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Office of Research and Sponsored Programs

Spring 2009

ORSP Research Newsletter - Spring 2009

Office of Research and Sponsored Programs

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Research Facts:

- With more than \$30M in external research funding, UNO is behind only LSU and Tulane in Louisiana
- The SPAWAR funding vehicle contract (\$50M over 5 years) is the second largest research contract in UNO history.
- The UNO Research and Technology Park is home to over 20 companies and governmental entities employing over 1000 people.

Meet the New Vice Chancellor...

Dr. Scott L. Whittenburg is the new Vice Chancellor for Research and Dean of the Graduate School, effective July 1. Dr. Whittenburg is a University Research Professor in the Department of Chemistry and previously was the Associate Vice Chancellor for Assessment and Institutional Effectiveness. Prior to that appointment he was the Associate Vice Chancellor of Academic Affairs for Fiscal Administration.

Dr. Whittenburg joined the University as an Assistant Professor in 1979. He was promoted to Full Professor in 1989 and University Research Professor in 2003. His

research is in the area of application of computers and parallel architectures to modeling of chemical systems. His most recent work has been in the computation of the magnetic properties of nanoparticles, and in Brownian Dynamic simulations of the directed self-assembly of nanoparticles into functional three-dimensional structures. Dr. Whittenburg is a member of the Board of Regents EPSCoR Committee, the Louisiana Optical Network Initiative (LONI) Advisory Board, the CREST Executive Board and the UNO Foundation and Research and Technology Park Boards.



Scott L. Whittenburg, Vice
Chancellor for Research and
Dean of the Graduate School

Summer Research Program:

The Office of Research and Sponsored Programs, along with the University Senate is pleased to announce the new Summer Research Program (SRP).

The SRP has three subprograms; Creative Endeavors Opportunity (CEO), Stimulating Competitive Research (SCoRe) and Summer Undergraduate Experience (SUE).

The goal of the CEO program is to increase research and creative activity on campus, and to provide support for faculty to launch programs of research, scholarship, exhibition or performance that will ultimately result in intellectual productivity.

The goal of the SCoRe award would be to increase extramural sponsored research activity and as such the expectation is that the award will enhance the re-

searcher's capacity to acquire future outside funding.

The SUE program supports research or scholarly experiences for UNO undergraduates in cooperation with a faculty advisor.

The CEO and SCoRe programs begin Summer, 2009 while the SUE program begins Summer, 2010. More information can be found at <https://sharepoint.uno.edu/research/srp>.

The SRP program is administered by Elizabeth Gordon.

Summer 2009 Awardees: (CEO) Olivier Bourderionnet, Erik Hansen, Matthew Jacobsmeier, Pia Kostner, Daniel Lewis, Rachel Luft, John McGowan-Hartman, Kyeong Sam Min, Mary Mitchell, Michael Mizell-Nelson, John Overton, Louis Paradise, Edward Petersen, Anne Rioux, Daniel Rule, Jeffrey Schaffer, Juliana

Starr, Elizabeth Steeby; (SCoRe) Nicola Anthony, Brian Beabout, Charles Bell, Edit Bourgeois, Huimin Chen, D'Lane Compton, Renia Ehrenfeucht, Royhan Gani, David Mobley, Marty O'Connell, Pierre Poudeu, Barney Rees, Elizabeth Stein, Guijun Wang.



Elizabeth Gordon
Pre Award Research
Administrator
CERM Building 450
(504) 280-6669
etgordon@uno.edu

Research Awards– 1/1/09 thru 6/30/09

ADMINISTRATION

BATES, LYNETTE
LAVENDER, WILLIAM
WALSH, KENNETH
WHITTENBURG, SCOTT
WHITTENBURG, SCOTT

U.S. DEPT OF ED
LEH
SPAWAR
SPAWAR
SPAWAR

University of New Orleans Classic Upward Bound
Dogs in My Life: The Photographs of John Tibule Mendes
Quick Compliance Tool Suite
Data Center Conceptual Design
Veterans Affairs (VA) Scheduling

COLLEGE OF BUSINESS ADMINISTRATION

MIESTCHOVICH, IVAN

RPC

Economic Impact of the Bioscience and Healthcare Sectors

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT

BEDFORD, APRIL
FLYNN, LINDA
PERRY, ANDRE M
THOMAS, PAULETTE
THOMAS, PAULETTE
THOMAS, PAULETTE

LOUISIANA STATE UNIV
U.S. DEPT OF ED
URBAN LEAGUE OFGNO
JEFFERSON PARISH PUB
JEFFERSON PARISH PUB
ST. CHARLES PARISH PUB

Project Recovery Early Reading First Initiative
Louisiana Early Education Program (LEEP)
Urban League Program Development and Research Proj
Monitoring and Technical Assistance for CBITS
Jefferson Parish RTI/PBS PAM Project
Responsive to Intervention – Pupil Assistance Model

