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FEATURE STORY

IUPUI Centers Receive Distinguished Signature Center Designation

Indiana University – Purdue University Indianapolis (IUPUI) has selected its second cohort of research centers to receive IUPUI Signature Center designation. This recognition is in response to the achievements realized by these centers upon completion of their 3-year funding under the Signature Centers Initiative Grant Program.

"I am very pleased with the success of the Signature Centers Initiative," said Uday Sukhatme, IUPUI Executive Vice Chancellor and Dean of the Faculties. "It is a cornerstone of the IUPUI Academic Plan. It boosts the research infrastructure via substantial seed funding for stimulating new directions of multidisciplinary research. The initiative has played an important role in enhancing research and increased the research funding on the IUPUI campus from about \$260 million in 2006 to over \$400 million in 2010 - an excellent return on investment!"

The selected centers are:

- **Assertive Community Treatment (ACT) Center of Indiana:** This center evaluates the effectiveness of mental health programs and prepares mental health specialists to implement effective interventions that assist families dealing with mental illness. The center also serves as an advocate for public policies that encourage implementation of effective and affordable support services for people with mental illness and their families.

"The ACT Center has been very involved in helping programs across the state to provide the best treatments to help people recover from severe mental illnesses," said Michelle Pensec Salyers, associate professor of psychology and director of the ACT Center. "One of the most recent accomplishments is a cost-effective way to measure how well programs are following a specific model of care that has been very effective. Another big area for us has been developing methods to help reduce staff burnout as mental health workers are experiencing a great deal of pressure in the current economic situation. We are developing tools to help support them and to be able to maintain a happy and healthy workforce."

- **Transportation Active Safety Institute:** This institute advances the use of active systems in automotive safety. Active safety systems can be effective in both preventing crashes and in saving the lives of drivers and passengers involved in accidents. Faculty with expertise in vehicle control, sensor networks, wireless communications, and physiology collaborate to develop new and effective systems that bridge the gap between research and the development of consumer applications that enhance the safety of automobiles.

TASI is the only academic research center in the U.S. dedicated to transportation and vehicle active safety research, said Yaobin Chen, Ph.D., chair and professor, Department of Electrical and Computer Engineering, in Purdue School of Engineering and Technology. By collaborating with its academic and

industry partners, TASI has conducted research projects funded by federal and state agencies as well as industry with more than \$4 million in funding, he added, noting "By using TASI's research capabilities (driving simulator and vehicle active safety system testing facility), TASI faculty, research staff and students have worked on research projects to address critical issues related to driver behavior, teen and older driver safety, impaired driving, driver-vehicle interactions in autonomous driving and cost-benefit analysis for advanced safety systems."

- **Vascular and Cardiac Center for Adult Stem Cell Therapy:** This center conducts multidisciplinary research aimed at repairing and enhancing the function of cardiovascular tissues. Translation of adult stem cell research findings to diseases of the cardiac and vascular systems allows researchers in this center to explore novel approaches to repairing cardiac and vascular damage and improving the function of the vascular system

"We are very pleased that IUPUI has chosen the Vascular and Cardiac Center for Adult Stem Cell Therapy (VC-CAST) as a flagship program, by designating VC-CAST as an IUPUI Signature Center," said Keith L. March, MD, PhD, and professor of Medicine, Physiology, and Biomedical Engineering, and director of VC-CAST. "As one of the leading centers in the world advancing adult stem cells into patient therapies to treat debilitating diseases such as emphysema, diabetes, stroke, Parkinson's disease and heart failure, we are especially excited by the designation because we believe this will help to attract more collaboration, funding and patients interested in participating in critical clinical trials." We are actively working with multiple international collaborators to help patients in Indiana and around the world as quickly as possible," March said.

These three new centers receiving IUPUI Signature Center designation have reached prominence for their unique and distinctive research and scholarly activity. These centers bring to eight the number of the centers that have received IUPUI Signature Center designation.

