

# Research Enterprise

The Office of the Vice Chancellor for Research (OVCR) publishes the RESEARCH ENTERPRISE to keep the academic community and the community at large informed about research activities, opportunities and development on the IUPUI campus.

**Research Offices:**

Development

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**Editor:**  
Etta Ward

**Contributing Writer:**  
Shawna Woodall

**Layout:**  
Erik Scull

If you have a news item or recent noteworthy research-related achievement that you would like to share, please see the

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## ANNOUNCEMENTS

### Responding to Limited Submission and Special Handling Opportunities

Many federal agencies and foundations offer grants, awards and fellowships that limit the number of applications that can come from one institution or require special handling. In order to comply with agency and foundation guidelines and increase the chances of Indiana University (IU) succeeding in such limited submissions and special handling opportunities, IU policies and procedures are in place and are utilized by the Office of the Vice Chancellor for Research and other IU research offices to facilitate internal coordination and competitions.

Individuals interested in responding to limited submission opportunities must inform the Office of the Vice Chancellor for Research about their intent to apply to a given limited submission opportunity, such that they can be included in the internal review and selection process. Failure to do so may disqualify individuals from consideration for submission to the funding opportunity.

Individuals interested in a limited submission opportunity or have any questions about the internal coordination process, contact Etta Ward at [emward@iupui.edu](mailto:emward@iupui.edu) or 317-278-8427. For a description of upcoming limited submission funding opportunities, as well as guidelines and application forms, go to: <http://ovpr.indiana.edu/lmsub/lmsub.asp>. Please note that this is not a comprehensive list, and that any external funding opportunity that imposes any type of submission limitation is subject to the IU limited submission policy and procedures.

In some cases, the IU leadership may deem it appropriate to implement special handling processes, even if the agency or foundation does not. The Special Handling List is compiled and maintained by the Indiana University Foundation office of

Please be aware that not all news items will be deemed appropriate or timely for publication, but each item will be carefully considered.

Corporate and Foundation Relations. Please contact Bobbi Bosch at 317-278-5648 or [bsbosch@indiana.edu](mailto:bsbosch@indiana.edu), if you have any questions regarding this list. IU Authentication is required to view the following links:

- [IU/IUF Corporation / Foundation Special Handling List](#)
- [Principal Gifts Review Template](#)

### Julie Belz Wins Prestigious Paul Pimsleur Award

Dr. Julie Belz, Associate Professor of English in the School of Liberal Arts, has won the 2009 Paul Pimsleur Award for Research in Foreign Language Education for her article published in *Language Learning & Technology* (citation below). This award is given by the American Council for the Teaching of Foreign Languages (ACTFL) and the Modern Language Journal to the author(s) of an outstanding contribution to research in foreign language or second language education, and is based on the quality of the research and its potential impact on foreign language learning or teaching. The selection committee is co-chaired by a member from the Editorial Boards for the Modern Language Journal and Foreign Language Annals.



Julie Belz, Ph.D.

Nominations for this award come from editors of the top applied linguistics and language journals in the world, including: *Applied Language Learning*, *Applied Linguistics*, *CALICO Journal*, *Canadian Modern Language Review*, *Foreign Language Annals*, *French Review*, *Hispania*, *Japanese Language and Literature*, *Journal of Chinese Language Teachers Association*, *Language Learning*, *Language Learning and Technology*, *Modern Language Journal*, *Studies in Second Language Learning*, *TESOL Quarterly*, and *Unterrichtspraxis* (Teaching German). This is an extremely prestigious award in the fields of language and applied linguistics, and Dr. Belz joins the ranks of many of the top scholars in the field who have also won this award.

*Belz, J. A., & Vyatkina, N. (2008). The pedagogical mediation of a developmental learner corpus for classroom-based language instruction. Language Learning & Technology, 12(3), 98-112.*

### Genevieve Shaker Earns National Honors

Dr. Genevieve Shaker, Associate Director of Development and External Affairs of the IU School of Liberal Arts at IUPUI, is the 2009 recipient of national Bobby Wright Dissertation of the Year Award. This is a prestigious annual competition of the Association for the Study of Higher Education. Dr. Shaker completed the dissertation as a HESA student in fall 2008. She will receive the award in November at the 2009 ASHE conference in Vancouver. The dissertation is entitled: *Off the Track: The Full-time Nontenure-track Faculty Experience in English*.

Additionally, she and colleagues Dr. Nancy Chism (School of Education) and Dr. Megan Palmer (School of Education), are being recognized for their rigorous research and its impact on the field of faculty development with the Robert J. Menges Award for



Genevieve Shaker, Ph.D.

Outstanding Research in Educational Development. Their work, titled, "Understanding and Supporting Full-time Nontenure-track (FTNT) Faculty: A Welcome Change," was one of only three chosen by the Menges Award Selection Committee and will support their presentation at the 34th annual Professional and Organizational Development Network in Higher Education (POD) conference, "Welcoming Change: Generations and Regeneration," held in Houston, Texas, October 28 - November 1, 2009. This award was established in 2000 by POD in recognition of Bob Menges, an honored scholar, whose long years of work and contributions to teaching and learning and faculty development in higher education can be characterized by his spirit of caring consultation, active participation, and rigorous research.

