IUPUI INDIANA UNIVERSITY–PURDUE UNIVERSITY INDIANAPOLIS

Research Enterprise

If you have a news item or recent noteworthy research-related achievement that you would like to

March 20, 2009

INSIDE THIS ISSUE:

MESSAGE FROM THE VICE CHANCELLOR FOR RESEARCH

Dear Colleagues,

I would like to extend a special invitation to each of you to participate in the April 24, 2009, IUPUI Research Day. Nobel Laureate Leon Lederman will be the keynote speaker at 1:00 pm, in Lecture Hall, room 101. Dr. Lederman's presentation, entitled, "Knowing How Science Works for Scientists and Citizens," will be of interest to a broad audience. This presentation will be followed by a reception, and poster and paper presentations by our faculty scholars/researchers, in the Lecture Hall building, covering groundbreaking research and scholarly activities conducted on the IUPUI campus. Also, there will be informational booths for all of the major units which provide resources and programs in

Vice Chancellor Kody Varahramyan

support of research and scholarly activity at IUPUI. Thus, Research Day also provides an excellent opportunity for all of us to become better informed about the wide range of available services and programs supportive of research and scholarly activity. Moreover, the networking opportunities will allow participants to identify new collaborators and lay the foundation for new research partnerships. For more details about the many Research Day activities, please go to http://research.iupui.edu/events/researchday2009/ or download the printable PDF flyer. Questions can be directed to Etta Ward at emward@iupui.edu or 317.278.8427.

Kody Varahramyan
Vice Chancellor for Research

ANNOUNCEMENTS

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA) TO VISIT IUPUI: On April 3, 2009, the IUPUI Office of the Vice Chancellor for Research will host Dr. Robert Leheny, Acting Director of Defense Advanced Research Projects Agency (DARPA), who will present information on the current programs and funding opportunities available at DARPA. Dr. Leheny's presentation will take place at 9:00 am, in the University Library Lilly Auditorium. To reserve a seat, please RSVP with Etta Ward at emward@iupui.edu or 317.278.8427. DARPA is the central research and development organization for the U.S. Department of Defense (DOD).   Its research covers a spectrum of scientific disciplines, including biology, medicine, computer science, chemistry, physics, engineering, mathematics, material sciences, social sciences, neuroscience, and more.

DEAN OF FACULTIES CALLS FOR RISE COURSE DEVELOPMENT GRANT PROPOSALS: Dr. Uday Sukhatme, the Dean of Faculties, is committed to increasing course offerings that respond to the RISE to the IUPUI Challenge. Faculty members are encouraged to apply for up to $2500 in summer support to develop a new course or redesign an existing course in line with RISE criteria. Future enrollment in the course will be considered when reviewing proposals. Full-time faculty members (including full-time lecturers) from all academic units at IUPUI are welcome to apply. Support of department Chair or Dean must be demonstrated in application materials.

Submit two copies of the application form and a letter of support for the grant from your department chair or dean by 5:00 pm on April 1, 2009 to Kristine Grefsheim, AO 126. After committee review, notification will be made by April 15, 2009. Please direct questions and concerns to: Mary Fisher, mlfisher@iupui.edu. For grant application forms, and additional information regarding the RISE initiative, visit the RISE homepage at http://www.iupui.edu/administration/acad_affairs/rise/.

NEW IU WEBSITE AVAILABLE FOR INFORMATION ON FEDERAL STIMULUS FUNDING SUPPORTIVE OF RESEARCH AND SCHOLALRY ACTIVITY: The Stimulus Program recently passed by Congress, officially named the American Recovery and Reinvestment Act (ARRA) contains very significant funds, allocated to NIH, NSF, DOE, and other federal agencies, for support of research. The Office of Research Administration (ORA), in cooperation with the IU Office for Government Relations, the Office of the Vice Chancellor for Research at IUPUI and the Office of the Vice Provost for Research at IUB, has created a new website to comprehensively provide timely information about the ARRA funding programs supportive of research.

This new site provides links to key federal agencies receiving ARRA funds to support research.   This information, as well as agency announcements, will be posted regularly to this site, providing an easily accessed bridge to research funding opportunities. Please go to http://www.researchadmin.iu.edu/stimulus.html to monitor opportunities in your areas of interest. There is also a calendar of deadlines for the research programs at the given agencies, which can be found at http://www.researchadmin.iu.edu/stimulus-updates/stim-calendar.html.