Three new centers have also been selected out of a pool of 19 applications to receive 3-year funding under the Signature Centers Initiative Grant Program. These centers are:

- **Center for Pancreatic Cancer Research:** The mission of the Center is to promote a better understanding of the critical pathways and molecular mechanisms involved in pancreatic tumor development, to stimulate the consistent and productive exchange of ideas between clinicians and basic scientists, to facilitate external funding for its members, to disseminate information across the Indiana medical and research community, and improve pancreatic cancer patient outcomes. The center, comprised of basic, translational and clinical researchers, represents the continuum of disease research from biological/molecular investigation to clinical trials.
- **Center for Brain Rehabilitation, Advanced Imaging, and Neuroscience:** The research mission of the center is to integrate and further develop neuroimaging and behavioral measurement technologies to provide leading edge integrated interdisciplinary methods for examining the natural evolution, individual differences, and response to rehabilitative interventions in acquired brain injury. The center brings together an interdisciplinary team of clinical researchers to (1) advance basic science and clinical knowledge to the next level of integration, (2) translate the knowledge gained directly into clinical care for improved patient outcomes, and (3) use the newly integrated knowledge to drive the leading edge of future research.
- **Three-Dimensional Imaging of the Craniofacialdental Complex Center:** The primary mission of the center is to develop long term intellectual and financial support for strong, interdisciplinary, imaging studies related to a better understanding and quantification of 3-dimensional normal and abnormal growth, development, function, esthetics and treatment of the hard and soft tissues of the craniofacialdental complex. The secondary mission of the center is to assess the airways of patients with sleep disordered breathing and the responses to therapies. The tertiary mission is to become the regional and national point of information and service for patients and health professionals involved with orthodontic and orthopedic tooth movement, facial esthetics, function, airways, and imaging.

The Signature Centers Initiative was begun in 2006 by Sukhatme to create nationally and internationally recognized research centers that are uniquely identifiable with IUPUI, and make a difference in the real world.

SHOULD WE KNOW?

As we strategically plan to grow the research enterprise at IUPUI, we are continually receiving input from various groups across the campus. However, we realize that there are probably important issues or impediments to research that are "under our radar". We appreciate it when these are brought to our attention and encourage you to submit these to ovcr@iupui.edu.

SERVICES

Research Commercialization

The Office of the Vice Chancellor for Research (OVCR) is committed to strategically advancing at IUPUI world class research and creative activities that address important national and global needs, and through technology transfer and commercialization support the economic development of Indiana and the nation. OVCR staff member Karen White is available to assist campus researchers in effectively reaching the stage to work closely with the Indiana University Research and Technology Corporation (IURTC) in technology transfer and commercialization of their research outcomes.

Ms. White, who has extensive experience with university research commercialization, is delighted about the growth taking place in research commercialization at IUPUI and its impact on economic development and social advancement in and around the state of Indiana. She can be reached at kfwhite@iupui.edu or 274-1083. She is also available during regular drop-in office hours on Thursdays 2-4 pm, for consultation with faculty on intellectual property and research commercialization questions.



Karen White

IU Research Compliance Office Streamlines Study Submission and Review Prioritization Process

In an ongoing effort to increase efficiency and improve customer service to the Indiana University research community, the Research Compliance Office will be implementing new and streamlined updates to the study submission and review prioritization process.

Single Email address for all submissions: Currently there are multiple email addresses for submissions to the Institutional Review Board (IRB) and/or the Human Subjects Office. These addresses were separated by IRB Board or submission type. Effective as of May 31, 2011, all submissions to the IU Human Subjects Office should be sent to one email address, regardless of type or campus. For an interim period, all emails received in the older inboxes will be forwarded to this new email address. The new email address is irb@iu.edu

Updated Prioritization Process: Many of the submissions to the Human Subjects Office contain all the necessary information to be presented to an IRB reviewer or at a full board meeting. However, there are submissions which do not have all of the minimum items necessary for approval by the IRB. In an effort to avoid delay of submissions that are considered initially complete, new prioritization criteria have been established to help expedite these submissions. For example, previously, a submission would have been expected to be discussed at a Full Board meeting if it was submitted by the meeting deadline. However, this did not take into consideration whether the submission included all of the necessary information. Thus, in an effort to better serve the research community and to more accurately prioritize submissions, the Human Subjects Office will no longer utilize IRB meeting deadlines, and incomplete submissions will be prioritized lower than complete submissions.

