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HOLIDAY GREETINGS FROM THE OFFICE OF THE VICE CHANCELLOR FOR RESEARCH



Dear Colleagues and Friends,

Our entire office wishes you and yours a joyous and peaceful Holiday Season and a New Year filled with happiness!

Happy Holidays!
Office of the Vice Chancellor for Research

FEATURE STORY

IUPUI Solution Center: Impacting the Community through Venture Fund Projects

Since 2007, the [Indiana University Public Policy Institute](#) (PPI), under contract from and in coordination with, the [Coalition for Homelessness Intervention and Prevention \(CHIP\)](#) has conducted a count of the persons experiencing homelessness in Marion County. The Department of Housing and Urban Development (HUD) requires every community that receives federal funds to aid the homeless to conduct such a count every two years during the last two weeks of January. This count occurs annually in Indianapolis.

Laura Littlepage teaches a service learning class, *Do the Homeless Count*, in which students actively participate in the annual Homeless Count by going into the community and assisting in counting homeless individuals. The IUPUI Solution Center provided a Community Venture Fund match to help support this large-scale community research project in 2011. Littlepage is a Clinical Lecturer, School of Public and Environmental Affairs and Senior Policy Analyst, Center for Urban Policy and the Environment.



Laura Littlepage, Clinical Lecturer, School of Public and Environmental Affairs and Senior Policy Analyst, Center for Urban Policy and the Environment

The 2010 Indianapolis Homeless Count found that 1,488 individuals were homeless on January 21 -- an increase of 2% from 2009. Combined with housing inventory data, the information collected in the count is used to provide legislators and policymakers with information on aspects of homelessness, identify gaps in service, aid in planning and program development, and assist in the process of making informed funding decisions.

DID YOU KNOW?

Award income for IUPUI for the year-to-date is up 12.3% compared to -2.3% for the IU system. The total amount requested in proposals submitted by IUPUI researchers in the month of November was \$40.4 M which is 17% less than the previous November.

ANNOUNCEMENTS

Signature Centers Initiative (SCI) Round 4 Call for Proposals

The Office of the Vice Chancellor for Research invites proposals for the Round 4 Signature Centers Initiative (SCI) competition. Initially implemented in 2006, the SCI was developed to create strong research units that are uniquely identifiable with IUPUI. The centers were created as an integral part of the Academic Plan for IUPUI, with the goal that they will lead the way in world-class research and creative activities that will substantially enhance IUPUI's reputation. The proposal submission deadline is April 1, 2011. For more information and to apply, please go to <http://research.iupui.edu/funding/>.

2010 IUPUI Research Report Released



The [2010 IUPUI Research Report: From Innovation To Impact](http://research.iupui.edu/) has been released. This report highlights a sampling of a broad range of research and creative activity carried out by IUPUI investigators in fiscal year 2010 and spotlights major initiatives, the outstanding research infrastructure supporting IUPUI Investigators and, how, through technology transfer and commercialization, IUPUI research outcomes are making an impact on economic development and social well being. To access the full report, go to <http://research.iupui.edu/>.

Save the Date - IUPUI Research Day

On April 8, 2011, the Office of the Vice Chancellor for Research will host its annual Research Day and encourages the IUPUI community to mark your calendars and plan to attend this year's event. More information will be announced in upcoming issues of the RESEARCH ENTERPRISE. Questions can be directed to Etta Ward at emward@iupui.edu or 317.278.8427.

TechPoint Innovation Summit Highlights

IUPUI was well represented at this year's [TechPoint Innovation Summit](http://www.techpointinnovation.com/), October 27, 2010, with six innovative research projects featured in Indiana University's exhibit at the Indiana Convention Center. IUPUI faculty whose work was showcased in the Innovation Exposition included the following:

[Davide Bolchini](#), Assistant Professor, Human-Computer Interaction, School of Informatics

[Jake Chen](#), Assistant Professor of Informatics and Computer Science, IU School of Informatics, and Director, Indiana Center for Systems Biology and Personalized Medicine and **[Xiaogang Wu](#)**, Visiting Research Scientist, Indiana University School of Informatics, Indiana Center for Systems Biology and Personalized Medicine, IUPUI

[Tax Georgiadis](#), Director of Synthesis, Chemical Synthesis & Organic Drug Lead Development Core-IU Simon Cancer Center, IUPUI

[Horia I. Petrache](#), Assistant Professor, Department of Physics, School of Science, IUPUI – with graduate student Luis Palacio

[Razi Nalim](#), Professor of Mechanical Engineering and Interim Associate Dean of Research and Graduate Programs, Purdue



Dr. Jake Chen and Dr. Xiaogang Wu discussed their work to advance "Predictive and Personalized Medicine with Systems Biology Solutions" at the TechPoint Innovation Summit.