## CENTER SPOTLIGHT

### **Center Advances Research Enterprise through Student Research Development**

The Center for Research and Learning (CRL), associated with the Office of the Vice Chancellor for Research, is dedicated to the advancement of the research enterprise at IUPUI. Its vision is to create and sustain world class programs in inquiry-based student learning through innovative multidisciplinary collaboration and effective mentoring, and promote lifelong active learning and professional development. Its mission is to promote, create, and coordinate, through partnerships within and outside the institution, implementation of innovative inquiry-based learning programs that integrate research and education to provide students with effective pathways for lifelong active learning and professional development.

CRL is organized into four main program areas, identified as Undergraduate Research Programs, Diversity Research Programs, Professional Pathways Programs, and Summer Research Programs. Through these program areas, CRL administers a multitude of internally and externally sponsored programs in support of students in schools and programs from across the IUPUI campus. The following four examples are representative of the range of programs and services provided by CRL:

The Multidisciplinary Undergraduate Research Institute (MURI) facilitates the creation and support of multidisciplinary research teams that include faculty, staff, and students. Each team is focused on a project that is implemented during the academic year or intensively during the summer program. Students have participated on MURI teams with project titles as diverse as *Electrospinning Nanofibers for Stem Cell Culture and Tissue Engineering to Determination of the Sulfur Content in the Functionalized Carbon Black or Fuel Cell Catalysts*.

The Diversity Scholars Research Programs (DSRP) is a performance-based program for academically talented undergraduate students who further contribute to the rich diversity of the IUPUI campus. Students are part of a vibrant community of scholars who become involved immediately in a research setting, and are actively involved in increasingly advanced research tasks in preparation for graduate and professional school studies.

The Preparing Future Faculty program is designed to introduce advanced graduate students and postdoctoral fellows to the full range of knowledge and responsibilities to prepare them for positions in a variety of settings within higher education or other professional settings. As part of a larger effort to expand professional development in graduate education, PFF program objectives are to supplement the academic credentials of our graduate students, enhance marketability of PFF participants, support schools and/or departments in producing more effective and knowledgeable future faculty and provide the best possible preparation for future faculty in

collaboration with each individual's school and/or department.

During the summer the Center for Research and Learning provides a nine-week intensive experience for students from twelve different programs. Students spend about 75% of their time on their research project and 25% of their time attending professional development, social, and cultural activities designed to foster student success.

All of the students who participate in the CRL undergraduate research programs are required to present their research as a poster or oral presentation and write a research paper. At last summer's poster session over 200 students from CRL participated in the well-attended event held at the IUPUI Campus Center.

## FACULTY SPOTLIGHT

### **IUPUI Professor Awarded Large Grant in Federal Stimulus Funding**

*By Shawna Woodall, IUPUI Journalism Student*

Dr. Janice Blum, Associate Professor in Microbiology and Immunobiology, received the largest IU federal stimulus grant to-date, totaling \$3.07 million, for her project "Poxvirus Modulation of Immune Responses." As of September 15, 2009, \$31.9 million of Federal Stimulus funds has been awarded to Indiana University, and 66% awarded to the Indianapolis campus.

Blum and her team will use the grant to further study the poxvirus modulation of immune responses. They began working on the poxvirus vaccinia vaccine to try and understand how immune cells detect and respond to the virus. They believe a better understanding of the effects of the virus on immune cells will allow them to develop an improved vaccine for smallpox and related viruses, new vaccines that could be used to promote the destruction of cancer cells in humans, and as platforms for HIV vaccines. She explains that understanding the interaction of these poxviruses is critical.



Dr. Janice Blum, Ph.D.

"This is a complex project as we plan to study the effects of the virus in the lung and other tissues," says Blum. "The project has allowed us to bring together faculty with expertise in viral immunology, lung immunity and biology, allergic diseases and immune regulation." Blum also has several new technical staff working on the project, graduate students and fellows.

The graduate students will work as a team for some studies to make the most of reagents and resources for their studies. Each student has a few specific research questions they will address which will be the basis for their thesis. These students and fellows will meet with external experts during their visits to campus. Additionally, these student researchers will have several mentors, hold bi-weekly meetings and conduct research presentations.

"Research studies also help us keep up-to-date on the latest technologies, which we can share in our discussion in class," Blum says in reference to how her involvement in research is beneficial for students in the classroom, "and it provides students with a more tangible way to understand the models and theories we present in class. Also, our studies in the laboratory are the best reminder of the importance of ethics and that we need to maintain high standards in all we do."

The research team is a collaborative effort from several laboratories on campus.



including Dr. Ranky Brutkiewicz from the Department of Microbiology and Immunobiology, Dr. Mark Kaplan from the Department of Pediatrics, Dr. David Wilkes from the School of Medicine and Dr. Blum's laboratory from the Department of Microbiology and Immunobiology.

