

Research Highlights

A Publication of the Office of Research and Sponsored Programs

FALL 2002

Renovations, New Staff at the Office of Research and Sponsored Programs

The Office of Research and Sponsored Programs has undergone more than a simple spring cleaning this season. We have cleaned, renovated and expanded! The reception area has been moved to the front hall, creating more office space and a new, more accommodating area for visitors to wait.

Our front entrance has switched from the west side of the building

(the Graduate School entrance) to the main, north entrance of Old Chemistry. As well as more work space for our staff, the renovations have allowed us the opportunity to create a conference room that will be shared with the Graduate School and the addition of new workstations for our student workers. Come by and see our new surroundings and meet our new staff!

Aletha McDonald, Sponsored Programs Coordinator

Aletha is from West, MS and recently graduated with a BBA specializing in MIS.



From L to R: Will Gorham, Aletha McDonald, Linda Sperath, Tricia Pierre, Karen Martin, Ginger Walton

Linda Sperath, Program Development Specialist

Linda came to Ole Miss last summer from Murray, Kentucky, where she worked in the Office of Sponsored Programs at Murray State University. Her husband, Albert Sperath, is Director of University Museums.

Ginger Walton, Accountant/ Operations Manager

Ginger has been on campus for nine years. Her previous job was with Delta RSI. She is married and has a daughter, Tinisha, in college.

Tricia Pierre, Project Coordinator

Tricia began working as project coordinator for Dr. Alice Clark in November. She has worked on campus since



The new front desk in Old Chemistry

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1996. Tricia holds a Masters Degree in Business Administration.

Will Gorham, Communications Specialist

Will came to Ole Miss in January after working for two years in the United States Senate in Washington, D.C.

Karen Martin, Senior Secretary

Karen graduated from Ole Miss in June 2001 with a BA in English. She is from Corinth.

DEADLINES!

NATIONAL SCIENCE FOUNDATION

Please note: NSF Directorate and Division general grant deadlines usually fall in March and September. For specific dates, please check the website of the particular division to which you would like to apply.

For a complete list of NSF deadlines, please visit <http://www.nsf.gov/home/deadline/deadline.htm>

August 21—NSF 02-132

Data and Applications Security (DAS) Program Announcement (Computer/Information Sciences)

September 13—NSF 02-104

Opportunities for Enhancing Diversity in the Geosciences (OEDG)
(Geosciences)

September 15—NSF 02-136

Research Experiences for Undergraduates (Biology, Computer/ Information Sciences, Crosscutting Programs, Education, Engineering, Geosciences, Math/Physical Sciences, NSF-wide, Polar Programs, Social/Behavioral Sciences)

NATIONAL INSTITUTES OF HEALTH

For a complete list of NIH deadlines, please visit <http://grants1.nih.gov/grants/funding/submission/schedule.htm>.

October 1—New Research Grants, Conferences, and Research Career Awards.

October 1—*All* (new, competing, revised, and supplemental) Program Project and Center Grants

For more NIH Standard receipt Dates, please see <http://grants.nih.gov/grants/funding/submission/schedule.htm>

MISSISSIPPI HUMANITIES COUNCIL

<http://www.ihl.state.ms.us/mhc/grants1.html>

NATIONAL ENDOWMENT FOR THE HUMANITIES

<http://www.neh.gov/grants/grants.html>

FULBRIGHT SCHOLAR PROGRAM

www.cies.org

USA-Patriot Act

Last year, President Bush signed PL 107-56, *Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001*, also known as The USA-PATRIOT ACT.

This law may affect procedures and policy for university researchers and administrators.

For more information on the USA-PATRIOT ACT, see <http://www.ins.usdoj.gov/graphics/lawsregs/patriot.pdf>

PIs PLEASE NOTE:

- Need travel money? Be sure to ask *before* you go!
- Transmittal Sheets *must* be done in advance.
- Please send copies of final notices of all unfunded proposals to the Office of Research and Sponsored Programs.

