

March 16, 2011

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MESSAGE FROM THE VICE CHANCELLOR FOR RESEARCH

Dear Colleagues,

I would like to extend a personal invitation to each of you to join us in a celebration of IUPUI research and scholarly activity at the April 8, 2011 IUPUI Research Day. This event will be held in the Campus Center, on the fourth floor, from 9:00 am to 4:30 pm. The program will include a student (graduate, professional and undergraduate) poster session (9:00 to 11:00 am), presentation by the keynote speaker (1:00 to 2:00 pm), faculty award recognitions (2:00 to 2:15 pm), and concurrent research poster and exhibit sessions, and networking reception (2:15 to 4:30 pm).

This year's keynote speaker is Dr. S. James Gates, Jr. Dr. Gates is the John S. Toll Professor of Physics at the



Vice Chancellor Kody Varahramyan

University of Maryland, College Park, and member of President Obama's Council of Advisors on Science and Technology. He will describe how his endeavor to solve a decades old theoretical physics problem led him to a quincunx point at the five-fold overlap of art, mathematics, music, science, and perhaps theology. Dr. Gates will also provide insight into his work with the President's Council of Advisors on Science and Technology (PCAST) and the Council's recent report to President Obama, entitled "Prepare and Inspire: K-12 Education in Science, Technology, Engineering, and Math (STEM) for America's Future".

The faculty awards will consist of recognizing the 2011 Research Frontiers Trailblazer Award recipients. Moreover, the concurrent research poster and exhibit sessions will showcase research and scholarly activities from across IUPUI. There will also be informational booths for many of the major units that provide resources and programs in support of research and scholarly activity at IUPUI.

Research Day provides an opportunity for the IUPUI faculty, staff, and students, and their academic, industrial, governmental partners, and the broader community, to come together and find out more about the research enterprise at IUPUI, explore new collaborations, and lay the foundation for new partnerships. To obtain more information about Research Day, please go to
<http://research.iupui.edu/events/researchday2011/index.html>.

I look forward to seeing all of you at the April 8 Research Day!

Kody Varahramyan
 Vice Chancellor for Research

FEATURE STORY

Grant to Help Community Fitness Program

The Anthem Blue Cross and Blue Shield Foundation recently announced that it has awarded a \$90,000 grant to IUPUI's School of Physical Education and Tourism Management (PETM). The grant will help evaluate and expand a community workout and training program that PETM operates at three Indianapolis Public Schools (IPS) high schools—George Washington, Howe and Manual.

The program, called PARCS (Physically Active Residential Communities and Schools), eliminates two significant barriers to exercise for people in urban communities: cost and accessibility. Community members pay just \$20 annually. Students and staff members from the participating schools exercise for free, as do community members who have physician referrals. And the neighborhood schools provide close-to-home facilities.

The low cost is possible because IPS contributes the facilities, while faculty-supervised physical education students from IUPUI serve as volunteers who provide individualized wellness assessments, exercise prescriptions, health promotion advice and personal training.

To date, more than 10,000 residents have participated in the seven-year-old PARCS program. Indianapolis resident Deryl Springfield, 57, is one of them.

"If you look around, the majority of people have guts," said Springfield. "I want to get rid of mine. I've lost 20 pounds in the last year. I keep coming to PARCS, eating light, and not eating late at night. I'm losing it, and I feel good. I need to lose about 25 more pounds, and I'll keep working on it."

The Anthem Blue Cross and Blue Shield Foundation grant, the largest in the program's history, will provide a new level of program evaluation—one that will set measurable goals for participants and, PETM officials hope, lead to program expansion.

Specific measurable objectives for the Anthem Blue Cross and Blue Shield Foundation grant program includes:

- Improved frequency of exercise;
- 10-pound weight loss for obese individuals;
- 5-pound weight loss in overweight individuals;
- Improved muscle strength and cardiovascular endurance;
- Decreased resting and exercise blood pressure;
- Decreased resting and exercise heart rate;
- Improved attitudes toward exercise.