Instead, under the updated process, a study submission will first be reviewed to determine if it can be considered a "complete submission" eligible to be reviewed. Once deemed "complete," submissions will be sent to the next available IRB Full Board meeting with the appropriate expertise. Expedited and Exempt studies will also need to meet these two criteria before being sent to an IRB reviewer or designee for approval. In the event a submission is deemed "incomplete," the Human Subjects Office will contact the Principal Investigator and identified study contact person to notify him/her as to what is needed and how to proceed.

Focused Team Approach: Once received, and deemed to be a complete initial submission, submissions will be prioritized and processed by teams in the IU Human Subjects Office. Teams and their workload will be divided by a school, research area and/or department-based approach for all IRB submissions. Thus, a researcher from one research area should have the same team processing all of his or her research submissions, and the IU Human Subjects Office can offer skilled, personal attention to each department and researcher. For more information regarding the division of departments in relation to these teams and the personnel structure of the teams, please visit:

http://researchadmin.iu.edu/HumanSubjects/hsdocs/Communication_ET.pdf

Educational sessions will be held on the Bloomington and Indianapolis campuses in the Summer and Fall to elaborate on these changes, and address any questions or concerns. These sessions will be scheduled shortly and you will be notified of the dates and times. Questions can be directed to inforsch@iupui.edu.

Indiana CTSI Awards Nearly \$3 Million in Pilot Funding, Scholarships

The Indiana Clinical and Translational Sciences Institute has awarded nearly \$3 million to a new generation of medical students and researchers at Indiana University, Purdue University and the University of Notre Dame to encourage home-grown innovation in Indiana.

These scholarships and pilot funds will support students and researchers at multiple institutions within the three member universities. Approximately \$2.3 million dollars will support career development grants to young physicians and scientists working on promising research projects. An additional \$500,000 will support new research projects aimed at advancing the fight against diseases such as breast cancer, prostate cancer, multiple sclerosis and osteoporosis.

"We're investing heavily in developing the next generation of medical researchers to strengthen projects which may one day generate new treatments and therapies in Indiana and beyond," said Anantha Shekhar, M.D., Ph.D., director of the Indiana CTSI. "By providing an early boost to promising projects, the Indiana CTSI gives select scientists the tools they need to attract new research dollars to the region from outside sources, including the federal government and industry."

The scholarship component is designed to encourage research by new scientists and scientists-in-training, he added, including tuition support for courses focused on developing skills related to "translating" research into new products and treatments that will make a lasting impact on the local community.

The pilot funds are provided by the Indiana CTSI Collaboration in Translational Research (CTR) Awards. This program requires participation from scientists at two or more member institutions or campuses—IU, IUPUI, IU-Bloomington, Purdue and Notre Dame—to encourage statewide collaboration. The scholarships are provided by the Indiana CTSI Young Investigator (K Award) and Training Awards (T Award) programs. Graduate student recipients also receive health insurance coverage.

Together, these awards span six teams of scientists from the schools of medicine and dentistry at IU and veterinary medicine and biomedical engineering at Purdue, and 39 scientists and students studying biochemistry, medical informatics, microbiology, neuroscience, nursing, ophthalmology, pediatrics, pharmacology and toxicology, psychology, public health, radiology and surgery at IU, Purdue and Notre Dame.