Faculty Research Program Grants— Spring 2002

Gregory Schirmer

Professor, English

An Anthology of Verse Translation from Irish to English

John O'Haver

Assistant Professor, Chemical Engineering

The North Mississippi GK-12 Project

Jason Ritchie

Assistant Professor, Chemistry and Biochemistry

New Solid Electrolyte Materials

Andrew Jameson

Assistant Professor, Health, Exercise Science and
Recreation Management

*Effects of Joint Cryotherapy on Lower Extremity Kinematics
in Landing*

Christopher McCurdy

Assistant Professor, Medicinal Chemistry

Design and Synthesis of ORL-1 Receptor Ligands

Michael Repka

Assistant Professor, Pharmaceutics

*Trans-Nail Patch Matrix System for Delivery of Antifungal
Medicaments*

Bradley Robinson

Assistant Professor, Music

Charles Ives: A Life Portrait in Song

Deborah Gochfeld

Research Scientist, National Center for Natural Products
Research

Antimicrobial Activity of Scleractinian Corals

Recent Research Events

“Geomatics 2002: Building for Mississippi’s Future,” a forum sponsored by the Geomatics Coordinating Council was held earlier this spring in Jackson, MS. The GCC was organized in 2001 for the purpose of forming and implementing a coherent strategy for Mississippi to develop and promote its remote sensing and geomatics industry. The forum was attended by nearly 200 representatives from academia and industry.

The UM recently hosted a Regional Workshop for the Office of Ocean Exploration, a new directive

of the National Oceanic and Atmospheric Administration. The 2-day workshop addressed needs, opportunities, and priorities for research in the Gulf of Mexico. Items identified will be used to further define the nation’s ocean exploration priorities.

A group of UM scientists spent Spring Break in a Central American, tropical paradise. They were all participants in a \$2 million project titled “Partnership for Drug Discovery” sponsored by the National Undersea Research Program, a division of NOAA.

The project’s goals are to identify bioactive marine natural products from the world’s second longest barrier reef system, and to provide the baseline environmental data to ensure protection of the reef and its associated marine environs.

Collaborators are from UM’s National Center for Natural Products Research, the Center for Marine Resources and Environmental Technology, the Geoinformatics Center, the Law Center, and the departments of Biology and Pharmacognosy.

WORD FROM THE SPONSORS

NIH Releases Data Sharing Guidelines

The March 8 issue of *Science* magazine reports, "The National Institutes of Health (NIH) has released long-awaited draft guidelines on data sharing. Worried that taxpayer-funded researchers might hoard data to the detriment of science, NIH officials are asking potential grantees to propose how they plan to share the fruits of their labor. NIH says it may provide extra cash to researchers who need help assembling publicly accessible databases or creating other distribution tools. But the policy draft (grants2.nih.gov/grants/policy/data_sharing/index.htm) emphasizes that the government has no wish to stand in the way of patenting potentially valuable discoveries, giving scientists up to 60 days to keep secrets while legal papers are finished. NIH is asking for comment by 1 June, with implementation by 1 January 2003."

Full Application Scanning Underway at NIH

The Electronic Research Administration (eRA) now digitally scans all NIH grant applications received by the Center for Scientific Review (CSR). This conversion of paper documents to electronic images is an interim step in eRA's federally mandated goal of accepting electronic grant applications by FY2003. The scanning initiative has no impact on the number of paper copies an applicant submits; an original application and five copies are required.

CD-ROMs are generated for reviewers, supporting easier aggregation of information across files. The primary reviewer also receives a paper version of each application. As demonstrated by pilot projects in which eRA collaborated during the past two years, scanning dramatically reduces the costs of labor, mailing, and storage.

Also at NIH

As part of the federally mandated transition to electronic forms and submission, NIH will discontinue mailing preprinted Non-Competing Grant Progress Report (PHS 2590) Face Pages later this year. NIH will continue to provide pre-printed Face Pages for awards with start dates through November 2002. Because NIH mails Face Pages four months in advance, the last mailing will occur in early August. This two-month extension from the original end date will provide grantees and NIH staff with additional time to transition to the new business practices.

