Volume 7, Issue 1

Spring 2008

Graduate Programs & Research Newsletter

UNIVERSITY of WISCONSIN UWMILWAUKEE

College of Engineering & Applied Science

Discover. Innovate. Lead.

Inside this issue:

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New Electronic Routing and Grants Management System

In mid-February UWM went live with a new grants management system that includes an electronic routing system and close integration with the grant accounting system (WISDM).

This new **WISPER (Wis**consin **P**roposal **E**lectronic **R**outing) system will replace the paper T-form, allowing for electronic signatures, routing for approvals, and submission of proposals to sponsors.

In addition, WISPER will capture a significant portion of the data required for tracking proposal submissions, negotiating awards, and setting up award accounts. The system also includes WISDM enhancements for grant management. The two systems are interconnected and will maintain a smooth flow of accurate information.

The grants management component will allow Research Services and Administration (RSA) in the Graduate School to work more efficiently by reducing the number of manual processes needed to manage grants.

The implementation of this system, along with the new effort reporting system (ECRT) that went live in November 2007, will allow an integrated process throughout the life cycle of a grant. More information about ECRT is provided on page 8.

Training Workshop

The CEAS Grant Development Office will host two training sessions on the WISPER system:

Thursday, March 27
12:00 to 1:00 p.m.
Conference Room 371

Friday, March 28
12:00 to 1:00 p.m.
Conference Room 371

Please bring your lunch. Refreshments will be provided.

New CEAS Cluster Hire Initiative

In the recent cluster hire competition, CEAS received 21 new faculty positions, including four tenure-track faculty who will focus on undergraduate research. The goal of this initiative is to increase undergraduates' interest in research and potential graduate study so they can be better prepared for engineering and technology careers.

The CEAS proposal described a comprehensive, college-wide initiative to build an administrative infrastructure and a sequential, integrated academic program as part of the normal BS degree requirements. Program components include an integrated BS-MS program, an Honors in Research Program, an Undergraduate Research Assistantship Program, and an Annual CEAS Research Fair.

In addition to the cluster hiring for undergraduate research, CEAS also received

Continued on p. 2

NSF Revises Intellectual Merit Criteria

NSF has revised its "Intellectual Merit" proposal criterion to include the extent to which a proposal suggests and explores **potentially transformative concepts**. This revision applies to all NSF proposals submitted after Jan. 5, 2008.

According to NSF, the term "transformative research" describes a wide range of endeavors that promise extraordinary outcomes, such as revolutionizing entire disciplines, creating entirely new fields, or disrupting accepted theories and perspectives. Such endeavors have the potential to change the way scientists address challenges in science, engineering, and innovation.

The concept of transformative research is not new to NSF, as recent survey results showed that most PIs perceive that NSF already welcomes transformative research and that NSF was strongly preferred over other funding sources to submit a transformative idea.

Continued on p. 2

Cluster Hires, cont. from page 1

a total of 19 faculty positions in the following areas:

Biomedical Engineering: CEAS received six faculty positions to establish a center of Biomedical Engineering that will focus on materials and devices, imaging technologies, and bioinstrumentation.

The center will conduct fundamental research and create technologies that lead to better health outcomes. The long-term goal is to develop a regular, autonomous academic unit that will offer both undergraduate and graduate degrees within five years.

Green Manufacturing: CEAS received seven faculty positions to establish the Center for Green Manufacturing. This center will produce groundbreaking, collaborative, creative, and entrepreneurial research projects involving students, faculty, and external colleagues from academia and industry.

Specifically, the center will focus on specific topics such as pollution prevention, waste minimization, and materials and energy recovery. The long-term goal is to offer both undergraduate and graduate degrees in green manufacturing within five years.

Advanced Manufacturing: Two faculty positions were awarded between CEAS and others to expand research and education in advanced manufacturing to help foster leadership and regional economic growth.

Ergonomics: Four faculty positions were awarded between CEAS and the College of Health Sciences to expand research and education in ergonomics.

