IUPUI INDIANA UNIVERSITY–PURDUE UNIVERSITY INDIANAPOLIS

Research Enterprise

January 17, 2013

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:

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

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

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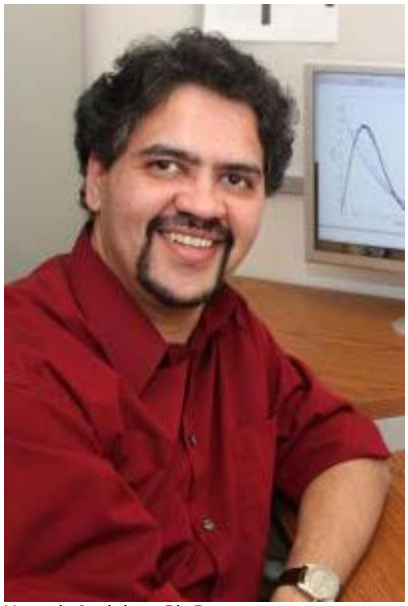
FEATURE STORY

IUPUI Researcher Named Scholar with Top Theoretical Physics Institute



Yogesh Joglekar, Ph.D.
Department of Physics
School of Science

Dr. Yogesh Joglekar, associate professor of physics in the School of Science, has been named a Scholar with the Kavli Institute for Theoretical Physics (KITP), the country's top collaborative research facility dedicated to discovering knowledge at the leading edge of science.

Dr. Joglekar joins seven other scientists honored each year from universities recognized by KITP as having growing research interests and impact, especially at the undergraduate level.

"Being a Scholar will give me the chance to interact and collaborate with groups of theorists and experimentalists working at the highest levels of research in the field," Dr. Joglekar said. "This will have a significant impact on the type of research we are able to do at IUPUI, and it really serves as a mark of how strong our department has become."

Dr. Andy Gavrin, chair of the Department of Physics, added: "This honor is a clear recognition of Yogesh's contributions and his future promise. It gives him a unique opportunity to work with some of the other leaders in his specialty."

KITP, on the campus of the University of California at Santa Barbara, hosts collaborations, seminars and presentations each year in four broad categories: astrophysics, biophysics, physics of matter and string theory (discovering the building blocks of matter).

Founded in 1979, KITP boasts a history of national influence. Three of the past six directors of the institute have won Nobel prizes in physics and several Nobel

laureates have served on its advisory board. More than 1,000 scientists conduct on-site collaborations each year along with five permanent members, more than a dozen post-doctoral fellows as well as graduate fellows and Scholars.

Dr. Joglekar first was invited in 2009 to participate in KITP activities as a result of his work advancing the understanding of graphene, a one-atom thick film of carbon with enough strength and conductivity to revolutionize physics research and technology. Two years later, the National Science Foundation recognized his work and honored him with its CAREER Award grant, the most prestigious award given to faculty members early in their career who exemplify the role of teaching scholars through outstanding research, excellent education and the integration of education and research.

Now as a KITP Scholar, he will have access to the institute's collaborative opportunities and support for up to six weeks across the three years he will serve as a Scholar. The on-site expertise will be vital as he expands his research into new and emerging areas, he said.

His most recent focus is on memristive systems (those involving materials whose resistance is determined by the history of voltage applied to them) and PT-symmetric systems (which describe optical fibers with loss and amplification).

"Theoretical physics research often is considered inaccessible to young students, and programs find it difficult to sustain due to funding considerations. Only a handful of institutions in the world have the infrastructure necessary to carry out experimental research in these areas," Dr. Joglekar said, referring to his current research focus.

"KITP can offer both theoretical and experimental expertise that can greatly advance this type of research and serve a critical role for smaller institutions such as IUPUI," he added.

Dr. Joglekar, who joined the physics department in 2005, regularly mentors and collaborates with students at all levels, including local high school students, on the value of physics research and its applications to everyday life. He has published peer-reviewed research articles with many of these past collaborators.

He remains committed to discovering ways to expose his research students to emerging theories like those championed at KITP.

