiri, A.	We Energies	PV System Implementation on EMS	$50,970
Nasiri, A.	Wisconsin Focus on Energy	Solar Electric (Photovoltaic) System	$35,000
Nasiri, A.	Eaton Corporation	Eaton Solar Support	$25,000
Pillai, K.	National Science Foundation	REU Supplement: Investigating use of Rapid Prototyping Methods to Create Calibration Tool for 1D Flow Device for Measuring Permeability of Fiber Mats	$5,305
Reisel, J.	UWM Office of Undergraduate Research	Lab Measurements of the Effect of Intake Air Humidity Level on Air Compressor Performance	$2,000
Reisel, J., PI; Co-PIs Hosseini, H., Munson, E., Beimborn, E., Hanson, G.	National Science Foundation	Fostering Opportunities foR Tomorrow's Engineers (FORTE)	$1,574,795
Renken, K.	UWM Office of Undergraduate Research	Development of an Electrokinetic Nanotechnology System to Clean up Radioactive Contaminants	$2,000
Rohatgi, P.	U.S. Army	Advanced Manufacture of Lightweight Self-lubricating and Impact-Resistant Materials for Military Applications	$1,312,000
Sobolev, K.	ProCorp Enterprises	Utilization of Calcium Carbonate Pellets as Concrete Aggregates: Steps I and II	$23,614
Tabatabai, H.	U.S. Dept. of Transportation/ UW-Madison	Analysis of Wisconsin WIM Data	$25,000
Titi, H.	Wisconsin Highway Research Program	Investigation of Vertical Members To Resist Surficial Slope Instabilities	$5,000
Wang, W.	Office of Naval Research	Magnetic Content Addressable Memory	$122,448
Ying, L.	GE Healthcare Technologies	Compressed Sensing Undersampling Methods for MRI - Ex.A-05	$44,988
Yu, D.	We Energies	Unrestricted Wind Energy Research Fund	$120,000
Zhang, H.	Medical College of Wisconsin	Functional Imaging for Diabetic Eyes	$0
		Total Funded	**$5,402,029**



Data Source: CEAS Grants Database

Proposals Submitted

July 1, 2008– January 31, 2009

PI/Co-PI	Sponsor	Title	Amount
Abu-Zahra, N.	UWM Research Foundation	Synthesis and Characterization of Polymer Foam Nano-composites for Hydrogen Separation and Storage Applications	$60,412
Abu-Zahra, N.	Catalyst Grant-UWM Research Foundation	Nanocomposite Polymer Foams for Hydrogen Separation and Storage in Fuel Cells	$62,000
Amano, R.	WiSys Technology Foundation	Study of an Efficient Centrifuged Pasteurization System for Milk Production Processes	$49,997
Amano, R.	Uniplex Corp.	Development of Innovative Aeration Systems	$199,486
Amano, R.	We Energies	Wind Turbine Blade Aerodynamics	$98,236
Amano, R.	Harley-Davidson Motor Company	Graduate Student Internship Agreement	$35,807
Armstrong, B.	Material Technologies Corporation/U.S. Air Force	RGR-Based Wide-Area Robotic Drilling	$6,000
Bockhorst, J., Co-PI	Medical College of Wisconsin	Automation of the Histological Assessment of Non-Alcoholic Fatty Liver Disease	$94,239
Bravo, H., PI; McLellan, S., Bootsma, H. Co-PIs	Village of Shorewood	Atwater Park Beach Ecological Study	$51,951
Chen, J.	WiSys Technology Foundation	Nanoscale Corona Discharges	$50,000
Chen, J.	American Chemical Society	Fundamental Studies on Quantum-Dot-Sensitized Carbon Nanotube Solar Cells	$100,000
Chen, J.	National Science Foundation	GOALI: A Novel Ion Source Based on Carbon Nanotubes	$303,902
Chen, J.	National Science Foundation	Active Hybrid Nanocrystal-Carbon Nanotube Structures for Nanomanufacturing	$308,798
Chen, J.	National Science Foundation	RET Supplement: A Novel Gas Sensing Platform with Tin Oxide Nanocrystals Supported on a Carbon Nanotube	$20,000
Chen, J., PI; Co-PIs: Hirschmugl, C., Gajdardziska-Josifovska, M.	National Science Foundation	Collaborative Research: Engineering Miniaturized Gas Sensors with Hybrid Nanostructures	$404,643
Chen, J., PI; Weinert, M., Co-PI	National Science Foundation	Collaborative Research: Exploration of Graphene-Nanocrystal Metamaterials	$263,725
Cheng, C.	National Science Foundation	CAREER: Computational Problems in Matchings-with-Preferences, Distinguishing Labelings, and Graph Packing and Covering	$531,317
Christensen, E.	Milwaukee Metropolitan Sewerage District	Phosphorus Speciation & Loads in Stormwater and CSOs of MMSD Service Area, 2000-2008	$22,498
Christensen, E.	Water Environment Research Foundation	Protecting Watersheds by Finding Sanitary Sewerage in Storm Sewers	$116,267
Dumitrescu, A.	National Science Foundation	Problems at Interface Between Ramsey Theory, Combinatorial Geometry & Number Theory	$335,256
Garg, A., PI; Kapellusch, J., Co-PI	Center for Disease Control and Prevention/UC-Berkeley	A Pooled Longitudinal Analysis of Workplace Carpal Tunnel Syndrome	$260,587
Ghorbanpoor, A., PI; Helwany, S., Co-PI	U.S. Department of Transportation	Rapid Replacement/Construction of Bridges With FHWA Integrated Bridge System	$148,264
Gong, S.	U.S. Army	Multifunctional Drug Nanocarriers	$107,802