## STUDENT SPOTLIGHT

### Research Opportunities Ignite Student's Passion for Research

*By Shawna Woodall, IUPUI Journalism Student*



Olusola Egunyomi presents his abstract at the summer 2009 poster presentations. To hear more about his research, click play.

It all started with a flyer. "I saw it. I read it, and I said, 'Maybe I can do this'," Olusola Egunyomi said as he points to the bulletin board where the McNair flyer once hung. "I applied. I was interviewed. I was accepted. And boom, that's how my love for research grew."

Five years ago senior Olusola Egunyomi, a Nigeria native studying journalism and international studies, came to Indiana University Purdue University – Indianapolis (IUPUI) by default. He knew someone who lived in the state and after doing some research, decided to attend. "I used to think research was something hard...I used to think that it was a time-consuming job, but research is worth the energy you expend," Egunyomi says. He never saw himself doing research. Now, after his first summer as a McNair scholar in 2008 and as a participant in the Undergraduate Research Opportunities Program (UROP) in 2009, he has been highly motivated by it.

As a McNair Scholar, he has presented at national conferences such as the National Conference for Undergraduate Research (NCUR), giving him the opportunity to hone his oral and poster presentation skills and meet colleagues and experts he would not meet otherwise. The prestige of being a McNair scholar alone, Egunyomi states, places you ten steps ahead of the next person. "It shows that you've done research, been involved in research activities on campus and done some extensive work," describes Egunyomi. "It also shows that you have the hunger and the passion to do research work."

Egunyomi insists that he owes his future career in research to the leaders of the Center for Research and Learning (CRL), who have exposed him awe-inspiring experience. "They've been able to create a path for me," says Egunyomi. "They have been able to open doors for me, and I know it's going to open even more." When describing his mentor, Egunyomi says Dr. William Foley from the School of Public and Environmental Affairs was a wonderful and brilliant guy who was always willing to

help and communicate. "He's been a father figure to me," Egunyomi recalls. "I can always count on him. Whenever I have a problem, I can talk to him."

Since his exposure to research, Egunyomi's career path has changed. Now, he hopes his career will center around his research topics, which explore the impact of U.S. foreign policy and the feasibility of a two-state solution in the Israeli-Palestinian conflict. Egunyomi has already suggested to his peers that they become involved with research. He tells them it's the opportunity of a lifetime and believes it's the kind of experience one probably can't find on another campus, especially with IUPUI's emphasis on the RISE initiative. "Research is part of the core value of the chancellor's dream for this university," Egunyomi says. "And every student should pursue it and explore what IUPUI has to give them."

## TRANSLATIONAL RESEARCH IMPACT

### Research on Water Issues Engages Students of All Ages



Dr. Lenore Tedesco and her team from CEES



Dr. Lenore Tedesco cares a lot about the water we drink and how we can better manage this precious resource. She is an Associate Professor of Earth Sciences and Director of the Center for Earth and Environmental Sciences (CEES) in the School of Science, where she conducts research that addresses regional watershed, water supply and water quality issues with emphasis on algal blooms. Dr. Tedesco has developed an autonomous environmental monitoring network measuring water quality throughout central Indiana. Veolia Water has committed to a long-term partnership in the Center's water resources research efforts to apply these research outcomes to other communities around the world. Additional research interests involve wetland restoration including evaluation of restoration strategies and wetland function. This includes studies of urban riparian reforestation, fen wetlands and on the distribution of anthropogenic pollutants.

Since coming to IUPUI in 1991, Dr. Tedesco has focused her scholarship on a host of environmental issues and mentored students of all ages. She is the recipient of several teaching awards and received a 2002 Governor's Award for Environmental Excellence for her work in education and outreach. Her translational research has resulted in successful school-based programs to get kids excited about their environment and how to keep our water supplies safe and plentiful.

To support children's understanding of and appreciation for clean and healthy

waterways, this research has been translated into Discovering the Science of the Environment, an experiential, inquiry-based, outdoor laboratory focused science education program for 4th-9th grade classes in central Indiana. Utilizing a mobile resource trailer equipped with interactive technology tools, web interface, and GIS mapping capabilities, the DSE program travels to provide free educational programming at school ground natural areas. The program activities are tailored to participating schools' ecosystems, course topics, and age ranges to encourage student engagement in environmental awareness and stewardship.

Dr. Tedesco also engages a number of IUPUI students in her work through the CEES Environmental Service Learning Program. This program works to enhance central Indiana natural areas and protect water resources while providing a rich educational experience for IUPUI students. Last fall, 270 IUPUI undergraduate students from 12 course sections university-wide participated in nine projects with five community partners. Long-standing partnerships with Indy Parks and Recreation, Indianapolis Department of Public Works, and the Central Indiana Land Trust allow for continual work on restoration projects and public awareness activities within key parks and natural areas of the Upper White River Watershed. Activities such as installing native wetland plant species at Southwestway Park, removing invasive exotic honeysuckle in Scott Starling Nature Sanctuary and installing storm drain markers, both on the IUPUI campus and within Indianapolis neighborhoods, are collectively making an important contribution to regional ecological health each semester. Visit [www.cees.iupui.edu/service\\_learning](http://www.cees.iupui.edu/service_learning) to view project locations, activities, and images.