COLLEGE OF ENGINEERING

CHARALAMPIDIS, DIMITRIOS
CHEN, HUIMIN
DONG, PINGSHA
KURA, BHASKAR
KURA, BHASKAR
KURA, BHASKAR
KURA, BHASKAR
LI, XIAO RONG
LI, XIAO RONG
MORRISSEY, GEORGE

NSF
DCM RESEARCH RESOURCE
PRESSURE VESSEL RES
PORT OF NEW ORLEANS
CITY OF KENNER
HIGHWAY 90, LLC
CITY OF KENNER
DHS
NAVAL OCEANOGRAPHIC
TEXTRON MARINE

Collaborative Research: An Integrative Course and Laboratory
An Integrated Constellation Sensor Simulation Environment
Prediction of Residual Stresses and Analysis of L-PWHT
Online Report Management System (ORMS)
Sustainable Environmental Solutions through Engineering Project 2
Landfill Odor Control Management
Sustainable Environmental Solutions through Engineering Project 1
Coordinated Search and Surveillance by a UAV Team
Design, Analysis, and Testing of Kalman Filter for Underwater
Model Testing Comparison of the Performance of Three Candidate

COLLEGE OF LIBERAL ARTS

AMDAL, JAMES
ASHAR, ASAF
DIXON, NANCY
DUFOR, WENDEL
FIELDS, BILLY
GLADSTONE, DAVID
JAYAWARDANA, WIJEPALA
LASKA, SHIRLEY
LASKA, SHIRLEY
LASKA, SHIRLEY
LASKA, SHIRLEY
LODHI, MAHTAB
MASAKOWSKI, STEPHEN
NELSON, MARLA
STUFFLEBEAM, ROBERT

LOUISIANA STATE UNIV
NATHAN ASSOCIATES
LEH
JEFFERSON PARISH
GREGORY C. RIGAMER
FRENCH EMBASSY
LAKE PROVIDENCE PORT
FORD FOUNDATION
FEMA
GOVERNOR'S COASTAL ACT
LOUISIANA STATE UNIV
NOAA
LOYOLA UNIVERSITY
UNIV OF PENNSYLVANIA
ILLINOIS STATE UNIV

University Transportation Center
The Plataforma Logistica del Istmo de Tehuantepec Project
Putting PRIME TIME in New Orleans Public Schools
Implementation of the Jefferson Parish comprehensive trans. plan
GCR and Associates, Inc. Graduate Student Internship
Embassy of France in the United States and UNO Partnership
Market Opportunities and Infrastructure Needs Study for Port
Stafford Act Study Proposal
Repetitive Flood Loss Reduction Project for Louisiana/Post Katrina
Morganza to the Gulf Technical Review Panel Participation
Growing the Recovery/Rebuilding Web Site and Education/Outreach
Gulf of Mexico Coastal Geo-Spatial Information Support System
New Orleans Music, Entertainment and Educational Consortium
MOU University of Pennsylvania -Rockefeller Foundation
The Mind Project's Cutting Edge Health Science Initiative

COLLEGE OF SCIENCES

ANTHONY, NICOLA
BETHEL, MATTHEW
BILAR, DANIEL
CAI, YANG
IOUP, GEORGE
IOUP, GEORGE
IOUP, GEORGE
KULP, MARK
LI, LINXIONG
LIEBO, STANLEY
MARTEL, MICHELLE
MAYGARDEN, DINAH
OCONNOR, CHARLES
PURI, ASHOK
REED, DENISE
REED, DENISE
REED, DENISE
REED, DENISE
REED, DENISE
REED, DENISE
RICK, STEVEN
RICK, STEVEN
ROUSSEV, VASSIL
ROUSSEV, VASSIL
ROUSSEV, VASSIL
ROUSSEV, VASSIL
SCHLUCHTER, WENDY
SCHLUCHTER, WENDY
SIMMONS, WILLIAM
SPINU, LEONARD
STOKES, KEVIN
STOKES, KEVIN
SUMMA, CHRISTOPHER
TARR, MATTHEW
TAYLOR, CHRISTOPHER
TRUDELL, MARK
WINTERS-HILT,
ZHOU, WEILIE
ZHU, DONGXIAO