"This grant provides an invaluable opportunity for our School and the PARCS program," said Jay Gladden, Dean of the School of Physical Education and Tourism Management. "It will fund the kind of translational research IUPUI is known for—and, if the results are what we expect, it will help pave the way for other grants, and enhance our ability to replicate this program in other schools and other communities."

"The Anthem Blue Cross and Blue Shield Foundation is dedicated to improving the health of underserved populations," said Robert W. Hillman, President and General Manager, Anthem Blue Cross and Blue Shield in Indiana. "We're impressed with the PARCS program, delighted to join this proven partnership, and eager to enhance and measure the program's results."

DID YOU KNOW?

Nine schools (Education, Engineering and Technology, Health and Rehabilitation Sciences, Herron, Informatics, Liberal Arts, Nursing, Public and Environmental Affairs, Science) have received more award dollars for the year-to-date than the comparable period last year. The amount requested in proposals submitted from the campus for the year-to-date is 3.1% greater than the corresponding period last year.

The amount requested in proposals from seven schools for the year-to-date (Dentistry, Herron, Informatics, Law, Nursing, Physical Education and Tourism Management, Medicine) exceeds the amounts requested for the same period last year.

ANNOUNCEMENTS

Should We Know?

As we at the Office of the Vice Chancellor for Research strategically plan and support the growth of the research enterprise at IUPUI, we continually seek input from various groups across the campus. As part of this, we are interested to know about important issues, including any impediments to research that may be "under our radar". We appreciate it when these are brought to our attention and encourage you to submit these to OVCR@iupui.edu.

Faculty Group Works Together to Generate Individual NSF Career Proposals

Twenty-one faculty members from 7 schools are participating in writing circles where the expected end product is the submission of an NSF Career proposal by each of the participants. The group has participants from these departments: Anatomy and Cell Biology; Biology; Biomedical Engineering; Chemistry and Biological Chemistry; Computer and Information Science; Economics; Electrical and Computer Engineering; Geography; Hematology/Oncology; Library and Information Science; Media Arts and Science; Sociology; and World Cultures and Languages. Participants began monthly meetings in January and these will continue until the submission deadline in the summer. For each of the meetings, participants have a writing assignment and the group members offer feedback on each other's work. Staff members from the Office of the Vice Chancellor for Research provide information on the various sections of the proposals and facilitate the meetings. For more information about this activity, contact Kathryn Wilson (kjwilson@iupui.edu).

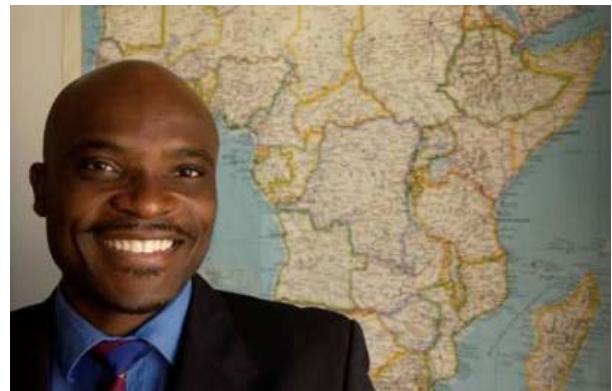
FACULTY SPOTLIGHT

Professor Receives International Fellowship for "Tropical Cowboys"

Dr. Ch. Didier Gondola is the recipient of a prestigious international fellowship from the European Institutes for Advanced Study (Eurias) to continue his research on "Tropical Cowboys: Youth, Popular Culture and Masculinity in Colonial Kinshasa."

Seven hundred academics applied for the 2011-2012 Eurias Fellowships and just 18 junior and 10 senior scholars from across the globe were chosen for the program. The award includes a living allowance, travel support, and a research budget.