Hiring for all awarded positions will begin in fall 2008.

Important Dates

April 10 & 11, 2008:
Spring Ph.D. Qualifying Exam
EMS W220; 1:00 – 5:00

April 19, 2008:
Alumni Banquet
UWM Union Ballroom

April 24-25, 2008
Conference on Climate Change and Sustainable Development
DoubleTree Hotel, Milwaukee

May 5, 2008:
Thesis Defense Deadline

May 12, 2008:
Thesis Submission Deadline

May 17, 2008:
Order of the Engineer; UWM Union Wisconsin Room; 3:00 – 5:00

May 18, 2008:
Commencement

NSF Criteria, cont. from page 1

The full text for the newly revised criterion is:

"How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the PI (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of prior work.) **To what extent does the proposed activity suggest and explore creative, original, or potentially transformative concepts?** How well conceived and organized is the proposed activity? Is there sufficient access to resources?"

If you have any questions about this or other NSF proposal requirements, contact Michelle Schoenecker at schoene7@uwm.edu or 229-4421.

NSF Replaces Social Security Numbers with IDs in FastLane

To help protect your identity, the NSF is reducing the use of Social Security Numbers (SSNs). In fall 2007, NSF began implementing ID numbers to replace the use of SSNs within FastLane as the primary means of identification.

PIs already registered within FastLane do not need to take any action. NSF already has assigned an ID to replace your SSN as your unique identifier. When you log into FastLane with your SSN, an intermediary page will display your NSF ID. You also can retrieve your ID by clicking on the "NSF ID lookup" link or by contacting the UWM Research Services & Administration Office.

The new ID will be used in conjunction with your Fast-Lane password. You will also be asked to provide your NSF ID in other areas such as password change requests and user account management.

You will still be required to use your SSN in some situations. For example, NSF will continue to require your SSN to distribute reimbursements, when applicable.

If you have any questions about the new IDs, please contact Michelle Schoenecker at schoene7@uwm.edu or 229-4421.

Graduate Open House

CEAS is hosting an open house for current seniors and May graduates to encourage them to consider graduate education at UWM.

The open house will inform students about the value of pursuing MS and Ph.D. programs and will answer questions about the graduate school process.

Faculty will be asked to dedicate a few minutes during classes that have a majority of seniors to inform them about the benefits of pursuing graduate studies and the details of the upcoming open house.

April 5
9:00 a.m. –1:00 p.m.