NSF
MISS-ALA SEA GRANT CONS
SPAWAR
CHILDREN'S HOSPITAL
NAVAL RESEARCH LAB
UNIV OF SOUTHERN MISS
NASA
UNIV OF SOUTHERN MISS
U.S. DEPT OF AGRICULTURE
LOUISIANA STATE UNIV
BOARD OF REGENTS
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DARPA
BOARD OF REGENTS
HALCROW INC.
LUMCON
RAND CORPORATION
U.S. GEOLOGICAL SURVEY
STATE OF LOUISIANA
ESSEX PARTNERSHIP
NSF
TULANE UNIVERSITY
NAVAL POSTGRADUATE
NATIONAL PARK SERVICE
SPAWAR
SPAWAR
NSF
NSF
NSF
NSF
NANOHMICS, INC
NANOHMICS, INC
CHILDREN'S HOSPITAL
NSF
CHILDREN'S HOSPITAL
ST. CHARLES PHARMA
CHILDREN'S HOSPITAL
AMERICAN CHEMICAL SOC
CHILDREN'S HOSPITAL

Fine-scale Spatial Genetics Analysis of Environmental Variables
Development of New Geospatial Technology/Traditional Eco
Application of Inverse Maximum Entropy Principles in Information
Spring Semester Salary and Fringe
Configuration, Assessment and Evaluation of Coastal Ocean
University of New Orleans Participation in LADC SCS07
Continuation of IPA (Interagency Personnel Act) Assignment
Recent Sedimentation and Stratigraphy of the Penobscot
Inferring Cotton Fiber Length Distribution from HVI Testing
Sensitivity of Spermatosoa from mice of different strains to different
Restoration of Department Psychology Clinic
Understanding Coastal Communities and WetlandResources
Nanoscale Engineering of Multiferoic Hybrid Composites
Louisiana Alliance for Minority Participation (LAMP) Phase III
Provide Technical Review and Input into the Dev of Terrebone
Gulf Restoration in an Uncertain Future
OCPR Plan FY10
Delta Regional Ecosystem Restoration Implementation Plan
Morganza to the Gulf Technical Review Panel Participation
Scientific Evaluation for BDCP
The Contribution of Water to Protein-ligand Binding and Flexibility
Collaborative Research for the Design and Fabrication of Microscale
Scalade Data Fingerprint for Large Forensic Data Sets
Scalade Data Fingerprint for Large Forensic Data Sets
Cyber Defense of Enterprise Networks
Security Assessment of Cloud Computing Vendor Offerings
Biosynthesis and Assembly of Phycobiliproteins in Cyanobacteria
CAREER: Elucidation of the Biosynthetic and Degradative Pathways
Collaborative Research: An Isotope Ratio Mass Spectrometer
SGER: Local Probing of Magnetization Switching
Compact Night Vision Focal Array Cooling Using FlexTEC
Conformable Thermoelectric Device for Waste Heat Scavenging
Spring 2009 Salary and Tuition for Subhashini Puttangunta
Ternary metal-cyclodextrin-guest complexes in aqueous solution
Taylor Summer Salary Professional Service Agreement
Synthesis of [14C]-SCP-123
SWH Summer Professional Services Agreement
Direct Growth of Type II Core/Shell Nanowire Array on TCO
Zhu Summer Salary Professional Service Agreement

METROPOLITAN COLLEGE

DRICHTA, Carl
MICHELET, Denise

STATE OF LOUISIANA
U.S. DEPT OF INTERIOR

Metro Medicaid Technical Services Contract
Minerals Management Service Information Transfer Meetings

Board of Regents Support Fund Awards:

Congratulations to the following faculty who received awards from the BoR Support Fund this year:

Enhancement-

Paul Schilling, Mechanical Engineering

Golden Richard, Computer Science

Connie Atkinson, History

Michelle Martel, Psychology

Research Competitiveness -

Charles Bell, Biological Sciences

Graduate Fellows -

John Wiley, Chemistry

Diversity Fellowships -

Elizabeth Sigler, Graduate School

ATLAS-

Irvin Mayfield, Music

Searching for Research Funding? Check out I.R.I.S.

IRIS (Illinois Researcher Information Service) is a research funding database that is maintained by the University of Illinois, Champaign-Urbana. IRIS allows researchers to define their funding searches by research keywords and other parameters. The entire UNO community has access to this database of more than 8,000 federal and private research funding opportunities in every field – from arts to zoology. The Office of Research & Sponsored Programs pays for this fee based service, which is available to internet users on campus. Check it out at: <http://www.library.illinois.edu/iris/>

Professional Development

This past semester the Office of Research continued its program of holding professional development sessions. The topics for these sessions included Award Closeout, Proposal Writing, Budgeting, Subcontracts, and others. Next semester we will offer most of these topics as well as new topics. The dates, times and subject will be posted to the Office of Research sharepoint site once finalized. Continue to check the site for updates and register on-line for the opportunities. If you have any suggestions for future opportunities, please contact Carol Mitton at extension 5546 or cmitton@uno.edu.

Get Your Speedkey Early

This past summer the Office of Research started the sharepoint version of the Advanced Project/Grant ID number request form. This form allows for the assignment of the project/grant number and speed key before an award is fully executed. With the early assignment of the number and speed key, the PI is able to properly charge expenses to the project/grant number from the start date. This will minimize cost transfers and change in source 101s. More information on this form can be obtained from our sharepoint site (link: [Home - Research](#)) or contact our office at extension 6836.