Professor Tedesco's translation of educational models to help people learn about water and its importance for our environment is one example of how IUPUI's faculty members are *translating their research into practice*. Read more about IUPUI's Translational Scholars at [www.trip.iupui.edu](http://www.trip.iupui.edu).

## UPDATES

### New NIH Restructured Application Forms and Instructions

NIH announced that new, restructured versions of the paper PHS 398 and electronic SF 424 (R&R) application packages and instructions will be available by December 2009. Applicants must download and use the new application packages for submissions targeting due dates on or after January 25, 2010 (funding for fiscal year (FY) 2011 and beyond). Changes include significantly shorter page limits and restructured application packages. Please see Notice Number NOT-OD-09-149 for more information: <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-149.html>

## RECENT EXTERNAL FUNDING AWARDS

The Office of the Vice Chancellor for Research recognizes and congratulates all IUPUI faculty and researchers for recent awards received and helping to advance the IUPUI research enterprise. The following highlights those receiving \$100,000 or more in external grants.

### Grants and Awards - September 2009

PI	Agency	Project Title	School	Department	Total
GRANNIS, SHAUN JASON	CENTERS FOR DISEASE CONTROL AND PREVENTION	Indiana Center of Excellence in Public Health Informatics (ICEPHI)	MEDICINE	FAMILY MEDICINE	\$4,829,975
RODRIGUEZ, HENRY	NATIONAL INSTITUTE OF DIABETES & DIGEST & KIDNEY	Type 1 Diabetes TrialNet at Indiana University Clinical Center	MEDICINE	PED-ENDOCRINOLOGY/ DIABETOLOGY	\$4,364,158
PISONI, DAVID B.	NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMM. DIS	Neurocognitive Processes in Deaf Children with Cochlear Implants	MEDICINE	OTOLARYNGOLOGY & H/N SURGERY	\$3,149,157
BLUM, JANICE S.	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	Poxvirus modulation of Immune Responses	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	\$3,072,964
ALKHATIB, GHALIB	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	Host Cell Factors and AIDS Pathogenesis	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	\$1,925,000
CALLAHAN, CHRISTOPHER M.	NATIONAL INSTITUTE ON AGING	Translation Research on Chronic Disease Self-Management	MEDICINE	GENERAL INTERNAL MEDICINE	\$1,918,316
AGARWAL, RAJIV	NATIONAL INSTITUTE OF DIABETES & DIGEST & KIDNEY	Hypertension in Hemodialysis Patients	MEDICINE	NEPHROLOGY	\$1,736,122
XU, XIAO-MING	NATIONAL INSTITUTE NEUROLOGICAL DISORDERS & STROKE	Role of phospholipase A2 in spinal cord secondary injury	MEDICINE	NEUROLOGICAL SURGERY	\$1,684,375
MOLLESTON, EUGENIA P	NATIONAL INSTITUTE OF DIABETES & DIGEST & KIDNEY	Biliary Atresia, Cholestatic Liver Diseases, and Cystic Fibrosis: Indiana University	MEDICINE	PED-GASTROINTESTINAL DISEASES	\$1,618,095
BROXMEYER, HAL E	NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	Bridges to the Doctorate at IU School of Medicine	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	\$1,530,157
TUNE, JOHNATHAN DAVID	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Mechanisms of Coronary Microvascular Dysfunction in Metabolic Syndrome	MEDICINE	CELLULAR & INTEGRATIVE PHYSIOLOGY	\$1,527,109
HSU, ANDREW TOMING	NAVAL SURFACE WARFARE CENTER CRANE DIVISION	Lithium-ION Battery Safety Project	E&T	MECHANICAL ENGINEERING	\$1,469,860