CENTER SPOTLIGHT

Center on Philanthropy Receives \$100,000 Federal Research Grant to Help Strengthen Volunteering

Nonprofits, policy makers and scholars will have a better understanding of the factors that impact Americans' volunteering as a result of research being conducted by the Center on Philanthropy at Indiana University. The Corporation for National and Community Service (CNCS) and the National Science Foundation have awarded the Center a \$100,000 grant to study trends in volunteering over time and what influences whether or not people volunteer.

"This research will provide new insights into the personal and national circumstances that cause volunteering rates to rise or fall," said Una Osili, director of research for the Center. "It will examine how changes in the

economy, the labor market and employment trends such as those experienced in recent years affect participation in volunteering."

The study will show the proportion of people who switch between volunteering and not volunteering. It will help public officials and nonprofits better understand the relationship between public policy changes and participation in volunteering, and will show the effects of major demographic shifts, such as the retirement of baby boomers.

"Understanding these trends will allow nonprofits to anticipate when their volunteer ranks may swell or diminish so they can plan accordingly," Osili said. "Knowing what shapes people's ability and willingness to volunteer also will help policy makers and nonprofits identify ways to encourage more people to give their time and skills."

Nationally, 63.4 million Americans volunteered 8.1 billion hours of service in 2009, according to CNCS. Volunteers have a tremendous impact in the lives of others and in communities across the country, from tutoring children and delivering meals for senior citizens to providing arts and cultural opportunities and preserving the environment.

"Our partnership with the Center on Philanthropy will allow us to build on the research that we publish annually on our Volunteering in America (VIA) website," said CNCS Chief Strategy Officer Heather Peeler. "VIA is the nation's official source for statistics about who volunteers today, and what volunteering is like across the country. Our partnership with the Center gives us a unique opportunity to learn more about why people get and stay involved with volunteering. This will help us strengthen the voluntary sector – one of the Corporation's main strategic goals – and promote lifelong civic engagement."

The research will look at the effect of changes in personal circumstances on volunteering. It is based on the Center on Philanthropy Panel Study (COPPS), the only nationally representative, longitudinal study able to show how various changes in people's lives affect their volunteering over time. COPPS surveys the same 9,150 families throughout their lifetimes and across generations, providing important insights that cannot be gleaned from one-time surveys of different households. That will allow researchers to examine whether and how life changes such as retirement, job loss, changes in health, shifts in finances, marriage, divorce or birth of children affect people's volunteering habits.

"The support of the National Science Foundation and the Corporation for National and Community Service for this research underscores the crucial role volunteers play in communities," said Patrick M. Rooney, executive director of the Center. "We are pleased that CNCS, the experts in volunteering, selected the Center on Philanthropy to help improve the understanding of volunteering in America and how it is affected by major national and personal events."

The Center on Philanthropy Panel study is conducted in conjunction with the University of Michigan Institute for Social Research's Panel Study of Income Dynamics, which has surveyed the same 8,000 households since 1968. As children of these respondents have matured, they have been added to the sample, which now exceeds 9,150 households. In 2001, researchers added the philanthropy component, designed and sponsored by the Center on Philanthropy.

FACULTY SPOTLIGHT

Computer-Based Depression Treatment to Reduce Coronary Artery Disease Risk

Dr. Jesse Stewart, Assistant Professor of Psychology in the School of Science, is a researcher in cardiovascular behavioral medicine, a multidisciplinary field concerned with relationships between psychosocial factors and cardiovascular health and disease. He was recently awarded an American Heart Association National Clinical Research Program grant that will provide the preliminary results needed to secure additional federal funding for a large-scale clinical trial.

Coronary artery disease (CAD), also known as heart disease, is the single leading cause of death of American men and women. Evidence suggests that depression is a risk factor for CAD; however, past studies have not detected a cardiovascular benefit of depression treatment. A promising explanation for these



Jesse Stewart, PhD
Department of Psychology
School of Science

disappointing results is that the depression treatments were delivered too late – for example, after the occurrence of a heart attack. There is now a critical need to determine whether treating a person's depression earlier (before a heart attack) lowers his/her risk of CAD in the future.