FEATURE STORY

Herron School of Art and Design Conducts Research in the Community

Irvington, founded in 1870, is Marion County's largest historic district. The community has grown organically through the years, resulting in mixed residential and commercial space. After the addition of a plasma donation center immediately adjacent to a residential street, an Irvington community resident perceived crime rates increasing in the nearby area. Instead of accepting this as the only possible perspective and problem, a team of nine Visual Communication seniors from Herron School of Art and Design, with the guidance of faculty member Young Bok Hong, chose to explore and research other possibilities and opportunities within this diverse community.

Student Working on Context Map

Spending time in the community, the Herron researchers identified three patron groups that could provide insight into the situation: area residents, nearby business owners and plasma center donors. The team created three separate context maps, exploring and understanding the relationships between different types of patrons and the community itself. They created specific user research tools for each set of patrons: meditative journals for community residents, interviews with business owners, and surveys for plasma center donors. The resulting research showed not one single problem, but a cluster of problems including a lack of sense of community, poor communication, and poor zoning.

Recognizing that one solution would not address all issues, a series of creative solutions were designed under the umbrella "Irvington as a Living Museum." The team's finished proposal included a four pronged approach: utilizing storytelling to create community awareness, a community way-finding system to identify neighborhood boundaries, a community center to be created in a previous plasma donation center and community events that would bring the three patron groups together. The students' proposal, including their research data and proposed solutions, has been presented to the Irvington Community Council.

To read more about Herron School of Art and Design visit www.herron.iupui.edu.

CENTER SPOTLIGHT

Polis Center Spearheads Effort to Prepare Midwestern and Southern States for Pre-disaster Planning Mandate

Owen County (Town of Spencer) Indiana HAZUS-MH Flood Risk Analysis

When spring arrives in Indiana, flooding usually is not far behind, with widespread property damage and large economic losses a common result. The Federal Emergency Management Agency (FEMA) Disaster Mitigation Act of 2000 requires all incorporated communities to have a risk management plan in place to be eligible for mitigation assistance. Over the past five years, The Polis Center (Polis), an applied research unit of the IU School of Liberal Arts, has been using its expertise in Geographic Information Systems (GIS) and its knowledge of local communities to help Indiana and several other Midwestern and southern states meet this federal mandate.

In February 2009, the center received over $1.4 million in two grants from the Indiana Department of Homeland Security to continue its work. These grants are the latest in a series of contracts obtained by the center for disaster mitigation planning. By the end of these projects, Polis will have assisted 82 of the state's 92 counties in meeting federal requirements.

According to David Bodenhamer, Director of the Polis Center, "Even though FEMA created a GIS-based loss estimation tool, HAZUS-MH, for use in the planning process, the software comes with national data that doesn't always reflect local conditions accurately." Dr. Bodenhamer adds that the process, which requires a high degree of participation from local groups, was difficult to implement. The Polis team of Dave Coats, John Buechler, and Kevin Mickey made significant improvements in both areas. First, it applied lessons learned by Polis in its other large-scale collaborations to develop a model now used in several other states. The team also tapped the center's expertise in local data and GIS to enhance significantly the loss estimates produced by HAZUS-MH. As a consequence, Polis has extended its work to Illinois, Wisconsin, South Carolina, Florida, and Chicago, among other jurisdictions. Kevin Mickey, the center's director for professional development and training, is now widely recognized as one of the nation's leading trainers in this area, offering classes in over twenty states in 2008 alone.

The center's expertise and its collaborative skills led FEMA to seek Polis help in summer 2008 to estimate risks associated with a 100-year flood in 31 states. Polis earlier spearheaded formation of the Coalition of Universities for Spatial Information Science (CUSIS)—IUPUI, IUB, Purdue, Ball State, Indiana State, and Vincennes—and it turned to this group, which the center coordinates, to run this first-ever analysis. The FEMA-related projects have led to a major research project with IU-Bloomington to develop real-time systems for loss estimation from flooding. Working with the IU Community Grid Lab, the center received one of three national awards from the US Geological Survey under the National Spatial Infrastructure Cooperative Agreements Program to use Service Oriented Architecture (SOA) for a dynamic loss estimation system.

"In its 20 years of existence as a self-supported center, Polis has generated over $55 million in external grants and contracts. In addition to its work in disaster planning and mitigation, the center also has expertise in community information systems, health geographics, and spatial humanities," says Dr. Bodenhamer.