First Floor, EMS Building

Proposals Funded

July 1, 2007– January 31, 2008

Pi/Co-PI	Sponsor	Title	Amount
Aita, C.	Catalyst Grant-UWM Research Foundation	Smart Nanostructured Ceramic Coatings for Corrosion Protection of Electronic Components	$58,000
Amano, R.	Harley-Davidson Motor Co.	Efficiency and Performance Improvements of Catalytic Converters	$35,730
Amano, R.	We Energies	Wind Turbines Power for Tomorrow	$9,270
Armstrong, B.	Univ. of Hawaii - Burns School of Medicine (NIH)	RGR-Based Motion Tracking for Real-Time Adaptive MR Imaging and Spectroscopy	$296,352
Boyland, J.	National Science Foundation	Modular Static Checking of Software Design Intent Using Permissions	$201,427
Chen, J.	Catalyst Grant-UWM Research Foundation	Novel Hybrid Nanomaterials and their Application for Miniaturized Gas/Vapor Sensors	$67,000
Chen, J.	National Science Foundation	GOALI: Experimental Studies on Nanoscale Corona Discharges	$40,000
Chen, J.	National Science Foundation	NER: Carbon Nanotubes Coated with Nanoparticles - An Enabling Structure for Nanomanufacturing and Nanodevices	$22,250
Garg, A.	Centers for Disease Control and Prevention	Upper-Limb Musculoskeletal Disorders: Quantifying Risk	$183,033
Garg, A.	I.A. Kahn	Wisconsin Distinguished Professorship	$500
Garg, A.	Centers for Disease Control and Prevention	Upper-Limb Musculoskeletal Disorders: Quantifying Risk	$479,516
Ghorbanpoor, A.	Wisconsin Highway Research Program	Bridge Integrated Analysis and Decision Support System	$40,000
Ghorbanpoor, A.	ReGENco, LLC	Graduate Internship Program - Piatti	$28,856
Gong, S.	US Environmental Protection Agency	High-Performance Microcellular Components Made of Sustainable Biobased Polymer Composites and Produced via Injection Molding Process	$338,401
Hanson, G.	RF Nano Corporation	Carbon Nanotube Antennas	$39,646
Jen, T.C., PI Chen, J., Co-PI	National Science Foundation	SGER/GOALI: Electrostatic-Force-Assisted Cold Gas Dynamic Spray of Nanoparticles: A New Low-Temperature Process for Producing Nanostructured Coatings and Bulk Materials	$51,023
Jen, T.C., PI Chen, J., Co-PI	US Environmental Protection Agency	A Feasibility Study on Metalworking Fluid and Solid Waste Elimination for Environmentally Benign Machining Processes	$349,978
Klemer, D., PI Chen, J., Co-PI	National Science Foundation	NER: Biomolecular Detection Based on Active Hybrid Nanomaterial Sensors	$129,909
Li, Y.	Johnson Controls, Inc.	HVAC Controls Research	$45,000
Li ,Y.	Honda Research Institute	Trip-Based Optimal Power Management of Plug-In Hybrid Electric Vehicles	$50,000
Liao, Q.	Space & Naval Warfare Systems Center	Empirical Studies of Release Rates of Munition Constituents from Breached Shells	$73,411
Naik, T., PI Kraus, R., Co-PI	Electric Power Research Institute	Recycling Spray Drier Absorber Products in Cement and Concrete Applications	$79,968

Data Source: Graduate School Reports

Proposals Funded

July 1, 2007– January 31, 2008

Pi/Co-PI	Sponsor	Title	Amount
Nasiri, A.	UWM Foundation	Research	$5,900
Nasiri, A.	WiSys Technology Foundation	Techniques for Efficient Transcutaneous Power/Signal Transmission for Left Ventricular Assist Devices	$50,000
Pickering-Reyna, B.	Wisconsin Alliance for Minority Participation	Engineering and Computer Science Explorations III	$22,700
Pillai, K.	National Science Foundation	CAREER: Modeling the Unsaturated Flow During Fiber Wetting in the Manufacture of Composite Materials - Supplement 2	$10,200
Renken, K.	UWM Foundation	Radon Research	$40,000
Rohatgi, P.	UWM Foundation	Wisconsin Distinguished Professorship Industrial Match	$50,000
Rohatgi, P.	National Science Foundation	US-Korea Cooperative Research: Synthesis and Properties of Lightweight Alumina Particle-Reinforced Ductile Iron Castings	$11,995
Rohatgi, P.	National Science Foundation	Lightweight Lead Calcium Alloys-Microballoon Fly Ash Composites for Automotive Batteries Operating Under High Temperature	$30,000
Tabatabai, H., PI Ghorbanpoor, A., Co-PI	Wisconsin Highway Research Program	Evaluation of Methods of Rebar Protection, Spall Prevention and Repair Techniques on Concrete Girders	$30,000
Titi, H.	Wisconsin Highway Research Program	Determination of Resilient Modulus Values for Typical Plastic Soils of Wisconsin	$50,690
Titi, H.	Midwest Regional Univ. Transportation Center	Characterization of Unbound Materials for ME Pavement Design of Marquette Interchange	$15,000
Wang, W.	Office of Naval Research	Magnetic Content Addressable Memory	$130,066
Ying, L.	WiSys Technology Foundation	High-Speed Parallel Magnetic Resonance Imaging: Development, Implementation, and Applications	$42,053
Yu, D., PI Nasiri; A., Co-PI	We Energies	Multidisciplinary Wind Energy Research at the University of Wisconsin-Milwaukee	$75,000
Yu, D.	JunTech, Inc.	New Algorithms for PTZ Camera-Based Object Tracking	$10,000
Yu, D.	UWM Foundation	Unrestricted Research in Power Systems	$5,000
Yu, D.	UWM Foundation	Unrestricted Research Fund	$40,000
Zhao, J., PI Tabatabi, H., Co-PI	Wisconsin Highway Research Program	Analysis of Permit Vehicle Loads in Wisconsin	$49,535
Zhao, J.	Wisconsin Department of Transportation	Monitoring Deck Truss Bridges in Wisconsin	$1,000
Zhao, J.	National Science Foundation	NEESR-II: Behavior and Design of Cast-in-Place Anchors Under Simulated Seismic Loading	$374,738
		TOTAL FUNDED	**$3,663,147**