Gondola, a professor of history in the School of Liberal Arts, will be in residency for 10 months at the Institut d'études avancées in Nantes, France, and be part of a multidisciplinary and international group of fellows stationed at the 14 institutes across Europe and Israel.



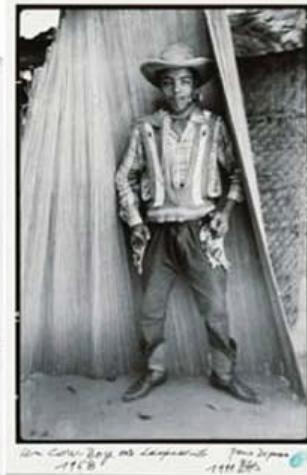
Ch. Didier Gondola, Ph.D.
Department of History
School of Liberal Arts

The Eurias Fellowship will allow the professor to focus exclusively on completing a book manuscript on the "Tropical Cowboys," a project which looks at the ways in which young people in colonial Kinshasa (Congo) appropriated images from Hollywood cowboy movies to reshape existing patterns of masculinity.

"I am particularly interested in how these interstitial youths combined the lore of the American far west with local practices



A group of "cowboys" and "cowgirls" in Kinshasa, Congo, ca 1960. Photo: Jean Depara.



A "tropical cowboy" in Kinshasa, ca 1960. Photo: Jean Depara.

and rituals in creating their unique culture," says Gondola. "For example, they adopted the cowboy attire, down to the cowboy hat, boots, spurs, etc., and were avid bodybuilders. Yet, they also performed traditional rituals to enhance their physical abilities and adopted some violent behaviors, such as gender violence, that conflated images of the far west and colonial violence meted out to African women."

The author of *The History of Congo* (Greenwood Press, 2002), Gondola sees this phenomenon as evidence of the ways in which colonial dystopia never really obliterated African agency.

Colonial subjects managed to occupy strategic sites that allowed them to shape their colonial experiences through hybrid cultures.

A great deal of Gondola's research collecting data and oral materials for the book was completed in Kinshasa in 2008-2009 while he was a Fulbright recipient.

"Since returning from the Fulbright leave, it has been quite a challenge to get any writing done," says Gondola. "With the ERIAS Fellowship I will have the freedom to write in a quiet and intellectual thriving environment with no teaching and service duties."

"This is a truly prestigious recognition of Professor Gondola's international profile as a scholar," said William Blomquist, dean of the School of Liberal Arts. "The ERIAS selection process is extraordinarily competitive, with hundreds of candidates each year. His selection as one of just 10 senior scholars chosen for this fellowship is a mark of distinction, and all of his colleagues in the School of Liberal Arts are very pleased for him."

Gondola will begin his residency in Nantes this coming October.



Former "tropical cowboys" interviewed by the author in "Mofewana" (Far West) Township in Kinshasa, July 9, 2005. Photo: Ch. Didier Gondola.

STUDENT SPOTLIGHT

Undergraduate Research Experience Moves Student Closer to Realizing Dream of Becoming Dentist

Since she was a first grader who drew a dentist when asked to portray what she wanted to be when she grew up, School of Science junior Kathryn DelaCruz has been captivated and challenged by the sciences.

By the time she completed school at Roncalli High School on Indianapolis' south side, DelaCruz was intent on majoring in biology with the goal of becoming the dentist she drew as a six-year-old. She explored various options but chose to attend IUPUI because it offered her advantages no other school in the state could provide – the opportunity to take rigorous undergraduate courses while being exposed to a dental school and a medical school.



Kathryn DelaCruz with Dr. Jack Windsor in oral biology

"Having a dental school and medical school on campus really drew me to IUPUI. I didn't know if I would be able to take advantage of them or not but I wanted that possibility. And now that I'm on campus I've learned from personal experience and heard from other students that dental and medical school faculty appreciate School of Science students and provide really great mentorship."