UPDATES

RECOVERY ACT OF 2009: NIH REVIEW CRITERIA, SCORING SYSTEM, AND SUSPENSION OF APPEALS PROCESS: The enhanced review criteria issued in NOT-OD-09-025 will be effective for all applications for research grants submitted for Recovery Act funding opportunity announcements (FOAs). These enhanced criteria may not be applicable for some other types of applications (e.g., construction grants). Review criteria for these other programs will be described in the FOAs. The new scoring system announced in NOT-OD-09-024 will be effective for all applications that are submitted for Recovery Act FOAs. The new scoring system will utilize a nine-point rating scale (1 = exceptional; 9 = poor). The new scale will be applied to both the overall impact/priority score and the scores for individual review criteria. In addition, the NIH will suspend the appeals procedures (NIH Guide: APPEALS OF INITIAL SCIENTIFIC PEER REVIEW) for investigators responding to Recovery Act FOAs, due to the time sensitivity of the Recovery Act granting process.

THE OMNIBUS APPROPRIATIONS ACT OF 2009 MAKES THE NIH PUBLIC ACCESS POLICY PERMANENT: In accordance with Division F Section 217 of PL 111-8 (Omnibus Appropriations Act, 2009), the NIH Public Access Policy (NOT-OD-08-033) remains a legislative mandate for FY 2009 and beyond. The law states that the Director of the National Institutes of Health (NIH) shall require in the current fiscal year and thereafter that all investigators funded by the NIH submit or have submitted for them to the National Library of Medicine's PubMed Central an electronic version of their final, peer-reviewed manuscripts upon acceptance for publication, to be made publicly available no later than 12 months after the official date of publication: Provided, That the NIH shall implement the public access policy in a manner consistent with copyright law. Compliance with this Policy remains a statutory requirement and a term and condition of the grant award and cooperative agreement, in accordance with the NIH Grants Policy Statement. For contracts, NIH includes this requirement in all R&D solicitations and awards under Section H, Special Contract Requirements, in accordance with the Uniform Contract Format. For more information, go to http://publicaccess.nih.gov/.

CURRENT EXTERNAL FUNDING OPPORTUNITIES

Funding opportunities in this section include selected current grant announcements from federal agencies for **new initiatives and changes to existing programs**. Announcements with limited scope are not listed here but are, instead, sent directly to IUPUI School Deans. For comprehensive coverage of funding opportunities please use the on-line search tools listed below.

NATIONAL INSTITUTES OF HEALTH

RECOVERY ACT LIMITED COMPETITION: NIH CHALLENGE GRANTS IN HEALTH AND SCIENCE RESEARCH (RC1): NIH has designated at least $200 million for a new initiative called the **NIH Challenge Grants in Health and Science Research** (http://grants.nih.gov/grants/funding/challenge_award/). This new program will support research on topic areas which address specific scientific and health research challenges in biomedical and behavioral research that would benefit from significant 2-year jumpstart funds. NIH Institute and Centers have selected specific Challenge Topics within each of the Challenge Areas. Challenge areas: Behavior, Behavioral Change, and Prevention; Bioethics; Biomarker Discovery and Validation; Clinical Research; Comparative Effectiveness Research (CER); Enabling Technologies; Enhancing Clinical Trials; Genomics; Health Disparities; Information Technology for Processing Health Care Data; Regenerative Medicine; Science, Technology, Engineering and Mathematics Education (STEM); Smart Biomaterials – Theranostics; Stem Cells; Translational Science Grants are limited to $500,000/yr for 2 years. Application deadline is April 27, 2009.

WOMEN'S MENTAL HEALTH AND SEX/GENDER DIFFERENCES RESEARCH (R01): The NIMH supports research grant applications that fulfill the objectives of the Mental Health Strategic Plan: http://www.nimh.nih.gov/about/strategic-planning-reports/index.shtml. In addition, in relation to sex and gender differences, the NIMH has three major areas for research emphasis related to sex and gender differences: basic and clinical neuroscience; epidemiology and risk factors; and intervention and services research. Standard dates apply, please see http://grants1.nih.gov/grants/funding/submissionschedule.htm
http://grants.nih.gov/grants/guide/pa-files/PA-09-108.html

MECHANISMS OF ALCOHOL AND NICOTINE CO-DEPENDENCE (R01): The focus is on neurobiological and behavioral mechanisms contributing to concurrent alcohol and nicotine use and dependence. Standard application dates apply. http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward http://grants.nih.gov/grants/guide/pa-files/PA-09-099.html