ANNOUNCEMENTS

Save the Date: 2013 IUPUI Research Day: APRIL 5, 2013

On April 5, 2013 the Office of the Vice Chancellor for Research will host the 2013 IUPUI Research Day. This open house celebrates the cutting-edge and multifaceted research and scholarly activities of IUPUI. This full day event will be held at the IUPUI Campus Center.

Research Day provides an opportunity for the IUPUI faculty, staff, and students, their academic, industrial, and governmental partners, and the broader community, to come together and learn more about the research enterprise at IUPUI, to explore new collaborations, and to lay the foundation for new partnerships.

Click here to register. More details will be announced in upcoming Research Enterprise issues.

National Science Foundation is Coming to Town: FEBRUARY 4,

2013

The National Science Foundation and Indiana University-Purdue University Indianapolis (IUPUI) will be holding a one-day workshop on Monday, February 4, 2013. According to George Wilson of the NSF, "this workshop is primarily designed for researchers and educators less experienced in proposing to the NSF; however, more experienced proposers and NSF grantees may well find the workshop useful and informative. It is our hope that events such as this will stimulate new interest in NSF programs at institutions that have not been among our traditional customers, as well as at premier research institutions. We want to extend an invitation to you and to anyone else at your institution who would like to attend this workshop and learn more about the NSF and its programs."

The workshop will provide an overview of the Foundation, its mission, priorities, and budget. It will cover the NSF proposal and merit review process and NSF programs that cut across disciplines. Additionally, representatives from the seven NSF directorates and the Office of International Science and Engineering and the Office of Integrative Activities will make presentations on their programs and will also be available informally and in breakout sessions for discussions of potential research proposals.

There is no registration fee for this workshop. However, **registration is required**. Please register by **Friday, January 25, 2013.** Registration will not be available the day of the event. Morning and afternoon refreshments and lunch will be provided to those registered. Registration is limited, so please register early. We hope to see you there.

Click here to register with NSF

TRANSLATIONAL IMPACT

Translating Research into Practice Faculty Award

Translating research into practice is a hallmark of IUPUI. Highlighting the significance and fostering increased focus on translational research was the reason for establishing the TRIP initiative in 2006 under the leadership of Professor Sandra Petronio.


Chancellor Charles R. Bantz

At the beginning of 2013, Chancellor Charles R. Bantz announced the establishment of the inaugural Bantz-Petronio Translating Research into Practice Faculty Award. With a gift to the IU Foundation, Professor Petronio and Chancellor Bantz established the TRIP Award to recognize IUPUI faculty whose interdisciplinary or cross-disciplinary research and scholarship is intentionally directed toward making an impact on people's lives in Indiana and beyond.

In addition to generating knowledge through scientific inquiry or humanistic scholarship, nominees should have actively endeavored to transform knowledge into practices or solutions, demonstrating innovative ways to improve the lives of individuals and the communities in which they live.

To submit a nomination, please send the following materials: (1) the name, affiliation (school or center at IUPUI), and current CV of the faculty member you

are nominating; (2) your letter of nomination addressing specifically, including examples, the way your nominee's work fits the above criteria; and (3) three nomination letters from national, international, and/or IUPUI faculty that should include contact information in order for the selection committee to gather further comments on your nominee's work.

The selection committee, representing diverse disciplines and schools at IUPUI, will review nominations and make a determination about the inaugural TRIP Award recipient, which will be announced in May 2013.

The award winner is expected to be present at the annual Translating Research into Practice Showcase in the fall of 2013.

Please send nomination materials no later than March 1, 2013, to:

William Blomquist
Dean, IU School of Liberal Arts
CA 441
IUPUI
blomquis@iupui.edu

CENTER SPOTLIGHT

Green Power Technology Breakthrough at IUPUI

With a laboratory breakthrough once thought impossible, Dr. Afshin Izadian has invented a new class of power inverter that could put cheaper and more efficient renewable energy products on the market.