School of Engineering and Technology, IUPUI

Many industry and higher education professionals stopped by the exhibit to learn about these innovative research initiatives. Faculty who participated for IUPUI appreciated the opportunity to network with Indiana economic development leaders and industry representatives, in addition to the opportunities they had to network with each other and colleagues from Purdue University and several other colleges and universities.

STUDENT SPOTLIGHT

MURI Scholars Reunite Community Residents through Ethnographic Research

Four scholars in the Multidisciplinary Undergraduate Research Institute (MURI), who had gained experience in a previous study aided in part by the Solution Center, last spring mentored undergraduates conducting an ethnographic study of Indianapolis's old Southside Babe Denny neighborhood. That neighborhood was once home to a range of racial and ethnic groups; the student project is focusing on two in particular, Sephardic Jewish immigrants and African-Americans. Sephardic Jews are Jews who trace their origins to Spain and Portugal prior to the edict of expulsion issued during the Inquisition in 1492. After that time, this particular community scattered mostly to southern Europe, Turkey, the middle east and northern Africa. Daniel W. Branstrator, junior in anthropology and geography; Margaret S. "Maggy" Baurley, senior in anthropology; Molly J. Dagon, senior in anthropology; and Stephanie M. Yarian, senior in anthropology and environmental health science, led peers in ethnographic fieldwork, including recording interviews with residents, scanning their old photos and other memorabilia and investigating archival sources.



Former Southsiders from both communities listen to research students' reports at a reception held at Etz Chaim Sephardic Congregation last May.

Since the 1920s, critical policy initiatives have changed Babe Denny's topography from that of a walkable, organically integrated neighborhood of houses and schools interspersed with mom-and-pop businesses to a freeway-bisected patchwork of dead-end streets, factories, stadium parking lots and gentrified historic houses. By the 1970s, the neighborhood had become primarily African-American; hence this population was disproportionately affected by the construction of I-70. One of the MURI scholars' mentees is pursuing this displacement in greater detail this year for her senior project in Anthropology.

Despite various disruptions to the neighborhood, each community has remained tightly knit. The current project is titled, "The Neighborhood of Saturdays" because of the Jewish observance of Sabbath on Saturday but also because former African-American residents of the neighborhood have held an annual reunion on the first Saturday of August for the past 35 years. Members of each of these communities, many of whom had not seen each other in 30 or 40 years, came together regularly to exchange memories of the old neighborhood and to look at each other's photos, school yearbooks and other materials. "Both communities have been so good-hearted in entering into this," said Associate Professor of Anthropology Susan B. Hyatt. "They have been very enthusiastic about collaborating with one another and with the students to see the history of the community preserved.

One of the MURI scholars, Stephanie Yarian, came up with an idea that allowed students an opportunity to digitally scan neighborhood materials. She suggested that "scan-a-thons" be held, where former Southsiders from both communities could come together to share their memorabilia while students scanned it. Former neighbors also engaged in a participatory mapping project, marking on plat maps the former locations of homes, businesses, and institutions. People reminisced fondly about teachers, families and gathering spots. Hyatt remarked that at the scan-a-thons, people saw photos of their own family members they had never seen before. "It was very touching," she recalled.



MURI Scholars Maggy Baurley and Stephanie Yarian scanning photos that the March 2010 scan-a-thon.

This ethnographic research project was a chance for students to see that they can be independent

researchers, participating in the process of collecting their own primary data and turning it into scholarly work. The high point of the project was when the four MURI scholars attended the spring conference held jointly by the Society for the Anthropology of North America and the Association for Black Anthropologists in Denver last April. "They were among a very few undergraduates who presented papers there," mentioned Hyatt. "They were the first panel and got so much attention." The class is working closely with Kristi Palmer and the Digital Libraries team to catalogue all of the material we have collected thus far and to set up an on-line digital museum that will be launched concurrently with the book, *The Neighborhood of Saturdays*. "It is tremendously rewarding to do this work," commented Hyatt. "Anthropology is such a great tool for explaining both how and why communities come apart and how they come together. We have seen a lot of the latter in this research, and it has meant a great deal to everyone involved."

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 highlights those receiving \$100,000 or more in external grants.