NATIONAL SCIENCE FOUNDATION

INTERNATIONAL SCIENCE AND ENGINEERING VISUALIZATION CHALLENGE: The National Science Foundation (NSF) and *Science* created the International Science & Engineering Visualization Challenge to celebrate that grand tradition--and to encourage its continued growth. The spirit of the competition is for communicating science, engineering and technology for education and journalistic purposes. View last year's winners. Judges appointed by the National Science Foundation and the journal *Science* will select winners in each of five categories: photographs, illustrations, informational graphics, interactive media and non-interactive media. The winners will be published in a special section of the journal *Science* and *Science Online* and on the NSF Web site. One of the winning entries will be on the front cover of *Science*. Submission deadline is September 15, 2009. http://www.nsf.gov/news/special_reports/scivis/challenge.jsp

NSF ENVIRONMENT, SOCIETY, AND THE ECONOMY (ESE): The Directorate for Social, Behavioral, and Economic Sciences (SBE) and the Directorate for Geosciences (GEO) seek to increase collaboration between the geosciences and the social and behavioral sciences by augmenting funding for interdisciplinary research related to Environment, Society, and the Economy. Projects are expected to involve researchers in the geosciences and social and behavioral sciences, but they may also include other disciplines. Prospective topics of interest in the general area of Environment, Society, and the Economy include, but are not limited Decision-making strategies related to ongoing or predicted global, regional, and local environmental changes; Economic and geosciences evaluation of technology and practices linked to climate change; Impacts and adaptation of economic systems; Pathways to successful application of geoscience research findings; Development and implementation of mitigation strategies within political and economic constraints; Interplay of environmental change and inequality of income, access to resources, etc.; Role of incentives in human behavior; Politics and economics of resource agreements; Environmental change and its impact on the evolution of human behavior; and Capacity building.

Target and deadline dates for applicable programs may be found at http://www.nsf. gov/dir/index.jsp?org=geo and http://www.nsf.gov/dir/index.jsp?org=sbe.

DEPARTMENT OF DEFENSE

DEPARTMENT OF DEFENSE CONGRESSIONALLY DIRECTED MEDICAL RESEARCH:
The Fiscal Year 2009 (FY09) Defense Appropriation Act (Public Law 110-329) provides research funding for the following programs managed by the Department of Defense office of Congressionally Directed Medical Research Programs (CDMRP):

- Breast Cancer Research Program $*150M*;
- *Prostate Cancer Research Program $80M*;
- *Ovarian Cancer Research Program $20M*;
- Neurofibromatosis Research Program $10M;
- Tuberous Sclerosis Complex Research Program $6M;
- Autism Research Program $8M;
- Gulf War Illness Research Program $8M.

Additional programs managed by CDMR include: Peer Reviewed Orthopedic Research Program $61M; Peer Reviewed Spinal Cord Research Program $35M; Peer Reviewed Lung Cancer Research Program $20M; Peer Reviewed Cancer Research Program $16M; Amyotrophic Lateral Sclerosis Research Program $5M; Bone Marrow Failure Research Program $5M; Multiple Sclerosis Research Program $5M.

FOUNDATIONS

ROBERT WOOD JOHNSON FOUNDATION ACTIVE LIVING RESEARCH AND HEALTHY EATING RESEARCH RAPID RESPONSE GRANTS: The focus is on changes in policies or environments with the potential to reach children who are at highest risk for obesity, including African-American, Latino, Native American, Asian-American and Pacific Islander children (ages 3 to 18) who live in low-income communities or communities with limited access to affordable healthy foods and/or safe opportunities for physical activity. Research studies may focus on one or both sides of the energy balance equation—on physical activity (including sedentary behavior), healthy eating or both. Required letter of intent deadline is July 17, 2009. http://www.rwjf.org/applications/solicited/cfp.jsp?ID=20681&c=OTC-RSS&attr=CP

OVCR INTERNAL GRANT DEADLINES

RESEARCH SUPPORT FUNDS GRANT (RSFG): The IUPUI Research Support Funds Grant (RSFG) program is designed to enhance the research mission of IUPUI by supporting research projects and scholarly activities that are sustainable through external funding. The next Research Support Fund Grant (RSFG) application deadline is April 2, 2009. For grant guidelines and application forms, go to http://research. iupui.edu/funding/ and click on the appropriate side bar.

INTERNATIONAL DEVELOPMENT FUND GRANT (IDF): The IUPUI International Development Fund (IDF) grant program is designed to stimulate international activities that will lead to external funding. The next IDF grant application deadline is April 15, 2009. For grant guidelines and application forms go to http://research.iupui. edu/funding/ and click on the appropriate side bar.

OVCR WORKSHOPS AND EVENTS

Proposal Budget Preparation

When: Tuesday, March 24, 2009 | 10:00 AM-11:30 AM
Where: University Library Room 1116

Learn how to prepare a basic budget. Participants will learn what's allowable and unallowable according to federal and university guidelines. The budget justification and its importance in the overall proposal will also be discussed.