Afshin Izadian, Ph.D.
Department of Electrical and Computer Engineering Technology
School of Engineering and Technology

Dr. Izadian, a researcher at the Richard G. Lugar Center for Renewable Energy at IUPUI, has invented a power inverter that employs just a single switching transistor and generates infinite-level voltages.

Power inverters are at the heart of several renewable energy technologies. Solar power, battery storage, electric vehicles, motor drives and manufacturing robots all use inverters to generate AC power efficiently.

However, the current inverters with multiple switching transistors generate limited voltage levels, are heavy, generate unwanted harmonics (voltage frequencies) and require filters to reduce the harmful effects to the electric grid.

Dr. Izadian's invention, the result of a creative reconfiguration of an electrical circuit during a laboratory experiment, would make inverters cheaper, lighter and therefore more efficient than current models.

"The thrilling moment of any research is when your thoughts, designs and implementations come out right and you reach the goal," Dr. Izadian said. "An on-demand change of voltage polarity might not seem very exciting, but it becomes increasingly important if you can accomplish it while maintaining desired voltage amplitudes."

Dr. Izadian, who has a doctorate in electrical engineering and is a former postdoctoral researcher from UCLA, teaches in the Purdue School of Engineering and Technology at IUPUI. While studying how voltage levels and polarities are created in inverters, he made his discovery. In a creative moment at his lab bench,

he began reconfiguring an inverter circuit and discovered a new property technique to create infinite voltage levels and invert the voltage polarity of power circuits. This discovery in turn leads to a corollary insight that the researcher employed to create the new class of inverters.

Not only did the bench test work, it led to the discovery of several other circuits and controllers for high-power inverters with lower switching loss, higher voltage performance and lighter reconfigured circuits.

For example, unwanted harmonics are greatly reduced with Dr. Izadian's invention. This means car manufacturers can reduce the size and insulation of traction motors so that electric vehicles can be made cheaper. The size and weight of the power electronics can also be reduced, which can boost fuel economy in hybrid cars and buses. Such advantages translate into wider adoption of green technologies and more affordable renewable energy for homes, vehicles and businesses.

"The Lugar Center is a tremendous asset to the school's creative and innovative research process," said David J. Russomanno, dean of the School of Engineering and Technology. "We are delighted with Dr. Izadian's work and the possibility that his inverter can impact the renewable energy market. His efforts are a quintessential example of the cutting-edge research that enhances the school's image and reputation and allows us to compete in the renewable energy arena."

Dr. Izadian's work is under review by a prestigious technical journal, and several large companies have shown interest in the new inverters. They are interested in how his breakthrough can result in simpler, cheaper and smaller systems with better performance than today's technology.

Dr. Izadian has several patents pending on his invention and is seeking research funding to complete the development of the analysis and controls needed for commercial viability. Products could be ready for the marketplace in as little as three years.

FACULTY SPOTLIGHT

IUPUI Professor's New Book Underscores Internet's Negative Impact on Organized Religion

Religious groups aren't capturing the hearts of the millennial generation, and the Internet is partly to blame, says the author on a new book on building strong religious communities

Dr. Patricia Wittberg
Department of Sociology
School of Liberal Arts

As part of her research for writing "Building Strong Church Communities: A Sociological Overview," Dr. Patricia Wittberg examined nearly 700 surveys of Catholic parishes completed by the Center for Applied Research in the Apostolate at Georgetown University.

Some of the questions Wittberg's book asks include: How close do Catholics feel to their parish community and how close do they want to feel? How has the parish role changed throughout history? What kind of community connections do Catholics want from their religious order? When is community connectedness both beneficial and not beneficial for a parish?

"The youngest generational cohort of adults studied -- the millennials -- were the

least attached to organized religion," said Dr. Wittberg, who teaches sociology in the School of Liberal Arts.

"Over 33 percent of them claim no affiliation, the highest percentage for well over 100 years," the sociologist said.