The objective of Dr. Stewart's project is to evaluate the efficacy of a highly disseminable depression intervention in decreasing CAD risk. To achieve this goal, a pilot clinical trial of 30 depressed primary care patients free of cardiovascular disease will be conducted. According to Stewart, "Patients will be randomized to usual care or a computer-based, cognitive behavioral intervention called Beating the Blues®, the most widely used and empirically supported computerized treatment program for depression." The primary outcome is brachial artery flow-mediated dilation, an ultrasound measure of endothelial function and a predictor of future heart disease. Demonstrating that earlier treatment of depression lowers CAD risk would place computer-based depression treatment in the armamentarium of CAD prevention strategies of the primary care provider. This change to clinical practice should result in improved cardiovascular risk management, which in turn would translate into reduced CAD morbidity and mortality.

"The proposed pilot clinical trial is translational in nature," states Stewart. "More than 30 years of observational and mechanistic research on the depression-CAD relationship indicates that there is now a critical need to determine whether evidence-based treatment for depression, delivered before the onset of coronary artery disease, reduces cardiovascular risk."

TRANSLATIONAL RESEARCH IMPACT



Left to Right: James Payne, Director of the Indiana Department of Child Services, M.B. Lippold, Deputy Director of Staff Development at DCS, Patricia Howes, Director, Child Welfare Education and Training Partnership, Associate Professor Lisa McGuire and School of Social Work Dean Michael Patchner

Key Role with Indiana's Public Child Welfare System Transformation Opens Translational Research

Opportunities for Faculty Member

Dr. Lisa McGuire, an Associate Professor of Social Work and Translating Research into Practice (TRIP) scholar, has played an integral role in helping Indiana transform its child protective system. She drafted a partnership proposal linking the Indiana Department of Child Services (DCS) and the Indiana University School of Social Work in 2001. The partnership's goal is to train and educate employees of DCS as well as those who want a career with the agency. Dr. McGuire became the Principal Investigator after the partnership was implemented and has worked with others to create what has become a multi-million dollar collaboration between the School of Social Work and DCS.

The work of the partnership has provided rich opportunities to study the transformation of how DCS protects Indiana's most vulnerable children. Dr. McGuire's recent article "Leadership as Advocacy" published in the Journal of Public Child Welfare, reports how providing MSW education to DCS employees, many of whom have been promoted into leadership positions, was a factor in the transformation of Indiana's public child welfare system (the article was co-authored with Patricia Howes, the Director of the partnership as well as two doctoral students). Gov. Mitch Daniels has described the partnership as "the single best example I know of, of close collaboration between people in public service and the great university assets we have in this state."

Dr. McGuire's current research compares BSW students who completed their education in a partnership-supported program with agency trainees who receive 12-weeks of pre-service training. "We asked them how *competent* they feel after four to six months as a Family Case Manager, a time when many consider leaving this demanding job. Literature supports that how competent a worker feels directly impacts their job retention," reports Dr. McGuire. Because all the respondents were either educated or received training based on the partnership model, McGuire believes researchers can fairly assess the strengths and limitations of both of these forms of preparation, which are two different, but equally important routes for becoming a frontline public child welfare worker. While the initial results from the first two years are interesting, larger sample sizes are needed to make sound judgments. Dr. McGuire will continue this research to assist not only Indiana, but other states in building public child welfare systems that support the safety, permanence and well-being of children and families.

WORKSHOPS AND EVENTS

Scientific Writing from the Reader's Perspective

George Gopen, JD, PhD, will present a two-day workshop from 8 a.m. to 5 p.m. Monday, June 27, and Tuesday, June 28, in the Walther Hall (R3) auditorium, room 203.

"Scientific Writing from the Reader's Perspective" will focus on improving faculty's ability to get published by improving their writing skills. Dr. Gopen is a professor of the practice of rhetoric a senior lecturing fellow in English and law at Duke University. He is a pioneer in the field of scientific writing with clients at the NIH, FDA, Bristol-Myers Squib, Bayer and the Duke University School of Medicine.