Register at http://crl.iupui.edu/events/eventsRegistration.asp?id=1482.

This event is co-sponsored by the office of the Vice Chancellor for Research and Office of Research Administration.

Scientific Grant Proposal Development

When: Thursday, March 26, 2009 | 01:00 PM-03:00 PM
Where: University Library, Room 1126

This session will focus on the essentials of building a successful scientific grant proposal. A variety of topics from key components of proposals to basic budgets, writing style to interpreting agency guidelines, will be covered.

Register at http://crl.iupui.edu/events/eventsRegistration.asp?id=1500.

Finding Funding

When: Wednesday, April 08, 2009 | 02:00 PM-03:30 PM
Where: University Library Room 0106

This session will provide an overview of the various types of external funding sources, identify tools to locate funding opportunities, explain how to design a funding search, and demonstrate a couple of knowledge management systems that contain thousands of funding opportunities available by the university subscription.

Register at http://crl.iupui.edu/events/eventsRegistration.asp?id=1473.

OTHER WORKSHOPS AND EVENTS

SCHOLARSHIP AT LUNCH TIME (SALT) SERIES

The SALT event series is aimed at showcasing interdisciplinary research efforts, promoting IUPUI research center activities, and encouraging new collaborative partnerships. This highly interactive event provides an opportunity to meet fellow researches in an informal setting on a monthly basis at the Faculty Club. Presentations are limited to 20-25 minutes to allow ample time for discussion. Presentation Title: "Artists Look at Science: The Strange and Beautiful"

When: Thursday, April 9, 2009, 12:00 PM-1:00 PM
Where: University Faculty Club

Presenters: Jean Robertson and Craig McDaniel, Herron School of Art and Design

A project will be presented that explores how contemporary visual artists are responding to new research and methodologies in the sciences, particularly the life sciences. Art images will be shown such as sculptures of transgenic creatures (part-human and part-animal). Participants will be encouraged to share their thoughts on issues raised by these pieces of art. http://faa.iupui.edu/newFaa/SALT.asp.

This event is sponsored by The University Faculty Club of Indianapolis

IDENTIFYING FUNDING OPPORTUNITIES

On-line search tools are available to IUPUI investigators who are interested in identifying funding opportunities in their areas of interest.

Community of Science (COS): COS is a primary on-line search tool for identifying funding opportunities. To take advantage of this tool, register at http://www.cos.com/login/join.shtml. Once you have completed the short registration process, you can personalize your search by selecting the option entitled "launch your workbench". You can access federal, local, corporate, foundation, nonprofit and other funding opportunities using key terms and save the results of up to 20 searches and have them delivered to you weekly via email.

National Institutes of Health (NIH) "NIH Guide": To take advantage of this search tool, register at http://grants.nih.gov/grants/guide/listserv.htm. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

National Science Foundation (NSF) "MyNSF": To take advantage of this search tool, register at http://www.nsf.gov/mynsf/. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

Federal Business Opportunities "FedBizOpps": FedBizOpps is the single government point-of-entry for Federal government procurement opportunities over $25,000. To take advantage of this search tool, visit http://vsearch1.fbo.gov/servlet/SearchServlet. Opportunities found at this site include, but are not limited to,

presolicitations and special notices for research and service contracts for specific projects and some national centers and surveys that would not be found in Grants. gov and may not be found in the Community of Science.

Limited Submission Funding Opportunities: Occasionally a funding agency places a limitation on the number of proposals that can be submitted from a campus or university system. For a description of the upcoming "limited submission" funding opportunities, as well as guidelines and application forms, go to: http://ovpr.indiana. edu/limsub/limsub.asp or contact Etta Ward in the IUPUI Office of the Vice Chancellor for Research: emward@iupui.edu or 317.278.8427.

Special Handling: The Special Handling list was created in order to communicate donor restrictions and/or preferences for managing solicitation requests from Indiana University. The list reflects special relationships that exist between donors and the university and includes corporations and foundations that the President's office wishes to review prior to submission in order to coordinate Indiana University's requests to these donors. The Special Handling List was compiled and is maintained by the Indiana University Foundation office of Corporate and Foundation Relations and is provided to OVPR for distribution. Questions regarding this list can be directed Bobbi Bosch at 317-278-5648 or bsbosch@indiana.edu.
IU Authentication is required to view the following attachments:

- IU/IUF Corporation / Foundation Special Handling List
- Principal Gifts Review Template

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