Grants and Awards - November 2010

PI	Agency	Project Title	School	Department	Total
BROXMEYER, HAL E	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Regulating hematopoietic stem cells and hematopoiesis for clinical efficacy	MEDICINE	GENERAL INTERNAL MEDICINE	\$3,609,316
NICULESCU III, ALEXANDER B.	NAT. INSTITUTES OF HEALTH OFFICE OF THE DIRECTOR	Developing Blood Tests for Mood Disorders	MEDICINE	PSYCHIATRY	\$2,310,000
ARLING, GREGORY WENDELL	AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	Evaluating a Comprehensive State-Level Model to Improve Nursing Home Quality	MEDICINE	GENERAL INTERNAL MEDICINE	\$1,462,514
HUDSON, JONIKA VONN	STATE STUDENT ASSISTANCE COMMISSION OF INDIANA	Twenty-first Century Scholars Regional Support Site	UNIVERSITY COLLEGE	UNIVERSITY COLLEGE	\$438,630
RUSSOMANNO, DAVID JAMES	UNIVERSITY OF MEMPHIS	Sensor Ontologies and Profiling Sensors for Wide-Area Surveillance	E&T	ENGINEERING & TECHNOLOGY	\$267,000
XU, XIAO-MING	CLEMSON UNIVERSITY	Tissue engineering for remyelination after spinal cord injury	MEDICINE	NEUROLOGICAL SURGERY	\$249,996
FRIEDMAN, ALLON	NATIONAL KIDNEY FOUNDATION INCORPORATED	OMEGA.3 FATTY ACIDS AND RISK OF SUDDEN CARDIAC DEATH RISK IN HEMODIALYSIS PATIENTS	MEDICINE	NEPHROLOGY	\$150,000
WILHELM, MARK O	UNIVERSITY OF NOTRE DAME	Causes of Generosity: Intergenerational and Community	LIBERAL ARTS	CENTER ON PHILANTHROPY	\$147,704
GOODPASTER, JOHN V	UNIVERSITY OF SOUTH CAROLINA	Evaluation of statistical measures for fiber comparisons: Interlaboratory studies and forensic databases.	SCIENCE	CHEMISTRY	\$139,848

OVCR INTERNAL GRANT DEADLINES

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, 2011**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

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, 2011**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

OTHER INTERNAL GRANT DEADLINES

011 Collaboration in Translational Research Pilot Grant Program

The Indiana Clinical and Translational Sciences Institute is now accepting applications for its 2011 Collaboration in Translational Research (CTR) Pilot Grant Program. The purpose of the Indiana CTSI CTR pilot grant program is to foster and encourage collaborations between entities at the three CTSI partner institutions (IU, Purdue and Notre Dame) and to initiate or continue translational research projects that have the potential to develop into larger, externally funded research programs or generate novel intellectual property (IP). Proposed projects should have participation by two (or more) principal investigators representing at least two of the sponsoring affiliates for this program. These include IUSM, IUPUI (non-IUSM), IU-Bloomington, Purdue University (West Lafayette) and the University of Notre Dame.

A Q&A session for interested CTR applicants will be available from 3:00 pm to 4:00 pm, Thursday, December 16, 2010 via teleconference. Moderators will be Simon Atkinson, Melanie DeFord, Bill Hetrick, Lillith Reeves and Tommy Sors. To participate, call 317.278.7008 and enter PIN number: 620681#. Individuals are asked to join the call for their specific question and hang up when answered so others may participate throughout the call. A summary of all questions will be posted on the HUB.

Submission deadline is **5:00 pm Monday, January 31, 2011**. Faculty from IU, Purdue, and Notre Dame are eligible to apply. To review detailed eligibility criteria by institution, see the [application guidelines](#). Applicants must [log in](#) to obtain forms and to submit a proposal.

WORKSHOPS AND EVENTS

SALT: Can Video Games Improve Your Health?

When: Wednesday, January 26, 2011 | 12:00 PM-01:00 PM
Where: Faculty Club

Presenter: Hadi Kharrazi, Assistant Professor, School of Informatics.

Dr. Kharrazi's work bridges the gap between medicine and computer sciences. He is the founder of the Health Games Research program at IUPUI, a group that conducts research on the development of hybrid health exergames that implement behavioral change intervention. A buffet lunch is available for \$10 inclusive of tax and gratuity.