Data Source: Graduate School Reports

UWM Global Climate Change Conference April 24-25

The UWM Global Climate Change and Sustainable Development Initiative is hosting a conference to discuss the global issue of climate change in the regional context of Wisconsin and the Great Lakes. The conference will be held April 24-25 at the DoubleTree Hotel, Milwaukee City Center.

Approximate 35 speakers, including several CEAS faculty, will address such topics as the effects of climate change on ecological systems such as the Great Lakes, urban planning for CO_2 reduction, human health, as well as the promises of renewable energy.

The conference also will discuss green building materials for the 21st century and carbon neutral architecture in light of the 2030 challenge.

Registration details are available on the conference Web site at www.gccsdi.uwm.edu.

Proposals Submitted
July 1, 2007– January 31, 2008

PI/Co-PI	Sponsor	Title	Amount
Abu-Zahra, N.	WiSys Technology Foundation	Plastics- and Rubber-Nanocomposites for Building and Safety Shoe Products	$24,222
Aita, C., PI Weinert, M., Co-PI	National Science Foundation	The Physiochemistry of Engineered Nonmetallic Nanostructures	$18,034,637
Aita, C.	Catalyst Grant-UWM Research Foundation	Smart Nanostructured Ceramic Coatings for Corrosion Protection of Electronic Components	$58,000
Amano, R.	WiSys Technology Foundation	Study of a Porous-Based Radiant Burner Drying System for Paper Mills	$49,852
Amano, R.	Harley-Davidson Motor Co.	Efficiency and Performance Improvements of Catalytic Converters	$35,730
Amano, R.	We Energies	Wind Turbines Power for Tomorrow	$9,270
Bockhorst, J.	National Science Foundation	CAREER: Machine Learning for Probabilistic Models of Biological Sequences	$479,481
Bravo, H., PI McLellan, S., Co-PI	Wisconsin Groundwater Coordinating Council	Groundwater Beach Dynamics and Contribution to the Pollution of Great Lakes Coastal Waters	$97,083
Bravo, H., PI Waples, J., Co-PI	National Science Foundation	Y-90/Sr-90 Disequilibria: A New Method for Determining Water Age in a Drinking Water Distribution System	$357,835
Chen, J.	WiSys Technology Foundation	Nanoscale Corona Discharges	$50,000
Chen, J.	National Science Foundation	SGER: A Novel Gas Sensor with Tin Oxide Nanocrystals Supported on Carbon Nanotubes	$51,266
Chen, J.	Catalyst Grant-UWM Research Foundation	Novel Hybrid Nanomaterials and their Application for Miniaturized Gas/Vapor Sensors	$84,443
Chen, J., PI Gajdardziska-Josifovska, M., Co-PI	National Science Foundation	Collaborative Research: Engineering Miniaturized Gas Sensors with Hybrid Nanostructures	$405,479
Chen, J.	National Science Foundation	CAREER: Manufacture and Advanced Applications of Nanoparticle-Carbon Nanotube Hybrid Structures	$400,000
Cheng, C.	National Science Foundation	CAREER: Algorithmic & Complexity Issues in Stable Matchings, Distinguishing Labelings & Graph Packing and Covering	$535,746
Christensen, E.	National Science Foundation	Collaborative Research: Debromination of PBDEs in Aquatic Sediments	$141,222
Christensen, E.	National Science Foundation	Mechanistic Dose-Response Functions and the Significance of the Slope in Ecotoxicological Assays	$150,095
Dhingra, A.	WiSys Technology Foundation	Optimum Load Estimation Based on Dynamic Strain Measurements	$49,803
Dumitrescu, A.	National Science Foundation	Problems at the Interface Between Ramsey Theory, Combinatorial Geometry & Number Theory	$345,187
Ghorbanpoor, A.	Wisconsin Highway Research Program	Bridge Integrated Analysis and Decision Support System	$40,000
Gong, S., PI Chen, Jian, Co-PI	Catalyst Grant-UWM Research Foundation	High-Dielectric-Constant Nanotube-Polymer Composites	$50,000
Gong, S., Co-PI Chen, Jian, PI	Catalyst Grant-UWM Research Foundation	Active Liquid Crystalline Elastomer-Carbon Nanotube Nanocomposites	$60,000
Gong, S.	National Science Foundation	Novel Multi-Arm Star Amphiphilic Block Copolymers	$80,081