NSF Places Renewed Emphasis on Review Criteria

Beginning January 1, 2002, the National Science Foundation began placing renewed emphasis on its review criteria in submitted proposals. NSF uses two criteria for scientific review: the Intellectual Merit criterion and the Broader Impacts criterion. Please see the NSF Grant Proposal Guide for a full description of these criteria (<http://www.nsf.gov/cgi-bin/getpub?gpg>).

Both criteria must be explicitly

Dr. James J. Reidy Receives ORAU Outstanding Leadership Award

In February, Dr. James J. Reidy, Professor of Physics, was selected to receive the Outstanding Leadership Award of 2002 from Oak Ridge Associated Universities.

The award is given to faculty or administrators from member institutions who have demonstrated sustained leadership and support of ORAU activities. It includes a \$10,000 grant to support a conference or symposium on a topic of Dr. Reidy's choice. We congratulate Dr. Reidy on this well deserved and exceptional award!



Dr. Reidy with his ORAU Award

addressed in both the Project Summary and Project Description sections of any NSF proposal. The NSF reserves the right to automatically reject any proposal that does not meet these requirements.

If you are planning to submit a proposal to the NSF, please be sure to familiarize yourself with the review criteria and incorporate them properly in your proposal.

Sigma Xi Graduate & Undergraduate Student Annual Research Poster Symposium

This year's symposium featured 48 projects presented by students, and 7 category winners. Congratulations to these students!

Supriya Bavadekar

Department of Pharmacology

Advisor: Dr. Dennis Feller

"Binding Affinities of Newly Synthesized Isosteric Phentolamine Analogs on Human alpha-1 and alpha-2-Adrenoceptors"

HEALTH AND SOCIAL SCIENCE

Nichola C. Garbett

Department of Chemistry

Advisor: Dr. David Graves

"The Sequence and Structural Selectivity of Nucleic Acid Binding of the Natural Product Anti-Cancer Agent Ellipticine"

CHEMISTRY

Sara Crockett

Department of Pharmacognosy

Advisor: Dr. Ikhlas A. Khan

"Evaluation of Genetic and Phytochemical Diversity Within and Among American Ginseng (*Panax Quinquefolius*) Populations"

BIOLOGY

Elizabeth Johnson

Department of Geology and Geological Engineering

Advisor: Dr. Gregory Easson

"Conceptual Hydrogeologic Models for the Eastern Snake River Plain, Idaho"

GEOLOGY

Patrick Jackson

Department of Computer and Information Science

Advisor: Dr. Dawn Wilkins

"Building Extraction using Neuro-Fuzzy Pattern Recognition with Feature Detecting Structures"

MATH & COMPUTER SCIENCE

Guiping Zheng

Department of Electrical Engineering

Advisor: Dr. Charles E. Smith

"Wideband Bow-Tie Aperture Antenna for RF Sensor Applications"

ENGINEERING I

Suneela Prodduturi

Department of Pharmaceutics

Advisor: Dr. Mikael A. Repka

"Bioadhesive and Chemical Properties of Hydroxy Propyl Cellulose Hot-Melt Extruded Films Containing Nystatin and Clotrimazole"

ENGINEERING II

NEW RATES FOR GRANTS AND CONTRACTS

New rates for fringe benefits and graduate student tuition are effective July 1, 2002. These rates should be used immediately on all grant proposals in process. Indirect cost rates are the same for the next fiscal year.

The new fringe benefit rate for grants and contracts is 24.6 percent.

Graduate student tuition for in-state students to be charged to all proposals is \$1,958 per semester.

The University of Mississippi



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Thank you for reading *Research Highlights*, the quarterly newsletter of the Office of Research and Sponsored Programs. The online *Research Highlights*, available at <http://www.olemiss.edu/depts/research/highlights>, provides hotlinks to all URLs and e-mail.

We welcome your comments on this publication and suggestions for future issues. Please contact Will Gorham at wsgorham@olemiss.edu.