On the path toward her ultimate goal of becoming a dentist and seeing patients with a wide range of oral health problems, DelaCruz is taking a rigorous undergraduate course load as a pre-dental biology major but has had time to pursue a variety of academic interests.

"Being a science major with lots of demanding courses makes it harder to be able to have time to study abroad but I was encouraged to do so and spent a month living with a Spanish family in Madrid. I'm a Spanish minor and this experience was a wonderful opportunity to improve my Spanish and get in touch with the culture," she says.

Through the Louis Stokes Alliances for Minority Participation (LSAMP) Program, which assists students from groups underrepresented in the sciences into labs very early in their college careers, DelaCruz has become deeply involved in research, spending the summer after her freshman year and much of her sophomore year in a laboratory in the Department of Oral Biology at the IU School of Dentistry. There, under the mentorship of dental school faculty and post-doctoral student Jun Sun, Ph.D., who taught her laboratory techniques, DelaCruz has helped investigate the effects of nicotine and cigarette smoke condensate on the cells that line blood vessels and the impact changes in these cells have on the cardiovascular system.

"People think about dentistry as just teeth, but it's much more. It's about oral health and health of the whole human body," she said. I really enjoyed my experience with this research project. It increased my interest in dentistry. I feel like I am doing what I was destined to do," she says.

That is just the kind of reaction that Kim S. Nguyen, Ed.D., who has overseen the LSAMP Program at IUPUI since 2003, believes demonstrates the validity of early exposure to research and mentors and is likely to keep a student on track to graduating with a major in the sciences and propelled to a career in science.

DelaCruz's lab experience was capped by a busy post-sophomore year summer preparing a scientific poster and oral presentation on her research in the lab of L. Jack Windsor, Ph.D., at the IU School of Dentistry. In the fall DelaCruz was awarded first place for her oral presentation at the statewide [LSAMP research conference](#) competing again students from Ball State, Indiana State, IU-Bloomington, IU Northwest, Purdue University – Calumet, Purdue University – North Central, and Purdue University in West Lafayette, the other members of LSAMP Indiana.

DelaCruz is a recipient of IUPUI's prestigious Bepko and Norman Brown Diversity Leadership Program Scholarships. She is secretary of the newly formed Honors College Student Council and vice president of the Filipino Student Association. And she also is definitely on a trajectory from the School of Science to a graduate program and career in dentistry.

TRANSLATIONAL RESEARCH IMPACT

Visitor Studies Research in Museum Builds Educational Relevance

Visitor studies research is a systematic collection and analysis of information on the learning experiences of audiences in informal environments such as museums. As one of IUPUI's public scholars of civic engagement, Dr. Elee Wood, assistant professor of museum studies and education, conducts visitor studies research with Indianapolis museums to assist staff as they consider ways to apply educational theory to practice and improve their educational mission delivery. The use of visitor studies research builds museum staff capacity to design and develop meaningful and relevant exhibitions and programs for their audiences.

The research incorporates multiple strategies to listen and learn

laboratory at the School of Dentistry

Elee Wood, PhD



from what museum audiences know and do as a result of visiting a museum program or exhibition. Dr. Wood partners with museum staff to investigate what works with program and exhibition educational approaches, what doesn't and why, and how to build intentional strategies that can better achieve the anticipated outcomes. This deliberative process of public scholarship and translational research helps museum staff build rapport with various audience groups. The resulting research reveals which participatory strategies can promote stronger connection to visitors and the museum planning team around expectations, interests, and potential problems. For example, during the development of The Children's Museum exhibition, *The Power of Children: Making a Difference*, which presents stories of children facing racism and prejudice, Wood worked with museum staff and several family groups over a period of months to research the potential experiences and content of the exhibition. The interactions between families and museum staff helped to clarify and illuminate the kinds of issues and concepts that parents and children would be willing to tackle in the exhibition.