Data Source: CEAS Grants Database

Proposals Submitted

July 1, 2008– January 31, 2009

PI/Co-PI	Sponsor	Title	Amount
Gong, S.	National Science Foundation	ACS PMSE Symposium "Stimuli Responsive Polymeric Materials"	$20,000
Gong, S.	National Science Foundation	Advanced Carbon Nanotube-Liquid Crystalline Elastomer Nanocomposites and Their Actuation Properties	$399,650
Gong, S., Co-PI; Turng, T., PI	National Science Foundation/ UW-Madison	NSF Partnerships for Innovation Program Project: Commercialization of Next-Generation Nano-Tailored High Performance and Lightweight Materials Through Partnership and Innovations	$60,000
Gong, S., PI; Chen, Jian, Co-PI	National Science Foundation	Advanced Carbon Nanotube-Liquid Crystalline Elastomer Nanocomposites and Their Actuation Properties	$396,650
Gong, S., PI; Steeber, D., Co-PI	National Science Foundation	Multifunctional Unimolecular Micelles for Targeted Cancer Therapy	$381,512
Gong, S., PI; Steeber, D., Co-PI	Catalyst Grant-UWM Research Foundation	Positively Temperature-Responsive Smart Nanoreactors Capable of Modulating Catalysis	$75,000
Goyal, M., PI; Hosseini, H., Armstrong, B., Co-PIs	UWM Research Foundation	Enhancing Reliability in IEEE 802.15.4 Wireless Sensor Networks	$89,641
Goyal, M., PI; Hosseini, H., Co-PI	WiSys Technology Foundation	An Ants Inspired Routing Protocol for Large-Scale Wireless Sensor Networks	$50,000
Hanson, G., Co-PI	U.S. Department of Defense - Office of Naval Research	THz Graphene Devices	$645,099
Jang, J.	WiSys Technology Foundation	Software Tool for Material Handling Optimization Interfaced with an Online Data Collection System	$49,862
Jang, J.	UWM Research Foundation	Reference Model for Implementation of BPEL-based WFMS for Semiconductor Production	$105,600
Jang, J., PI; Abu-Zahra, N., Co-PI	WiSys Technology Foundation	Green Manufacturing: Scrap & Energy Consumption Reduction for Parallel Machine Production with Sequence-dependent Machine Setup	$49,975
Jen, T.C.	WiSys Technology Foundation	CMP Slurry Condition Monitoring Using Shockwave Focusing	$50,000
Jen, T.C.	National Science Foundation	CMP Slurry Condition Monitoring Using Shockwave Focusing Technology	$304,420
Klemer, D.	Medical College of Wisconsin	A Novel Microelectronic DNA Sensor for Neonatal Alloimmune Thrombocytopenia Predisposition Screenin	$50,000
Klemer, D., Co-PI	Sentinel Biosemiconductor, LLC	An In-Vitro Microelectronic DNA Sensor for Screening of Neonatal Alloimmune Thrombocytopenia Predisposition	$53,676
Klemer, D., PI; Chen, J., Co-PI	Medical College of Wisconsin	Cardiotrophin-like Cytokine-1 and Renal Disease	$25,000
Kouklin, N.	National Science Foundation	CAREER: Cu-doped ZnO Nanowires as Novel Nano-Opto-Electronic Material for Multispectral and Ultra-Sensitive Detection Applications	$411,312
Liao, Q., PI; Bootsma, H., Co-PI	National Science Foundation	Development and Deployment of a Versatile In Situ Underwater Miniature PIV System	$372,358
Lovell, M.	National Science Foundation /Carnegie Mellon University	Collaborative Research: A Tribological Study of Granular Materials: Experiments & FE Modeling	$227,754
Mafi, A.	WiSys Technology Foundation	Bandwith Improvement in Multi-mode Optical Fibers via Scattering from Embedded Inclusions	$34,355
Mafi, A.	UWM Research Foundation	Design of High-Sensitivity Fiber Optic Surface Plasmon Resonance Sensor	$62,014