Data Source: Graduate School Reports

Proposals Submitted
July 1, 2007– January 31, 2008

PI/Co-PI	Sponsor	Title	Amount
Gong, S.	U.S. Dept. of Defense	Multifunctional Drug Nanocarrier for Breast Cancer Therapy	$110,100
Gong, S.	National Science Foundation	Bionanocomposite Components with a Solid Skin/Foamed Core Structure Manufactured via a Supercritical Fluid Assisted Co-Injection Molding Process	$219,980
Goyal, M.	Catalyst Grant-UWM Research Foundation	Exploiting Devise Asymmetry in IEEE 802.15.4 to Enhance Reliability	$78,588
Goyal, M.	National Science Foundation	CAREER: Research and Education in Zigbee/802.15.4 Based Wireless Sensor Networks	$431,133
Hanson, G.	RF Nano Corporation	Carbon Nanotube Antennas	$39,646
Horowitz, A.	Hawaii Dept. of Transportation/ University of Hawaii	Project-Level Traffic Forecast Guidelines	$135,556
Horowitz, A.	National Center for Freight & Infrastructure Research & Education	CFIRE Partner Grant	$100,000
Hosseini, H., PI Reisel, J., Co-PI	National Science Foundation	Educating Tomorrow's Engineers and Computer Scientists (ETECS)	$599,766
Jang, J.	Catalyst Grant-UWM Research Foundation	A Reference Model for the Implementation of BPEL-Based WFMS for Semiconductor Production	$62,720
Jang, J.	WiSys Technology Foundation	On-Time Service for Distributed Areas: Dynamic Vehicle Routing with Time Window Constraints	$49,930
Jen, T.C.	WiSys Technology Foundation	CMP Slurry Condition Monitoring Using Shockwave Focusing Technology	$50,000
Klemer, D.	WiSys Technology Foundation	In-Vivo Power Generation for Implanted Electronic Devices	$49,847
Klemer, D., PI Chen, J., Co-PI	Catalyst Grant-UWM Research Foundation	Microwave Biosensors Based on Organic Semiconductors with Gold Nanoparticle-Labeled Antibodies	$75,684
Kouklin, N.	DARPA/MTO	Efficient Multi-Spectral Light Sensors and Detectors Based on Single-Walled Carbon Nanotubes	$135,000
Kouklin, N., Co-PI Yakovlev, V., PI	National Science Foundation	UV Raman Microscope for Research & Education in Engineering, Physics, Chemistry, and Biology	$355,992
Law, C.T., PI Yu, D., Co-PI	Catalyst Grant-UWM Research Foundation	Fiber Optical Sensors and Fault Detection Schemes for Power Systems	$77,510
Law, C.T., PI Yu, D., Co-PI	National Science Foundation	Fiber Optics-Based Sensing Network for Detection of Power System Faults	$482,174
Li, J. (Cluster Director) Scanes, C., PI	National Science Foundation	Alliances for Graduate Education and the Professoriate	$785,810
Li, Y., PI Nasiri, A., Co-PI	Catalyst Grant-UWM Research Foundation	Integrated Prognostics for Motion Control Systems	$74,879
Li ,Y.	Honda Research Institute	Trip-Based Optimal Power Management of Plug-In Hybrid Electric Vehicles	$50,000
Li, Y.	WiSys Technology Foundation	Trip-Based Optimal Power Management of Plug-In Hybrid Service Trucks	$50,000