Department of Museum Studies
School of Liberal Arts

Where possible, Professor Wood invites IUPUI student involvement in the research to leverage the full extent of learning and scholarship. Working with her this semester are four graduate students from the museum studies program to research and develop an interpretive plan for the Rhythm Discovery Center; assess and measure exhibition impact at the Eiteljorg Museum of American Indians and Western Art; conduct evaluation on educational materials and professionals for The Children's Museum and the Indianapolis Museum of Art. In addition, the research translates into course opportunities as well. This semester students in the museum theatre and live interpretation class will be researching and developing scripts for the Indiana State Museum, the Indiana Historical Society, and Conner Prairie.

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 - February 2011

PI	Agency	Project Title	School	Department	Total
RENBARGER,JAMIE LYNN	NATIONAL INSTITUTE OF CHILD HEALTH, HUMAN DEVELOPMENT	Pharmacogenetic Determinants of Vincristine Toxicity and Response	MEDICINE	PED - HEMATOLOGY/ONCOLOGY	\$2,571,351
CLAPP,DAVID WADE	NATIONAL CANCER INSTITUTE	Genetic Therapy for Fanconi Anemia	MEDICINE	PED-NEONATAL BASIC RESEARCH	\$1,597,750
LOEHRER,PATRICK J.	PFIZER, INC.	Radiation Oncology Infrastructure Support for the AMPATH Oncology Institute	MEDICINE	CANCER CENTER	\$500,000
GUISE,TERESA ANN	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Near-infrared photodynamic therapy with selective targeting: Breast cancer and bone metastases.	MEDICINE	ENDOCRINOLOGY	\$250,000
CORNETTA,KENNETH G.	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Translational Development of Replication-Competent Retrovirus Vectors	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$235,032

OVCR INTERNAL GRANT DEADLINES

Signature Centers Initiative (SCI) Round 4 Call for Proposals: The Signature Centers Initiative (SCI) was begun in 2006 in an effort 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 deadline for round 4 SCI proposals is April 1, 2011. This is also the deadline for Round 2 center third and final year activity reports and for any Round 2 centers wishing to submit a proposal for receiving extended funding past their first 3 years. Deadline for the submission of Round 3 center second year activity reports is July 15, 2011. For more information and to apply, please go to <http://research.iupui.edu/funding/>.

RESEARCH SUPPORT FUNDS GRANT (RSFG): The 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 RSFG application deadline is April 15, 2011. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

OTHER INTERNAL GRANT DEADLINES

Indiana CTSI Spring Core Pilot Funding Program: The Indiana Clinical and Translational Sciences Institute (CTSI) Spring Core Pilot Funding Program is designed to promote the use of the technologies and expertise afforded by the Indiana CTSI Core Facilities, with the specific goal of funding projects with outstanding scientific merit that can be linked to generating extramural funding or novel intellectual property (IP). Details on Indiana CTSI-designated cores are available at <https://www.indianactsi.org/research/cores>. The program will provide up to \$10,000 in core services. Faculty from IU, IUPUI, IUSM, Purdue and Notre Dame are eligible to apply. The deadline for proposals is 5 p.m. Monday, April 11.

For more information, including complete program guidelines and application forms, visit <https://www.indianactsi.org/grants> and log in using your university ID. Questions should be directed to Lilith Reeves, chief scientific officer, Indiana CTSI at ictsi@iupui.edu

OVCR WORKSHOPS AND EVENTS

Finding Funding

When: Wednesday, March 23, 2011 | 10:00 AM-11:30 AM

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: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2231>

Panel Discussion: Exploring the World of Gifts and Grants

When: Wednesday, March 23, 2011 | 01:00 PM-03:00 PM

Where: University Library, Room 1116

(Also available via the polycom system; contact ovcr@iupui.edu for details.)