Let's Jam!

The Office of Research has held numerous Jam Sessions so far. Topics ranged from Science to Education to Liberal Arts to Public Assistance. The speakers included Dr. Mark Kulp and Dr. Mike Miner (EES); Dr. Andre Perry (Charter Schools); Dr. Shirley Laska and Dr. Monica Farris (CHART); Ken Zangla, Rose Angelocci, and Virginia Gay

(TRAC); Dr. Nicola Anthony (Biology); and Dr. Denise Reed (PIES). All of the sessions were informative and interesting. If you have not attended one, you are missing out on a great way to find out what is going on at UNO. The sessions will begin again in the fall.

If you would like to schedule a session to discuss your work, please contact Carol Mitton at extension 5546 or cmitton@uno.edu. This is a great opportunity to showcase your work. The Office of Research will handle all of the details to schedule and announce the event.

"Research is what I am doing when I don't know what I am doing." Werner von Braun

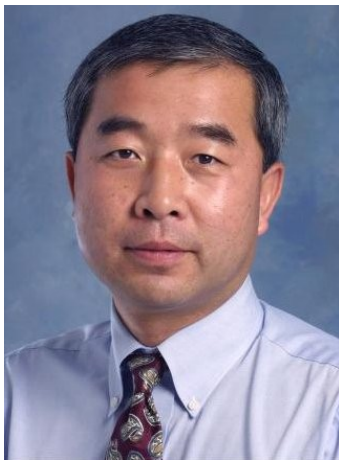
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Want to win a **\$100 gift certificate** for the UNO Bookstore?!!!!
This is your chance! The Office of Research and Sponsored Programs is looking for someone to demonstrate their artistic talent and create a logo for our office. The logo will be placed on our website, office announcements, pens, etc.

Please send the logo to Nadia Zambrano at nzambran@uno.edu before September 1, 2009. Our judges will decide on the winning entry and announce it in the fall semester newsletter.

Show us your talent!

Faculty Focus



Pingsha Dong, Ph.D.
Director, Center for Advanced Marine Structures and Fabrication (CAMSF)

The Office of Research and Sponsored Programs welcomes Dr. Pingsha Dong as the Head of the School of Naval Architecture, occupying the Northrop Grumman Endowed Chair in Shipbuilding and Engineering. He traveled a long road before arriving at UNO in August of 2008. Born in Dalian, China, his early education was interrupted by China's Cultural Revolution when he was relocated into the countryside for re-education. Young Dong circumvented the restrictions of censorship by disguising two texts, which his father had scavenged for him, as Mao's Little Red Book, and read the physics and math books into the night. His feigned devotion to the party earned him the rare opportunity to attend college, the Harbin Institute of Technology in China, to learn the art and science of welding. Dong went on to earn his MS in Welding Engineering there. He then attended the University of Michigan where he was awarded a Masters degree and a PhD in Mechanical Engineering.

Teaching

Before coming to New Orleans from Columbus, Ohio, Dr. Dong taught at the Edison Welding Institute and Ohio State University, supervising graduate students and developing courses based on his work. In 1997, he joined the prestigious Battelle Memorial Institute as the Technical Director for the Center for Welded Structures, attaining its highest technical position as one of only eight Senior Research Leaders (from over 25,000 employees worldwide).

When he joined the faculty of UNO, Dr. Dong brought with him a strong desire to introduce new generations of naval architects and engineers to the exploration of the best design and construction. "These future engineers will be facing the same issues," said Dr. Dong. He describes New Orleans as having one of the two best environments for naval engineering in the country.

Research

Dr. Dong has been a pioneer in the prediction of fatigue life of welded joints; until he and his team at Battelle introduced the computational model, Verity, the projection of the life span of a weld was guess-

work at best. Engineers had to rely on empirical methods based on past experience. Industries such as Caterpillar, ChevronTexaco and Ford Motor Company have embraced this method, saving millions of dollars that had previously been used for repetitive, and inaccurate, stress testing. In 2003, the Society of Automotive Engineers declared this model the most important engineering advance of that year, awarding him the Henry Ford II Distinguished Award for Excellence in Automotive Engineering.

Pingsha Dong has received numerous other awards, and has authored over 150 scholarly articles in peer-reviewed archive journals. In addition, he contributes to this field as an editor or reviewer for a number of international journals.

His research interests continue to include techniques for the mitigation of residual stress and distortion and methods in the fatigue and fracture of welded structures. Dr. Dong's leadership in the School of Naval Architecture is a wonderful addition to the College of Engineering and will serve UNO well in continuing its tradition of excellence.