Data Source: CEAS Grants Database

Proposals Submitted
July 1, 2007— January 31, 2008

PI/Co-PI	Sponsor	Title	Amount
Li, Y.	California Energy Commission	Maximizing Energy Capture of Variable-Speed Wind Turbines with Multivariable Extremum Seeking Control	$99,999
Li, Y.	California Energy Commission	Efficient and Reliable Operation of Economizer Using Extremum Seeking Control	$99,996
Li, Y.	National Science Foundation	GOALI: Efficient and Reliable Operation of Economizer Using Extremum Seeking Control	$128,191
Li, Y.	National Science Foundation	CAREER: Information Driven Globally Optimal Power Management for Hybrid Vehicles	$440,661
Li, Y., PI Consi, T., Co-PI	National Science Foundation	A Walking ROV	$256,444
Liao, Q.	Space & Naval Warfare Systems Center	Empirical Studies of Release Rates of Munition Constituents from Breached Shells	$73,411
Liao, Q., Co-PI Bootsma, H., PI	Great Lakes Fisheries Trust	Impacts of Dreissenids and Round Gobies on Energy Flow and Trophic Structure in Lake Michigan	$213,963
Liao, Q., Co-PI Bootsma, H., PI	Wisconsin Coastal Management Program	A Management Model to Link Coastal Water Quality and Land Use	$72,664
Liao, Q., Co-PI Bootsma, H., PI	Sea Grant Institute	Impacts of Dreissenids and Round Gobies on Energy Flow and Trophic Structure	$227,234
McRoy, S., PI Lang, N., Co-PI	National Science Foundation	III-CXT: Identifying Argument Relations to Support Machine-Aided Synthesis of Complex Information	$859,120
McRoy, S., Co-PI Yu, H., PI	National Science Foundation	Investigating and Annotating Discourse Connectivity in Biomedical Text	$3,000,000
Misra, D.	Catalyst Grant-UWM Research Foundation	Investigations on the Electrical Characterization of Selected Food Materials for Developing RF Sensors	$62,465
Naik, T., PI Kraus, R., Co-PI	Electric Power Research Institute	Recycling Spray Drier Absorber Products in Cement and Concrete Applications	$79,968
Naik, T., PI Kraus, R., Co-PI	National Science Foundation	Carbon Dioxide Sequestration in Cementitious Products and Education Technology Transfer	$49,900
Naik, T., PI Kraus, R., Co-PI	Electric Power Research Institute	Recycling of Spray Dryer Absorber Products in Cement and Concrete Applications	$152,999
Nasiri, A.	National Science Foundation	In Vivo Low and Medium Power Generation for Implanted Biomedical Devices	$297,788
Nasiri, A.	National Science Foundation	CAREER: Modular Infrastructure for Future Streamlined Distributed Generation Systems With Significant Share of Renewable Energy	$577,438
Pickering-Reyna, B.	Wisconsin Alliance for Minority Participation	Engineering and Computer Science Explorations I	$30,934
Pickering-Reyna, B.	Wisconsin Alliance for Minority Participation	Engineering and Computer Science Explorations III	$22,700
Reisel, J., PI Munson, E., Co-PI	National Science Foundation	Fostering Opportunities foR Tomorrow's Engineers (FORTE)	$1,989,483
Rohatgi, P.	Catalyst Grant-UWM Research Foundation	Advanced Micro and Nanocomposites for Electrical Contact and Thermal Management Applications	$74,841
Rohatgi, P.	National Science Foundation	Synthesis and Processing of Multifunctional, Smart, and Self-Healing Nanocomposites	$25,241,646