University fundraisers, successful faculty, and grants administrators will discuss the differences and similarities between gifts and grants as well as why those differences can be important to those looking for and managing funds to support their research efforts.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2246>

Scientific Grant Proposal Development

When: Tuesday, March 29, 2011 | 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: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2247>

OVCR Responsible Conduct of Research Workshop Series: Research with Human Subjects

When: Wednesday, April, 13 2011 | 10:00 AM-11:30 AM

Where: University Library, Room 2115E

The involvement of human subjects in research is a basic feature of a wide range of academic disciplines, including research conducted within the biomedical sciences, social/behavioral sciences, education, and the humanities. The aim of this workshop is to explore the responsibilities, commitments and obligations of the researcher who engages in research with human subjects.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2254>

Proposal Development: Basics of Preparing a Foundation-Funded Research Proposal

When: Thursday, April 14 2011 | 01:00 PM-03:00 PM

Where: University Library, Room 1116

(Also available via the polycom system; contact ovcr@iupui.edu for details.)

Writing a research proposal to a foundation is distinctly different than writing a proposal to a government agency such as NIH. This workshop will explain those differences and provide opportunities to practice the techniques necessary to be successful in securing funds.

Objectives:

1. To introduce faculty to the variety of funding opportunities provided by foundations
2. To offer writing strategies when the agency does not provide any forms or guidance
3. To review sample successful foundation proposals

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2248>

OTHER WORKSHOPS AND EVENTS

SALT: Nanoparticles: Friend or Foe?

When: Wednesday, March 23, 2011 | 12:00 PM-01:00 PM

Where: Faculty Club

Presenters: Bonnie Blazer-Yost and Frank Witzmann, School of Science and School of Medicine

Nanoparticles are widespread and can be found in everything from cosmetics to plasma televisions. In recent years nanoparticles have become well known for their medical applications serving as drug delivery systems and bio tags. However, as a workplace and, increasingly, an environmental contaminant their effects on human tissues if inhaled or ingested has not been addressed. A buffet lunch is available for \$10 inclusive of tax and gratuity.

Register: <http://faa.iupui.edu/newFaa/events/eventsRegistration.asp?id=2139>

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.

USAID SAVING LIVES AT BIRTH - A GRAND CHALLENGE

The focus is on groundbreaking prevention and treatment approaches for pregnant women and newborns in poor, rural communities around the time of childbirth. We need innovative prevention and treatment approaches across three main domains: (1) Science & technology; (2) Service delivery; and (3) Demand-side innovation that empowers pregnant women and their families to practice healthy behaviors and be aware of and access health care during pregnancy, childbirth and the early postnatal period, especially the first two days after birth. **We are particularly interested in investing in approaches that incorporate the latest scientific, technological, behavior change and information and communication advances into radical solutions with substantial impact.** Audacious but achievable ideas with the potential to lead to transformational change will be swiftly funded through at least one of two funding streams: (1) Seed Funds to demonstrate proof of concept and (2) Transition Funds to transition successful innovations toward scale up. These investments in high-risk, potentially high-return projects are aimed to identify and support transformational approaches to women's and newborns' health that can be scaled up to dramatically – and sustainably – reduce deaths and poor birth outcomes for millions of women and newborns in the hardest to

reach communities of the world. *Application deadline is April 29, 2011.*

ADMINISTRATION FOR CHILDREN AND FAMILIES (HHS)

Research Center to Support Secondary Analyses of Head Start Impact Study Data: This cooperative agreement will provide funds to support a research center focused on secondary analysis of the Head Start Impact Study data. The specific goals of the grant program are to: 1) strengthen our understanding of the relationship between center, classroom, and teachers' characteristics and Head Start's impact by supporting studies with varied but strong methodological approaches to addressing this issue; 2) build a consortium of researchers conducting complementary studies of the relationship between characteristics of Head Start centers, classrooms, and teachers and impacts on children and families; and 3) build a community of researchers with expertise and knowledge of the Head Start Impact Study data. *Application deadline is May 2, 2011.*