DUNKER,ALAN KEITH	NATIONAL SCIENCE FOUNDATION	DisProt Database: A Central Repository of Information on Intrinsically Disordered Proteins	MEDICINE	THE CENTER FOR BIOINFORMATICS	\$1,425,995
WALCZAK, CLAIRE E	NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	Mechanisms of Spindle Assembly	MEDICINE	MEDICAL SCIENCES PROGRAM	\$1,416,800
OVERHAGE,J. MARC	FOUNDATION FOR THE NATL INST OF HEALTH	Indiana Distributed Partner Database	MEDICINE	GENERAL INTERNAL MEDICINE	\$1,343,567
SCHNEIDER, BRYAN PAUL	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Comprehensive Biomarker Discovery Project for Bevacizumab in Breast Cancer	MEDICINE	HEMATOLOGY/ ONCOLOGY	\$1,319,954
WITZMANN, FRANK A.	NATIONAL INSTITUTE OF ENVIRONMENTAL HLTH SCIENCES	Chemical characterization methodologies and proteomics to assess biological responses to water dispersible carbon nanotube exposure	MEDICINE	CELLULAR & INTEGRATIVE PHYSIOLOGY	\$1,198,981
FIFE,KENNETH HOWARD	UNIVERSITY OF WASHINGTON	Partners Pre-Exposure Prophylaxis (PrEP) Study	MEDICINE	INFECTIOUS DISEASES	\$ 955,598
SHENG, HONGMIAO	NATIONAL INSTITUTE OF DIABETES & DIGEST.& KIDNEY	Targeting Myofibroblast for Intestinal Epithelial Regeneration	MEDICINE	GENERAL SURGERY	\$ 881,731
HASHINO,ERI	NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMM. DIS	Somatic stem cell as vectors to deliver biologically active molecules to the inner ear	MEDICINE	OTOLARYNGOLOGY & H/N SURGERY	\$ 843,333
MARRS,JAMES A.	NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMM. DIS	Signals Regulating SAG Development	SCIENCE	BIOLOGY	\$ 783,008
LEE,WEI-HUA	NATIONAL INSTITUTE OF CHILD HEALTH, HUMAN DEVL.	Novel Mechanisms of Neonatal hypoxic-Ischemic Brain Injury and Repair	MEDICINE	PED-NEONATAL MEDICINE	\$ 749,480
FUEGER, PATRICK THOMAS	NATIONAL INSTITUTE OF DIABETES & DIGEST.& KIDNEY	Mechanisms to Induce Islet Proliferation	MEDICINE	PED-ENDOCRINOLOGY BASIC RES	\$ 747,000
LI,LEI	NATIONAL INSTITUTE OF ENVIRONMENTAL HLTH SCIENCES	Enzyme Catalysis of Toluene Degradation and Unusual DNA Photoproduct Repair	SCIENCE	CHEMISTRY	\$ 746,994
SHEW,MARCIA L	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	HPV Vaccination, Attitudes and Sequential Behaviors in Adolescent Women	MEDICINE	PED-ADOLESCENT MEDICINE	\$ 719,752

LI,LIN	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Test Bio-optical Algorithms for Remote Sensing of Inland Water Quality	SCIENCE	GEOLOGY	\$ 569,821
MCDONALD, BRENNAL CATHLEEN	DARTMOUTH COLLEGE	RCT Methylphenidate & Memory/ Attention Training in TBI	MEDICINE	RADIOLOGY & IMAGING	\$ 382,060
WAITE,GABI NINDL	IMMUNENT BV	Redox Regulation as Proposed Mechanism for the Activation of Immune Cells by Low Frequency Electromagnetic Field (LF EMF) exposure	MEDICINE	IUSM-TERRE HAUTE	\$ 206,689
WHITE, KENNETH E.	GENZYME CORPORATION	FGF23-FGFR interactions to Maintain Phosphate Balance in CKD	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$ 150,000
CHEN, RONGRONG	U.S. ARMY	Micro-Power sources for Sensors Applications	E&T	MECHANICAL ENGINEERING TECH	\$ 150,000
NICOL,GRANT D.	U.S. DEPARTMENT OF DEFENSE	Does the Altered Expression of Ion Channels Give Rise to the Enhanced Excitability of Neurons Isolated from Nf1 +/-Mice?	MEDICINE	PHARMACOLOGY & TOXICOLOGY	\$ 142,698
GRIMES, BRENDA R	U.S. DEPARTMENT OF DEFENSE	Disruption of Centromeric Chromatin as a Cause of Chromosome Instability in Breast Cancer	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$ 115,500
FELDHAUS, CHARLES R.	METROPOLITIAN SCHOOL DISTRICT WASHINGTON TOWNSHIP	University students mentoring elementary students in STEM subjects	E&T	ORG LEADERSHIP & SUPERVISION	\$ 110,936
HUI,SIU LUI	FOUNDATION FOR THE NATL INST OF HEALTH	Indiana Distributed Partner in Methods	MEDICINE	BIOSTATISTICS	\$ 103,685

OVCR INTERNAL GRANT DEADLINES

**SIGNATURE CENTERS INITIATIVE (SCI) ROUND 3 CALL FOR PROPOSALS:** The Office of the Vice Chancellor for Research invites proposals for the Round 3 Signature Centers Initiative (SCI) competition. Initially implemented in 2006, the SCI was developed to create strong research units that are uniquely identifiable with IUPUI. The centers were created as an integral part of the Academic Plan for IUPUI, with the goal that they will lead the way in world-class research and creative activities that will substantially enhance IUPUI's reputation. The proposal submission deadline is January 22, 2010. For more information and to apply, please go to <http://research.iupui.edu/funding/>.