Dr. Wittberg's research is the first to compare the 700 surveys. While her data set had no new information on reasons for the decline, the sociologist uncovered several interesting previous studies on how the Internet is eroding both the authority of established religious leaders and the permanence of religious communities

"Some of this (lack of affiliation) is due to the individualizing experience of accessing religion and spirituality via the Internet," Dr. Wittberg said. "On the Internet, seekers can pick and choose what kinds of doctrines appeal to them -- with little or no consideration of the official teachings of any church -- and they can join and leave religious online 'communities' much more easily."

The implications don't bode well for the future of religious groups, the author said.

"I believe that the survival and health of religious groups, including church congregations, requires that the next generations become members," she said. "So far, there is little to attract them."

In some of her background research, the sociologist discovered that the idea of improving church communities as communities was a fairly new one. It's easy to find books that help individuals better understand and grow in their religious worship, but books that focus on religious community are a bit harder to come by, according to the IUPUI professor.

"In the past, Catholic as well as Protestant pastoral books, journal articles, workshops, etc. have focused on the spiritual needs of the individual," Dr. Wittberg said. "Little has been done to develop a similar repertoire that would help them look at the needs of religious groups."

Dr. Wittberg's aim is for her work to help religious groups thrive and grow and be healthy for their members.

Dr. Wittberg was inspired to tackle the project when she realized how few church people were aware of the extensive literature and research about community since Robert Putnam's 2000 book, "Bowling Alone," which problematized whether and to what extent the sense of community was being lost in the United States and if that was a good or bad thing. "I believed that the findings of this research could benefit church communities," she said.

STUDENT SPOTLIGHT

School of Medicine Researcher/Science Alum Leads East Side Students in Advanced Breast Cancer Lab

High school students on the east side of Indianapolis got the chance to contribute to cancer research in November 2012 through a program that brings university scientists into the classroom to share their research and passion for science.

Jacob Adler, a doctoral candidate in the laboratory of Clark Wells, Ph.D., associate professor of biochemistry and molecular biology, led an advanced workshop on breast cancer research at Warren Central High School. The event was the capstone to a larger unit within a year-long course led by Adler through the Urban Educators GK-12 Program at


Jacob Adler

IUPUI, which places research students from the School of Medicine and IUPUI into local high school, middle and grade school classrooms throughout the city.

“This program is hugely beneficial for the high school students,” Adler said. “They got the chance to conduct a truly novel experiment in breast cancer research, examining a specific research question that no one else in the world has ever done.”

Over the past five years, the School of Medicine has contributed several teaching fellows to the Urban Educators GK-12 Program at IUPUI. Last year, Adler helped teach biology at Pike High School. This year, he got the opportunity to delve more deeply into the subject due to Warren Central’s participation in Project Lead the Way, a not-for-profit organization that provides resources to support rigorous and innovative science, technology, engineering and math education in schools across the country. Warren Central was one of the first schools in the United States to pilot the program, which now has its headquarters in Indianapolis.

“These students are likely to be the next generation of researchers, physicians and nurses – I challenge them at a very high level,” said Adler, whose research on the growth mechanics of breast cancer cells informs his classroom instruction as its happening.

The experiment in November closed out a unit on breast cancer research that also included lectures, exams and other interactive research units. Adler led the students in examining a novel mechanistic pathway through which tumor suppressor proteins influence cell cytokinesis using high-tech equipment made available through Dr. Wells’ lab and Project Lead the Way. The goal was to discover answers to why cancer cells are able to change/modify cell signaling and grow uncontrollably.

“I’m helping them take their work from a basic high school level to something closer to the college level – to understand what’s going to be expected of them as they enter the world of higher education,” Adler said. “What’s great about this program is it provides graduate students an opportunity to teach, but not like a traditional teaching assistant. I wanted something more challenging, and, at the same time, something that would help the community.”

The challenge will continue until the end of the academic year as Adler continues to design advanced science curriculum in collaboration with A.J. McAdams, the teacher responsible for three of the four advanced biomedical sciences courses at Warren Central.

“Our students can really relate to this material because we actually talk about cancer biology in class -- we do whole modules on cancer,” McAdams said. “Project Lead the Way attracts some pretty high-level kids who are interested in careers in medicine.”