DEFENSE ADVANCED PROJECTS AGENCY

ENGAGE: Learning to Solve Problems, Solving Problems to Learn: DARPA is soliciting proposals for innovative research in educational systems that will ENGAGE young students (Pre-K – Grade 3) in Science, Technology, Engineering, and Mathematics (STEM) studies while conducting research into the best methods and practices for teaching these topics. Specifically, an educational game-based approach is being sought that will analyze game-play across thousands of players to determine the best approaches for teaching specific STEM topics while taking into account individual learning styles, demographics and other factors identified by the game to impact learning. *Application deadline is May 27, 2011.*

DEFENSE THREAT REDUCTION AGENCY

Basic Research for Combating Weapons of Mass Destruction (WMD): Thrust Area 1—Science of WMD Sensing and Recognition: The basic science of WMD sensing and recognition is the fundamental understanding of materials that demonstrate measurable changes when stimulated by energy, molecules, or particles from WMD in the environment. **Thrust Area 2—Cognitive and Information Science:** The basic science of cognitive and information science is the convergence of computer, information, mathematical, networks, natural, and social science. **Thrust Area 3—Science for Protection:** Basic science for protection involves advancing knowledge to protect life and life-sustaining resources and networks. Protection includes threat containment, decontamination, threat filtering, and shielding of systems. **Thrust Area 4—Science to Defeat WMD:** Basic science to defeat WMD involves furthering the understanding of explosives, their detonation, and problems associated with accessing target WMDs. **Thrust Area 5—Science to Secure WMD:** Basic science to support securing WMD includes: (a) environmentally responsible innovative processes to neutralize chemical, biological, radiological, nuclear, or explosive (CBRNE) materials and components; (b) discovery of revolutionary means to secure components and weapons; and (c) studies of scientific principles that lead to novel physical or other tags and methods to monitor compliance and disrupt proliferation pathways. *Pre-application white paper (4 pages) deadline is April 8, 2011.*

NATIONAL ENDOWMENT FOR THE HUMANITIES

Preservation and Access Research and Development Grants: Preservation and Access Research and Development grants support projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of searching, discovering, and using such materials. *Application deadline is May 19, 2011.*

NATIONAL INSTITUTES OF HEALTH

Blueprint for Neuroscience Research Science Education Award (R25): The focus is on improving kindergarten through twelfth grade science education in areas related to the NIH Blueprint for Neuroscience Research. Applications must be innovative, creative, and have a clear plan for improving science knowledge and enthusiasm for science among the targeted students or teachers. Plans for evaluation must be included in the application. Partnerships between educators and scientists in the development of the science education project are highly encouraged. *Application deadline is April 11, 2011.*

Family and Interpersonal Relationships in an Aging Context (R01): The National Institute on Aging invites researchers to submit innovative R01 research grant applications on aging and the family. The objective of this research program is to expand understanding of the role of families and interpersonal relationships in the health and wellbeing of older people. This will be accomplished through increasing scientific knowledge on the effects of family and interpersonal relationships on behavioral and social processes of relevance to aging; and on how these processes change over the life course and across cohorts. A broad range of methods and approaches are encouraged. *Next application deadline is June 5, 2011.*

Disclosure of HIV-Status to Children in Low- and Middle-Income Country Settings (R01, R21): The focus is on assessing intervention studies of the process of disclosure of HIV infection status to children infected and affected by HIV in low-resource settings and for the process of HIV-infected women (and other caretakers) disclosing their HIV status to their children, or both. *Application deadline is Nov. 29, 2011.*

NATIONAL SCIENCE FOUNDATION

Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES): The focus is on improving the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. This solicitation especially encourages projects that have the potential to transform undergraduate STEM education, for example, by bringing about widespread adoption of classroom practices that embody understanding of how students learn most effectively. *Application deadline is May 26, 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 <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 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.

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IU Authentication is required to view the following attachments:

[IU/IUF Corporation / Foundation Special Handling List](#)

[Principal Gifts Review Template](#)

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