Data Source: CEAS Grants Database

Proposals Submitted

July 1, 2007– January 31, 2008

PI/Co-PI	Sponsor	Title	Amount
Rohatgi, P.	U.S. Army Research Laboratory	Synthesis and Processing of Advanced Materials	$99,727
Rohatgi, P.	U.S. Army Research Laboratory	Design, Synthesis, Processing and Characterization of Advanced Materials	$19,427,270
Sobolev, K., PI Kouklin, N., Co-PI	National Science Foundation	Nano-Engineered Eco-Cement (NEEC) Materials Based on Locally Available By-Products	$350,442
Tabatabai, H., PI Gorbanpoor, A., Co-PI	Wisconsin Highway Research Program	Evaluation of Methods of Rebar Protection, Spall Prevention and Repair Techniques on Concrete Girders	$30,000
Wang, W., PI Zhang, J., Co-PI	Catalyst Grant-UWM Research Foundation	Integrated Circuit Health Monitoring and Lifetime Prediction Technique	$74,991
Ying, L., Co-PI Ramos, J., PI	WiSys Technology Foundation	High Resolution Dynamic Contrast Enhanced Magnetic Resonance Imaging of Cancer	$37,653
Ying, L.	National Science Foundation	CAREER: High Resolution Dynamic Contrast-Enhanced Magnetic Resonance Imaging	$507,266
Yu, D., PI Adel, N., Co-PI	We Energies	Multidisciplinary Wind Energy Research at the University of Wisconsin-Milwaukee	$75,000
Zhang, H.	American Diabetes Association	Functional Imaging of Diabetic Retinopathy	$66,950
Zhang, H.	DARPA	Functional Photoacoustic Imaging of Retinal Vessels	$158,186
Zhao, T., PI Zhang, J., Co-PI	Catalyst Grant-UWM Research Foundation	New Techniques for Enterprise Document Search	$74,834
		TOTAL SUBMITTED	**$80,864,801**

Data Source: CEAS Grants Database

New UWM Effort Certification Process

UWM, in collaboration with UW-Madison and UW-Extension, has launched a new effort reporting system to replace the current Personnel Activity Reporting (PAR) system used by all three institutions. The new Effort Certification and Reporting Technology (ECRT) system is Web-based and a significant improvement from the paper PAR forms.

The PAR system was launched more than 24 years ago. Since then, federal requirements pertaining to effort have evolved significantly, but our technology has not evolved at the same rate. To improve our ability to comply with federal requirements, we have upgraded our systems and business processes.

Faculty and staff can sign into ECRT with their UWM PantherID from anywhere in the world. The Web-based software is easy to use and fully compliant with current federal regulations. It frees us from having to route paper documents, and it improves our ability to track certification completeness and identify situations that may need follow-up. Certification is required for effort on all *federal and non-federal* sponsored projects.

Faculty, academic staff, graduate students, and post-doctoral trainees will *not* receive any more PAR forms. All faculty and staff *except for classified staff* will certify effort twice per year, for six months at a time.

The new effort periods for *all* faculty, academic staff, graduate students, and post-doctoral trainees are January through June and July through December. Certification for classified staff will continue on a quarterly basis.

For more information about the new ECRT system, visit the Effort Reporting Overview on the UWM Research Services and Administration Web site at www.effort.uwm.edu.