Data Source: CEAS Grants Database

Proposals Submitted

July 1, 2008– January 31, 2009

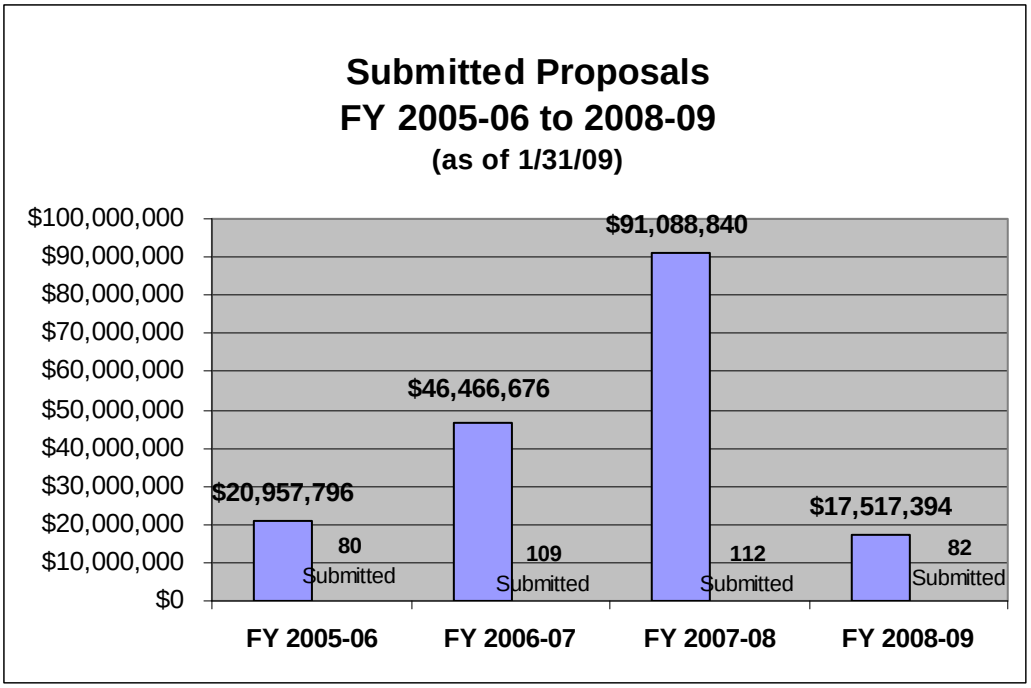
PI/Co-PI	Sponsor	Title	Amount
Mafi, A., PI; Hanson, G., Co-PI	National Science Foundation	Design and Optimization of High Sensitivity Surface Plasmon Resonance Sensors	$445,689
McRoy, S.	National Science Foundation	Collaborative Research CCF: New Methods for Dynamically Adaptive Interfaces for Heterogeneous Interactive Applications/Devices	$285,983
Naik, T., PI; Renken, K., Sobolev, K., Co-PIs	United States-Israel Bi-National Science	Radon exhalation, Microstructural Transformations and Pozzolanic Activity of Fly Ash-Portland Cement Systems	$69,030
Nasiri, A.	Wisconsin Focus on Energy	Identification & Reduction of Stand-by Power Consumption in Industrial, Commercial & Residential Markets	$139,513
Nasiri, A.	We Energies	PV System Implementation on EMS	$50,970
Nasiri, A.	Wisconsin Focus on Energy	Solar Electric (Photovoltaic) System	$35,000
Nasiri, A.	National Science Foundation	CAREER: Benefit Quantification and Size Optimization of Energy Storage for Renewable Energy Systems	$532,056
Petering, M.	National Science Foundation	CAREER: Operations Research Developments in the Engineering of Maritime Container Transportation Systems for the 21st Century	$400,011
Pickering-Reyna, B.	Wisconsin Alliance for Minority Participation	Science Explorations III 2009-2010	$24,985
Pillai, K.	SC Johnson & Son, Inc.	Modeling Evaporation and Transport of Multi-Component Liquids in Wicks	$30,877
Renken, K.	WiSys Technology Foundation	Application of Electrokinetic Technology to Decontaminate Soils and Concretes	$49,992