Each participant in the Urban Educators GK-12 Program at IUPUI devotes about 15 hours a week to the project, including 10 hours of classroom instruction. Adler had already taught units on breast cancer research, cancer biology and pathology prior to the lab project.

OVCR INTERNAL GRANT DEADLINES

Release Time for Research (RTR): IUPUI maintains a robust research enterprise. To support faculty in having adequate time to prepare competitive proposals, the IUPUI Office of the Vice Chancellor for Research has developed the Release Time for Research (RTR) internal funding mechanism. This funding program allows IUPUI faculty a "buy out" of teaching time to prepare high quality grant/contract proposals for submission to external funding agencies. It also supports non-tenure track faculty who are full-time senior lecturers or clinical track faculty possessing terminal degrees relevant to their fields, and who have a desire to engage in research or creative activity in an area that directly relates to their teaching or service mission. The next RTR application deadline is **February 1, 2013.** 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 historically underrepresented populations, usually defined as African-American, Latino-American, Native American, Pacific Islanders, and women are particularly encouraged to apply. The DRIVE program supports projects that have the potential for sustainability through external funding. The next DRIVE application deadline is **February 15, 2013.** For grant guidelines and application forms, 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 **March 1, 2013**. For grant guidelines and application forms, go to http://research.iupui.edu/funding/.

Funding Opportunities for Research Commercialization and Economic Success (FORCES): The FORCES program is designed to support IUPUI researchers in the successful transformation of their research findings into commercially viable outcomes. The key goals of FORCES are to support: 1) realization of short-term projects that will enhance commercial value of IUPUI intellectual property assets, by facilitating commercialization of inventions, technologies, or other intellectual property derived from existing research projects, and 2) development of research initiatives that show great promise for commercialization of the research outcomes. The next RTR application deadline is **March 15, 2013.** For grant guidelines and application forms, go to http://research.iupui.edu/funding/.

OVCR EVENTS AND WORKSHOPS

Meeting the NSF Data Management Plan Requirement: What you need to know

When: Tuesday, January 22, 2013 | 11:30 AM-1:00 PM
Where: University Library, Room 1126

As of January 18, 2011, the National Science Foundation now requires a Data Management Plan for all new proposals. This plan should describe how the proposed study will disseminate and share the collected research results. Do you know what this plan should include? Are you aware of best practices and standards for data management, sharing, and preservation? Do you know what research support services are available at IUPUI? This workshop will provide background information on NSF data policies, practical tips for developing a data management plan, and data resources and services available on campus. Q&A will follow the presentation.

Anyone interested in or planning to apply for NSF funding should attend. This is a brown bag session, so feel free to bring your lunch. Presenter: Heather Coates, Digital Scholarship and Data Management Librarian, University Library

Click here to register

National Science Foundation Faculty Early Career Development Program

The Faculty Early Career Development (CAREER) Program is an NSF-wide activity offering prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.

The NSF deadlines for submission of proposals are July 22, 23, and 24, 2013, depending on discipline. If you are interested in applying and would like assistance by OVCR staff, be sure to **register for and attend all of the following sessions**.

Note: Faculty who submit an NSF CAREER proposal in 2013 are eligible to be considered for an OVCR CAREER Project Seed Grant related to that submission. Up to three awards may be made.

» Information & Determining Eligibility Session

When: Friday, February 1, 2013 | 10:00 AM-12:00 PM
Where: University Library, Room 1126

A brief review of the guidelines and eligibility requirements will be presented. Attendees will also learn what resources are available to support development of a competitive proposal to the National Science Foundation CAREER program.

Click here to register

» Panel of Successful NSF CAREER Applicants

When: Friday, March 8, 2013 | 10:00 AM-12:00 PM
Where: University Library, Room 1126

As a follow-up to the initial introductory session in February, recent NSF CAREER awardees will share tips on securing funding through this program and answer questions from attendees.