Registrants must be able to commit to both days of this workshop. To sign up, visit <https://faculty.medicine.iu.edu/registration/indexDirect.asp?id=463>.

This event is sponsored by the IUSM Office of Faculty Affairs and Professional Development, the Indiana Clinical and Translational Science Institute (CTSI) and the IUPUI Office of the Vice Chancellor for Research.

RECENT EXTERNAL FUNDING AWARDS

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

Grants and Awards - May 2011

PI	Agency	Project Title	School	Department	Total
GUISE,THERESA	NATIONAL CANCER	Differential TGF- β Signaling in the Bone	MEDICINE	ENDOCRINOLOGY	

ANN	INSTITUTE	Microenvironment: Impact on Tumor Growth			\$2,846,344
RENBARGER,JAMIE LYNN	NATIONAL INSTITUTE OF CHILD HEALTH, HUMAN DEVL.	Postdoctoral Research Training in Pediatric Clinical and Developmental Pharmacology	MEDICINE	PED-CHAIRMAN'S OFFICE GENERAL	\$907,449
SANDUSKY,GEORGE EARL	ANALYTICAL BIOLOGICAL SERVICES, INC.	Networks of Tissue Source Site (TSS) in support of The Cancer Genome Atlas (TCGA)Program	MEDICINE	CANCER CENTER	\$598,326
OLSON,KENNETH R	NATIONAL SCIENCE FOUNDATION	Hydrogen Sulfide: A Primal Oxygen Sensor	MEDICINE	IUSM-SOUTH BEND	\$549,059
AALSMA, MATTHEW C.	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Arrested Youth: Epidemiological, Mental Health Care, and Cost-effectiveness Research to Guide Public Health Partnerships	MEDICINE	PED-ADOLESCENT MEDICINE	\$273,818
SANDUSKY,GEORGE EARL	ANALYTICAL BIOLOGICAL SERVICES, INC.	ARRA R&D on Human Biospecimen Integrity	MEDICINE	CANCER CENTER	\$158,835
NUNN,SAMUEL	CROWE HORWATH LLP	Disaster Housing and Emergency Services	PUBLIC & ENVIRON-MENTAL AFFAIRS	PUBLIC & ENVIRONMENTAL AFFAIRS	\$135,000
LIM,HYUN-SUK	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	Direct inhibition of Skp2 for the Treatment of Advanced Prostate Cancer	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$115,380
CHIRGWIN,JOHN MITCHELL	U.S. DEPARTMENT OF DEFENSE	Osteocyte FGF23 and resistance of bone metastases to vitamin D therapies	MEDICINE	ENDOCRINOLOGY	\$115,380
COE,MARY KATHRYN	UNIVERSITY OF CHICAGO	The Cultural Embeddedness of Virtue and Forgiveness	MEDICINE	PUBLIC HEALTH	\$101,810
HE,CHUNYAN	V FOUNDATION FOR CANCER RESEARCH	Genetic Variants, microRNA Expression and Breast Cancer	MEDICINE	PUBLIC HEALTH	\$100,000

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.

CENTERS FOR DISEASE CONTROL

Developing Support and Educational Awareness for Young (<45) Breast Cancer Survivors in the United States: The purpose of this project is provide structured support services (including case management/patient navigation assistance) to young women diagnosed with breast cancer and their families and/or caregivers; and develop educational and awareness resources aimed at enhancing patient and provider knowledge of health behaviors and other strategies for reducing the risk of recurrences, development of new malignancies, chronic disease onset, and improving overall health and quality of life of young breast cancer survivors (YBCS). *Application deadline is June 30, 2011.*