**IUPUI ARTS AND HUMANITIES INTERNAL GRANT (IAHI):** The IAHI Grant Program exists to support campus-wide attainment of excellence in research and creative activity in arts and humanities. It is designed to enhance the research and creative activity mission of IUPUI by supporting research projects and scholarly activities that are conducted by arts and humanities faculty. The first IAHI application deadline is November 2, 2009. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

**DEVELOPING DIVERSE RESEARCHERS WITH INVESTIGATIVE EXPERTISE (DRIVE):** The Developing Diverse Researchers with InVestigative Expertise (DRIVE) program is designed to enhance the diversity and research and creative activity mission of IUPUI. Faculty from underrepresented populations, normally defined as African-American, Latino-American, Native American, Pacific Islanders, and women are particularly encouraged to apply. The next IDF application deadline is October 30, 2009. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

**INTERNATIONAL DEVELOPMENT FUND (IDF) GRANT:** The IDF grant was developed to enhance the international research and scholarly activity focus of the IUPUI academic mission. Generally, the IDF grant serves as venture capital to stimulate additional funding for international research and scholarly activity, which have strong potential to generate indirect cost recovery from extramural sources. The next IDF application deadline is November 15, 2009. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

## OVCR WORKSHOPS AND EVENTS

### National Science Foundation Speaker Series NSF Funding: Learn How...Now!

In an effort to increase NSF funding on the IUPUI campus, the Office of the Vice Chancellor for Research (OVCR) has planned for this academic year a series of four presentations. These presentations will feature NSF Program Directors who have accepted our invitation to visit us at IUPUI. There will be also IUPUI faculty who have been successful at securing NSF funding. Sessions are as follows.

General Overview of NSF Funding – October 26th

NSF Day - Get the Scoop from Program Directors (a full day of opportunities) – November 13th

IUPUI NSF Awardees Share Tips for Success – To be determined

Developing Successful NSF Research Experiences for Undergraduates (REU) Proposals – To be determined

The first session that is scheduled for Monday, October 26th, 3:30 PM – 5:00 PM will be held in the University Library Lilly Auditorium. For more information and to

register, go to <http://research.iupui.edu/events/>. The OVCR will hold ongoing NSF proposal development follow-up group sessions in conjunction with this series. Questions can be directed to Etta Ward at [emward@iupui.edu](mailto:emward@iupui.edu) or 278-8427.

### **Prereqs for Success: Lifecycle of a Grant Proposal**

When: Thursday, December 03, 2009 | 02:00 PM-03:30 PM  
Where: University Library, Room 1126

Presenters: Jean Mercer, Director of Grant Services in the IUPUI Office of Research Administration; and Randy Brutkiewicz, Assistant Dean for Faculty Affairs and Professional Development, IU School of Medicine.

Learn the basics of sponsored programs administration and meet key Sponsored Research Services staff. Participants will also gain insight into the pre-award and post-award processes at IUPUI. This workshop is co-sponsored by the Office of Research Administration

**Register:** <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1739>

### **Faculty Writing Circle (Organizational Meeting)**

When: Wednesday, October 28, 2009 | 12:00 PM-01:30 PM  
Where: University Library, Room 1116

Cosponsored by: Center for Teaching and Learning, Office of the Vice Chancellor for Research and Office for Women

Faculty Writing Circles (FWC's) are small groups of faculty who meet regularly to provide support and feedback about one's scholarly writing. Most groups involve 3-5 participants and provide a consistently scheduled support structure (e.g., weekly, semimonthly, monthly). In FWC's, individuals receive feedback from peers in their discipline (or related disciplines) to enhance their efforts of writing for publication. In addition to receiving feedback on one's writing, research shows that those who write regularly are more productive with respect to scholarly writing (Gray & Birch, 2001; Steinert, McLeod, Liben & Snell, 2008). Writing circles can provide an incentive to be writing on a regular schedule. Because many FWC's involve groups that are interdisciplinary, they can be a valuable way to connect with others on campus. FWC's can also help members hone their skills in communicating about their scholarship to a wide audience.

For the inaugural session of Faculty Writing Circles, the focus will be on individuals interested in participating in circles related to: 1) arts and humanities; 2) health sciences; 3) women's issues; 4) science, technology, engineering and mathematics (STEM); 5) social sciences.

For questions, contact Jennifer Beasley at [jabeasl1@iupui.edu](mailto:jabeasl1@iupui.edu) or 278-9694.

**Register:** [www.ctl.iupui.edu](http://www.ctl.iupui.edu)

### **Community of Science (Find Funding and Promote Your Work)**

When: Thursday, October 24, 2009 | 10:00 AM-11:30 AM  
Where: University Library 0106

Indiana University is a member of the Community of Science (COS). Whether your



work is in the arts or the sciences, COS funding and expertise search tools and services can help support and advance your research and scholarly activity. Learn how to take full advantage of these services and help our institution promote its work. This event is a hands-on open lab session.

**Register:** <http://crl.iupui.edu/events/eventsRegistration.asp?id=1610>

## 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 researchers in an informal setting on a monthly basis at the Faculty Club. The event is open to non-members of the Faculty Club. Due to limited seating it is recommended that you sign-up prior to each scheduled presentation by calling Stephanie at 317-274-7014 or by sending an email to [facclub@iupui.edu](mailto:facclub@iupui.edu). Lunch is a buffet that includes soup, a salad bar, two warm entrees with side dishes, and desert for \$12.90 (includes tax and gratuity).

The following are upcoming presentations.