Click here to register

» Commitment and Match Day for Faculty and OVCR Staff

When: Friday, April 12, 2013 | 10:00 AM-12:00 PM
Where: University Library, Room 1140P

The Office of the Vice Chancellor for Research Proposal Development team will provide one-to-one support for developing and submitting NSF CAREER proposals. Attendees at this session will present their proposal concepts and be matched with an experienced professional writer/editor who will work with them through submission.

IUPUI Arts and Humanities Institute (IAHI) Grant Information Session

When: Thursday, February 7, 2013 | 11:30 PM-12:30 PM
Where: University Library, Room UL 1126

This session will provide participants with an overview of the IAHI internal funding opportunity, how to apply and more importantly how to develop a competitive proposal. Members of the IAHI grant advisory group will be present to answer questions, as well as IUPUI faculty who have received IAHI funding and who have reviewed arts and humanities proposals.

Click here to register

Nine Golden Rules to Succeed in Research and Scholarship

When: Tuesday, February 12, 2013 | 2:00 PM-4:00 PM
Where: University Library, Room 1126

This session will reveal the Nine Golden Rules on how to succeed in research and scholarship. It is focused toward new and early career investigators; however, mid career faculty should find information of interest as well.

Click here to register

Basic Proposal Development for Faculty

When: Wednesday, March 6, 2013 | 2:00 PM-3:30 PM
Where: University Library, Room 1126

Preparing a competitive, fundable grant proposal takes significant planning and skillful execution. This introductory session will focus on where to start the process, key components of a proposal, budget preparation, and what assistance is available. A Q&A session will follow the presentation.

Click here to register

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.

HEALTH RESEARCH AND SERVICES ADMINISTRATION

Understanding Clinical Information Needs and Health Care Decision Making Processes in the Context of Health Information Technology (R01): The purpose of this FOA is to express AHRQs interest in funding research aimed at elucidating the nature of cognition, task distribution, and clinical work in various health care delivery settings. Research projects will address current knowledge gaps regarding our understanding of health care providers information needs and health care decision making processes, both individually and as a health care team. The volume of clinical guidelines that health care teams are expected to incorporate into patient care is also rapidly increasing. Consequently, these teams must balance information, cognitive tasks, and workflow processes as they make health care decisions. While health IT has shown potential to assist and support health care teams with requisite tasks in a manner that improves the quality of care while minimizing risk and harm to patients, many health care organizations continue to struggle with the implementation and adoption of health IT. *Application deadline cycle is Feb.5, June 5, and Oct. 5, 2013*.

NATIONAL ENDOWMENT FOR THE ARTS

Grants for Art Projects – Arts Education: Art Works: "Art Works" refers to three things: the works of art themselves, the ways art works on audiences, and the fact that art is work for the artists and arts professionals who make up the field. The NEA recognizes that arts and design organizations are often in the forefront of innovation in their work and strongly encourage innovative projects which are characterized as: 1) likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art; 2) distinctive and offering fresh insights in their fields or the public through unconventional solutions; and 3) having the potential to be emulated, or are likely to lead to other advances in the field. Through the projects that the NEA supports in the Art Works category, it wants to achieve the following four outcomes: 1) Creation: The creation of art that meets the highest standards of excellence, 2) Engagement: Public engagement with diverse and excellent art, 3) Learning: Lifelong learning in the arts, and 4) Livability: The strengthening of communities through the arts. *Application deadlines are March 7 for community-based projects & August 8 for school-based projects.*

NATIONAL ENDOWMENT FOR THE HUMANITIES

Scholarly Editions and Translations Grants: Scholarly Editions and Translations grants support the preparation of editions and translations of pre-existing texts and documents of value to the humanities that are currently inaccessible or available in inadequate editions. These grants support full-time or part-time activities for periods of a minimum of one year up to a maximum of three years. Projects must be undertaken by a team of at least one editor or translator and one other staff member. Grants typically support editions and translations of significant literary, philosophical, and historical materials, but other types of work, such as musical notation, are also eligible. *Application deadline is December 5, 2013 although program staff recommend submitting applications by Oct. 30, 2013.*