Rohatgi, P.	National Science Foundation	Synthesis and Characterization of In-Situ and Ex-situ Metal Matrix Nanocomposties for Automotive and Electronic Applications	$100,000
Rohatgi, P.	National Science Foundation	U.S.-Egypt Cooperative Research: Manufacture of Alumi-num and Magnesium Matrix Composites Under Industrial Conditions (Supplement)	$12,500
Rohatgi, P.	U.S. Army	Advanced Manufacture of Lightweight Self-lubricating and Impact-Resistant Materials for Military Applications	$1,312,000
Rohatgi, P., PI; Amano, R., Co-PI	UWM Research Foundation	Self Healing Solders for Automation Industry	$74,908
Sobolev, K.	ProCorp Enterprises	Utilization of Calcium Carbonate Pellets as Concrete Aggregates: Steps I and II	$23,614
Sobolev, K., PI; Ghorbanpoor, A., Kouklin, N., Co-PIs	Transportation Research Board	The Development of Novel Photocatalytic Materials for Abatement of Transportation-Related Air Pollutants	$98,324
Sobolev, K., Tabatabai, H., Kouklin, N., Co-PIs	National Science Foundation	GOALI: Nano-Engineered Eco Cement with Large Volumes of Locally Available By-Products	$277,404
Xu, G.	Office of Naval Research	Efficient ECC for Protecting Cyberspace	$139,700
Xu, G.	National Science Foundation	CAREER: Efficient Computation Using Chinese Remaindering, Compressed Sensing	$407,329
Xu, G., PI; Ying, L., Co-PI	WiSys Technology Foundation	Compressed Sensing for Dynamic MRI	$50,000
Ying, L.	GE Healthcare Technologies	Compressed Sensing Undersampling Methods for MRI - Ex. A-05	$22,494
Ying, L.	National Science Foundation	CAREER: Compressed Sensing Magnetic Resonance Imaging	$502,304
Yu, D., PI; Lovell, M., Co-PI	National Science Foundation	RET Site: Milwaukee Regional Energy Education Initiative	$499,978