Register: <http://faa.iupui.edu/newFaa/events/eventsRegistration.asp?id=2137>

SALT: Playing the Race Card Texas Style: History of Segregation, Sports Participation and Education in Cowtown (Fort Worth)

When: Wednesday, February 23, 2011 | 12:00 PM-01:00 PM
Where: Faculty Club

Presenter: Robin Hughes, Assistant Professor, School of Education

Dr. Hughes explores issues of race in higher education as well as the development of student athletes who participate in revenue generating sports. A buffet lunch is available for \$10 inclusive of tax and gratuity.

Register: <http://faa.iupui.edu/newFaa/events/eventsRegistration.asp?id=2138>

OTHER WORKSHOPS AND EVENTS

SALT: Development & Evolution of Sport Team Brands

When: Wednesday, December 01, 2010 | 12:00 PM-01:00 PM
Where: Faculty Club

"The Development and Evolution of Sport Team Brands: What We Can Learn from the Colts and Pacers" presented by James Gladden, Dean, School of Physical Education and Tourism Management. A buffet lunch is available for \$10 inclusive of tax and gratuity.

Register: <http://faa.iupui.edu/newFaa/events/eventsRegistration.asp?id=2136>

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CURRENT EXTERNAL FUNDING OPPORTUNITIES

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

NATIONAL ENDOWMENT OF THE HUMANITIES

Literature Fellowships: The NEA Literature Fellowships program offers \$25,000 grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable the recipients to set aside time for writing, research, travel, and general career advancement. *Application deadline is March 3, 2011.*

NATIONAL INSTITUTES OF HEALTH

Epidemiology and Prevention in Alcohol Research (R01, R03, R21): The focus is on the epidemiology of alcohol use, alcohol-related harms, and alcohol use disorders and the prevention of underage drinking, alcohol-related harms, and alcohol use disorders. Standard application dates apply.

Advances in Patient Safety through Simulation Research (R18): The Agency for Healthcare Research and Quality (AHRQ) is interested in funding a diverse set of projects that develop, test and evaluate various simulation approaches for the purpose of improving the safe delivery of health care. *Standard application dates apply.*

Technologies for Healthy Independent Living (R01): The focus is on research and development of technologies that monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These systems are expected to integrate, process, analyze, communicate, and present data so that the individuals are engaged and empowered in their own healthcare with reduced burden to care providers. *Application deadline is January 19, 2011.*

Getting from Genes to Function in Lung Disease, NHLBI (R01): The focus is on characterizing the function of gene(s) and their associated variants identified by genome-wide association studies (GWAS) or other genetic approaches to be involved in lung diseases. Studies should use integrated approaches across scientific disciplines to determine the pathobiological function of these genes. *Application deadline is February 5, 2011.*

Toward An Improved Understanding of HDL Function, NHLBI (R01): The focus is on developing,

validating, and standardizing assays to measure HDL function and biomarkers for HDL function and to identify novel genes, pathways, and potential HDL targets in the relationship to HDL function. Innovative methods to determine HDL functional properties such as in vivo reverse cholesterol transport (RCT), anti-oxidant, anti-inflammatory, and antithrombotic activities, and biomarkers for HDL function are encouraged. Projects that will explore HDL functional pathways, new genes and therapeutics related to HDL function are also encouraged. *Application deadline is February 5, 2011.*

OFFICE OF NAVAL RESEARCH

Basic Research Challenge: Novel Electronic Devices Based on Coupled Phase Transitions: The proposed topic will explore and exploit the use of coupled phase transitions in the context of electronic devices. The program will pursue an integrated development of materials exhibiting transitions, understanding of the physics governing the behavior of the transitions and novel device designs to harness the phenomenon for unprecedented performance, potentially on the femto-second timescale. *White paper deadline is February 3, 2011.*

NATIONAL SCIENCE FOUNDATION

Nano and Bio Mechanics: The Nano and Bio Mechanics Program supports fundamental research in biomechanics and mechanobiology. An emphasis is placed on multiscale solid and fluid mechanics approaches in the study of organisms that integrate across molecular, cell, tissue and organ domains. The relationships between mechanical behavior and extracellular matrix composition and organization are of interest. In addition, the influence of in vivo mechanical forces on cell and matrix biology in the histomorphogenesis, maintenance, regeneration, and aging of those tissues is a primary concern. Funded projects may include theoretical, computational, and experimental approaches. *Application deadline is February 15, 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/lisub/lisub.asp>. Please note that this is not a comprehensive list, and that any external funding opportunity that imposes any type of submission limitation is subject to the IU limited submission policy and procedures.

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

IU Authentication is required to view the following attachments:

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

[Principal Gifts Review Template](#)

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

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