NATIONAL INSTITUTES OF HEALTH

Genetic Screens to Enhance Zebrafish Research (R01): This FOA encourages applications designed to exploit the power of the zebrafish as a vertebrate model for biomedical and behavioral research. Applications proposing to develop new genetic screens of high priority to the zebrafish community that will advance the detection and characterization of genes, pathways, and phenotypes of interest in development and aging, organ formation, neural processes, behavior, sensory processes, physiological processes, and disease processes are welcome. In addition, applications for pilot projects seeking to adapt existing phenotypic screening to support high-throughput characterization of mutants generated by large-scale mutagenesis projects are encouraged. *Application deadline is September 19, 2013.*

NEI Clinical Study Planning Grant Program (R34): The National Eye Institute (NEI) supports large-scale clinical vision research projects, including randomized clinical trials and epidemiologic studies. At the time of submission, applications requesting support for these activities are expected to provide detailed information regarding the study rationale, design, analytic techniques, protocols and procedures, facilities and environment, organizational structure, and collaborative arrangements. This information is best conveyed in a well-documented Manual of Procedures (MOP), the development of which represents a costly and time-consuming activity. This NEI FOA is designed to facilitate activities central to the refinement of a study protocol and procedures and the development of a detailed MOP. The NEI Clinical Study Planning Grant may be used to support the development of a MOP, as well as to conduct preliminary studies to refine study procedures or document recruitment potential. Focus is on economic research designed to explain the diffusion of health technologies, both to understand trends in health outcomes and to improve the process leading from scientific advances to

health benefits. *Application deadlines are June 16 and October 16, 2013.*

Competitive Revision Applications for Research on Complementary Approaches to Symptom Management in Military and Veteran Populations (R01): This Funding Opportunity Announcement (FOA) seeks competitive revision applications (formerly called competitive supplement applications). Specifically, NCCAM is encouraging competitive revision applications to augment currently active NCCAM R01 grants. NCCAM-funded researchers are encouraged to collaborate with Veteran Health Administration (VHA) or Department of Defense (DoD) clinicians or researchers to conduct research on complementary approaches for symptom management and health in military or VA populations. The research proposed should be focused on complementary approaches to pain and symptom management or improving health in U.S. military personnel, veterans and their families. *Application deadline cycle is: Feb. 5, June 5, and October 5, 2013.*

NATIONAL SCIENCE FOUNDATION

Dynamics of Coupled Natural and Human Systems (CNH): The CNH Program promotes interdisciplinary analyses of relevant human and natural system processes and complex interactions among human and natural systems at diverse scales. The relevant NSF components are the Directorate for Social, Behavioral and Economic Sciences (SBE); the Directorate for Biological Sciences (BIO); and the Directorate for Geosciences (GEO). *Application deadline is Nov. 20, 2013.*

U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND PROSTATE CANCER RESEARCH PROGRAM

Idea Development Award: The award supports new ideas that represent innovative approaches to prostate cancer research and have the potential to make an important contribution to eliminating death and suffering from prostate cancer. Although groundbreaking research often involves a degree of risk, applications should be based on a sound scientific rationale that is established through logical reasoning and/or critical review and analysis of the literature. PIs do not have to be U.S. citizens. *Pre-proposals due by April 24, 2013; full proposals due by August 9, 2013.*

NOTE: *All faculty, researchers, and scientists on continuing contracts at IU interested in applying for Department of Defense funding are eligible for assistance by the consulting firm--Cornerstone Government Affairs-- arranged by the Vice President for Research. Those interested in securing assistance from Cornerstone must submit a 2 page summary of their research project and a CV or biosketch to the VP for Research Office at vpr@iu.edu . Prior to submission, the IUPUI Office of the Vice Chancellor for Research is offering assistance with the 2 page summaries. For more information, contact Ann Kratz akratz@iupui.edu.*

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.

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. Please contact Dee Metaj at 317-278-5644 if you have any questions regarding this list.

IU Authentication is required to view the following attachments:

IUF Special Handling List and Principal Gifts Review Template

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