#### ***Faces and Races in Medicine***

When: Thursday, October 22, 2009 | 12:00 PM-01:00 PM

Presenter: Richard Ward, Ph.D., School of Liberal Arts

Race and ethnicity persist as important constructs in clinical medicine where the terms are frequently confounded, misused and reflect a persistence of typological thinking. Anthropological perspectives on human variation offer a more effective means of understanding and utilizing interpopulational variation as it relates to disease expression, therapeutic success, and treatment. In this study craniofacial anthropometry has been used to study Fetal Alcohol Syndrome (FAS) and in the process has revealed both general diagnostic features as well as what appears to be population specific features. This research supports the argument that there is as much variability within "traditional" racial and ethnic categories as between them.

#### ***The Legacy of Frankenstein: Regenerative Biology and Medicine***

When: Thursday, November 19, 2009 | 12:00 PM-01:00 PM

Presenter: David Stocum, Ph.D., School of Science

Dr. Stocum traces the medical legacy of Frankenstein from the 19th century to today, from the assembly of body parts into a monster, to the regeneration of new tissues and organs. Current methods for replacing tissues and organs damaged by injury or disease, as well as new technologies under development, such as cell transplants and bioartificial tissues and organs, will be presented. A discussion on the bioethical dilemmas regarding the sources of cells to be used will follow.

### Fulbright Workshop for Faculty and Professionals

When: Tuesday, November 10, 2009 | 02:00 PM-04:00 PM

Where: Butler University, Robertson Hall, Johnson Room

Presenter: Andy Riess, Ph.D., Senior Program Officer for Outreach and Communication at the Council for International Exchange of Scholars (CIES) will offer the workshop.

The purpose of this workshop is to explain Fulbright programs for American and visiting faculty and professionals. Special emphasis will be placed on research and lecturing opportunities available in 130 countries around the world. There will be advice on how to make contacts abroad, how to prepare applications and what reviewers are looking for. Further, there will be an exploration of the Fulbright Visiting Scholar programs and the opportunities they offer to American campuses as they consider internationalization, faculty development and student engagement.

To RSVP, please e-mail Dana Ohren ([dohren@butler.edu](mailto:dohren@butler.edu)) by Tuesday, November 3rd. Coffee, tea, hors d'oeuvres and sweets will be provided. *This workshop is sponsored by the Butler Institute for Research and Scholarship (BIRS).*

## 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

#### **Exceptional, Unconventional Research Enabling Knowledge**

**Acceleration (EUREKA)**: The focus is on exceptionally innovative research on novel hypotheses or difficult problems, solutions to which would have an extremely high impact on biomedical or biobehavioral research that is germane to the mission of one or more of the participating NIH Institutes. *Application deadline is November 24, 2009.*

#### **Building Sustainable Community-Linked Infrastructure to Enable Health Science Research**

The focus is on supporting the development, expansion, or reconfiguration of infrastructures needed to facilitate collaboration between academic health centers and community-based organizations for health science research. Such collaboration should transform the way in which health science research is conducted in communities, and accelerate the pace, productivity, dissemination, and implementation of health research; applications that build upon extant collaborative infrastructures supported by other Federal agencies are strongly encouraged. *Application deadline is December 11, 2009.*



## NATIONAL SCIENCE FOUNDATION

**Statistics:** The focus is on research in statistical theory and methods, including research in statistical methods for applications to any domain of science and engineering. *Application deadline is November 7, 2009.*

### **Chemistry of Life Collaborative Research in Computational**

**Neuroscience:** Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding the functions of complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines. *Application deadline is November 17, 2009.*

**Chemistry of Life Processes:** The focus is on novel chemistry in biological systems and the advancement of basic chemical research and transformative technologies through creative applications that address important aspects of life processes. Research of interest to the program includes fundamental chemistry-centered projects at the interface with biology. *Application deadline is November 30, 2009.*

**Chemical Measurement and Imaging Program:** The focus is on chemically-relevant measurement science and imaging, targeting both improved understanding of new and existing methods and development of innovative approaches and instruments. Research areas include but are not limited to sampling and separation science; electrochemistry; spectrometry; frequency- and time-domain spectroscopy; sensors and bioassays; and microscopy. *Application deadline is November 30, 2009.*

**Computational Mathematics:** The focus is on mathematical research in areas of science where computing plays a central and essential role, emphasizing algorithms design, numerical methods and their analysis, and symbolic methods. The prominence of computation in the research is a hallmark of the program. *Application deadline is December 15, 2009.*

**CISE Cross-Cutting Programs: FY 2010:** The focus is on cross-cutting areas that are scientifically timely, and that benefit from the intellectual contributions of researchers with expertise in a number of computing fields and/or sub-fields. The cross-cutting programs for FY 2010 are: Data-intensive Computing; Network Science and Engineering; and Trustworthy Computing. *Application deadline is December 17, 2009.*

**Discovery Research K-12 (DR K-12):** The focus is on proposals that challenge existing assumptions about learning and teaching within or across STEM fields, envision needs of learners in 10-15 years, and consider new and innovative ways to educate students and teachers. Project goals, designs, and working strategies should be informed by prior research and practical experience drawn from all relevant disciplines, while focusing on concepts and skills that are central to STEM education. *Application deadline is January 7, 2010.*