Data Source: CEAS Grants Database

Proposals Submitted

July 1, 2008– January 31, 2009

PI/Co-PI	Sponsor	Title	Amount
Zhang, H.	Univ. Southern California/ National Institutes of Health	Multimodal Retinal Functional Imaging for Diabetic Retinopathy	$1,094,066
Zhang, H.	Greater Milwaukee Foundation	Pushing the Limits of Photoacoustic Microscopy: Functional Imaging for Diabetic Eyes	$200,000
Zhang, H.	WiSys Technology Foundation	Integrated Photoacoustic Multiphoton Microscopy for in vivo Imaging	$50,000
Zhang, H.	Juvenile Diabetes Research Foundation	Multimodal Functional Imaging for Diabetic Retinopathy	$220,000
Zhang, H.	Medical College of Wisconsin	Functional Imaging for Diabetic Eyes	$0
Zhang, H.	Medical College of Wisconsin	Feasibility Study for Developing a Novel Functional Retinal Imaging Technology: Photoacoustic Ophthalmoscope	$50,000
Zhang, H.	American Diabetes Association	Functional Imaging for Diabetic Retinopathy	$45,637
Zhang, H., Co-PI	National Institutes of Health/ Northwestern University	Real-Time Full-Field Vascular Imaging for Diabetic Complications	$11,195
Zhang, H., PI; Vladislav, Y., Co-PI	National Science Foundation	Label-Free Molecular Imaging Based on Stimulated Raman Excitation and Photoacoustic Detection	$481,900
Zhao, J.	National Science Foundation	CAREER: Load and Resistance Durability Design using High Strength Concrete with Controlled Ductility	$483,016
Zhao, J., PI; Ying, Sobolev, Liao, Zhang, Xu, Co-PIs	National Science Foundation	MRI: Acquisition of a Magnetic Resonance Imaging System for Advancing Research in Engineering & Material Science	$1,400,000
Zhao, T., PI; Zhang, J., Co-PI	National Science Foundation	Collaborative Research: Video-Based Traffic Incident Detection	$243,376
Zhao, T., PI; Zhang, J., Mu, X., Co-PIs	U.S. Army	Signal Detection -- An Approach for Identifying Patients as Candidates for Clinical Trials	$108,478
		Total Submitted:	**$17,517,394**



Data Source: CEAS Grants Database

CEAS Welcomes Mike Krauski and Michele Kitson

We are pleased to announce the appointment of two new staff members in CEAS: Michael Krauski, Director of Corporate Relations, and Michele Kitson, Director of Development. In these newly created roles they will develop resources for the college that will serve our current needs and support future growth.

Mike Krauski joined CEAS on February 2, 2009. His duties include pursuing opportunities with leading corporations to advance faculty research and students' educational experiences. He will initiate new relationships and build on existing relationships with local and regional industry.

Mike has a B.S. degree in civil engineering and an M.S. in civil and structural engineering from Marquette University, and an Executive MBA from UWM. He has taken graduate courses in engineering mechanics from CEAS. His work experience includes selling and marketing finite element analysis software to major aerospace and automotive companies and federal agencies, including NASA and the U.S. Navy.

Before entering sales, Mike was a structural development/ project engineer at Bucyrus-Erie Company, working in the mining division. Mike can be reached at *krauski@uwm.edu* or 229-6772.

Michele Kitson joined CEAS on February 9, 2009. Her primary activity is outreach to CEAS alumni and current supporters. She also coordinates requests to the corporate and foundation community through the UWM Development Office.

Michele has nearly 20 years of non-profit experience, including more than six years in chief development roles. Most recently she served as the Director of Development for Milwaukee Shakespeare, where she was responsible for raising $1.4 million annually from private sources, including the Argosy Foundation, the Northwestern Mutual Foundation, and the Harley-Davidson Foundation.

Michele has a B.A. in Theatre and French from Cornell College and an MBA from Wake Forest University. She is originally from this region, but has worked for non-profits across the country. Michele can be reached at *kitson@uwm.edu* or 229-5603.

CEAS Welcomes Cyndi Mattson

Cyndi Mattson has been appointed as assistant to the dean, providing an array of support services for college activities. Her responsibilities include assisting the dean's office with meeting arrangements, collaborative initiatives, data gathering, external relations, and other college support.

Cyndi's background in accounting and office management includes managing corporate payroll for a Nissan dealership with 21 locations in eight different states. Most recently she processed mortgages for Marine Credit Union for the last two years.

In addition, Cyndi served six years in the U.S. Navy as a cryptologic maintenance technician, earning 52 credits in electronic technology during that time. After leaving naval service, she worked as a tax professional for four years and in financial management for five years.

Cyndi is completing her associate's degree in accounting at Moraine Park Technical College. Cyndi can be reached at *cyndim@uwm.edu* or 229-5172.