DEFENSE ADVANCED PROJECTS ADMINISTRATION

Information Innovation Office (I2O): Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Proposers may submit an abstract in advance of a proposal to reduce potential effort in proposal preparation. DARPA will respond to abstracts indicating whether, after preliminary review, there is interest in I2O for the proposed work. Written responses will be sent within 30 calendar days of receipt. *DARPA will receive and review abstracts and proposals on a rolling basis through May 30, 2012.*

HOUSING AND URBAN DEVELOPMENT

Doctoral Dissertation Fellowships: By the application deadline date, the student's dissertation proposal/prospectus must have been accepted by the full dissertation committee. The student must have an assigned dissertation advisor; and by September 1, 2011, the student will have satisfactorily completed all other written and oral doctoral degree requirements, including all examinations, except the dissertation. *Application deadline is July 14, 2011.*

NATIONAL ENDOWMENT FOR THE HUMANITIES

Bridging Cultures Implementation Grants

To help Americans better understand our own rich cultural heritage, while enhancing public knowledge of and respect for others both here and abroad, NEH has launched the Bridging Cultures initiative. The initiative encourages projects that explore the ways in which cultures from around the globe, as well as the myriad subcultures within America's borders, have influenced American society. With the aim of revitalizing intellectual and civic life through the humanities, NEH welcomes projects that expand both scholarly and public discussion of diverse countries, peoples, and cultural and intellectual traditions worldwide. As part of its Bridging Cultures initiative, NEH welcomes proposals to implement a national or regional program for broad and diverse public audiences on one of two humanities themes: "Civility and Democracy" or "The Muslim World and the Humanities." *Application deadline is August 2, 2011.*

NATIONAL INSTITUTES OF HEALTH

NIH National Center for Research Resources High-End Instrumentation Grant: The NCRR High-End Instrumentation Grant (HEI) program encourages applications from groups of NIH-supported investigators to purchase a single major item of equipment to be used for biomedical research that costs at least \$750,000. The maximum award is \$2,000,000. Instruments in this category include, but are not limited to, structural and functional imaging systems, macromolecular NMR spectrometers, high-resolution mass spectrometers, cryoelectron microscopes and supercomputers. *Application deadline is September 19, 2011.*

NATIONAL LIBRARY OF MEDICINE

Advanced Informatics for Health (R01): This FOA solicits Research Project Grant (R01) applications from institutions/organizations proposing exceptionally innovative informatics research on novel hypotheses or difficult problems relating to complex health decisions. The NLM Advanced Informatics for Health grant program supports extremely novel, high impact research that is germane to the mission of the National Library of Medicine. This FOA is for support of new projects, not continuation of projects that have already been initiated. It does not support pilot projects (i.e., projects of limited scope that are designed primarily to generate data that will enable the PD/PI to seek other funding). Rather, it is anticipated that projects will begin and be completed during the funding period. *Application deadline is July 25, 2011.*

NATIONAL SCIENCE FOUNDATION

Perception, Action and Cognition: Supports research on perception, action and cognition including the development of these capacities. *Application deadline is August 1, 2011.*

Physics of Living Systems: The program "Physics of Living Systems" (PoLS) in the Physics Division at the National Science Foundation targets theoretical and experimental research exploring the most fundamental physical processes that living systems utilize to perform their functions in dynamic and diverse environments. The focus should be on understanding basic physical principles that underlie biological function. *Application deadline is July 21.*

Research in Engineering Education: The focus is on increasing our understanding of how engineering students learn and the capacity that supports such discovery; understanding how to increase the diffusion and impact of engineering education research; understanding engineering education in broader, organizing frameworks such as innovation, globalization, complex engineered systems, or sustainability and diversifying pathways to and through engineering degree programs. *Application deadline is August 22, 2011.*

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://service.govdelivery.com/service/multi_subscribe.html?code=USNSF&custom_id=823. 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 <https://www.fbo.gov>. 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 or 317-278-8427. For a description of upcoming limited submission funding opportunities, as well as guidelines and application forms, go to: http://research.iu.edu/limited_sub.shtml. 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.

[IUF Special Handling List and Principal Gifts Review Template](#)

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