**Building Engineered Complex Systems (BECS):** The Directorate for Engineering (ENG) and the Division of Mathematical Sciences (DMS) in the Directorate for Mathematical and Physical Sciences (MPS) at the National Science Foundation (NSF) are collaborating in this solicitation to provide "seed funding" for small teams of innovative engineers and mathematical scientists (mathematicians or statisticians) to seek and develop a theoretical basis of complex systems, with the aim of developing formal

methods for the design of engineered complex systems. *Application deadline is January 19, 2010.*



## NATIONAL ENDOWMENT FOR THE HUMANITIES

### **NEH America's Historical and Cultural Organizations Planning**

**Grants:** America's Historical and Cultural Organizations grants support projects in the humanities that explore stories, ideas, and beliefs that deepen our understanding of our lives and our world. The Division of Public Programs supports the development of humanities content and interactivity that excite, inform, and stir thoughtful reflection upon culture, identity, and history in creative and new ways. Grants for America's Historical and Cultural Organizations should encourage dialogue, discussion, and civic engagement, and they should foster learning among people of all ages. To that end, the Division of Public Programs urges applicants to consider more than one format for presenting humanities ideas to the public. NEH offers two categories of grants for America's Historical and Cultural Organizations: Planning and Implementation Grants. *Application deadline is January 13, 2010.*

## DEPARTMENT OF HOMELAND SECURITY

### **Broad Agency Announcement - Researching, Creating, Developing, Deploying and Evaluation Innovative Educational Tools, Approaches and Resources to Advance the Intellectual Basis for a National Homeland Security S&T Workforce:**

The focus of this initiative is to research, create, develop, deploy and evaluate innovative educational tools, approaches and resources that will assist with the development of an educated and well trained scientific and technical workforce, representative of the U.S. population that DHS and its partners will need to protect the country in the foreseeable future. Submission of a white paper (8 page limit) required. *Application deadline is February 28, 2010.*

## FOUNDATIONS

### **Bill & Melinda Gates Foundation Round 4 of Grand Challenges**

**Explorations:** The focus is on: Creating New Technologies for Contraception; Creating New Ways to Protect Against Infectious Disease; Creating New Ways to Induce and Measure Mucosal Immunity; Creating Low-Cost Diagnostics for Priority Global Health Conditions. Initial grants will be \$100,000 each, and projects showing promise will have the opportunity to receive additional funding of \$1 million or more. Full descriptions of the new topics and application instructions are available at <http://www.grandchallenges.org/explorations>. *Two (2) page applications are due November 2, 2009.*

Prior approval for submissions to the Bill & Melinda Gates Foundation is required. For "Special Handling" instructions, please visit <http://research.iupui.edu/funding/external.html>.



## Campus Facts

Federal Stimulus money awarded to IU amounted to \$31.9M as of September 15, 2009, of which 66% was awarded to the Indianapolis campus. The largest grant (\$3.07M) was awarded to Janice Blum in the Department of Microbiology and Immunology. <http://www.stimulus.iu.edu/awards/projects/index.shtml>

The IUB campus received more research dollars from the National Science Foundation (NSF) in FY2009 than the total amount requested in proposals submitted to NSF from the IUPUI Campus. Come to one of our NSF Workshops on November 13, 2009 to learn about NSF opportunities and how to make your submissions more competitive. (<http://research.iupui.edu/events/>).

## National Facts

In 2007, Indiana ranked 25th among the states with 47.7 patents per 1000 workers. Idaho (210) led all states.

## 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:

Many federal agencies and foundations offer grants, awards and fellowships that limit the number of applications that can come from one institution or require special handling. In order to comply with agency and foundation guidelines and increase the chances of Indiana University (IU) succeeding in such limited submissions and special

handling opportunities, IU policies and procedures are in place and are utilized by the Office of the Vice Chancellor for Research and other IU research offices to facilitate internal coordination and competitions.

Individuals interested in responding to limited submission opportunities must inform the Office of the Vice Chancellor for Research about their intent to apply to a given limited submission opportunity, such that they can be included in the internal review and selection process. Failure to do so may disqualify individuals from consideration for submission to the funding opportunity.

Individuals interested in a limited submission opportunity or have any questions about the internal coordination process, contact Etta Ward at [emward@iupui.edu](mailto:emward@iupui.edu) or 317-278-8427. For a description of upcoming limited submission funding opportunities, as well as guidelines and application forms, go to: <http://ovpr.indiana.edu/lmsub/lmsub.asp>. Please note that this is not a comprehensive list, and that any external funding opportunity that imposes any type of submission limitation is subject to the IU limited submission policy and procedures.

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. Questions regarding this list can be directed to Bobbi Bosch at 317-278-5648 or [bsbosch@indiana.edu](mailto:bsbosch@indiana.edu).

IU Authentication is required to view the following attachments:  
[IU/IUF Corporation / Foundation Special Handling List](#)  
[Principal Gifts Review Template](#)

Office of the Vice Chancellor for Research - [ovcr@iupui.edu](mailto:ovcr@iupui.edu)  
Indiana University-Purdue University Indianapolis  
755 West Michigan Street, UL1140, Indianapolis, IN 46202-2896  
Phone: (317) 278-8427

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