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## September 2012 Highlights



IUURC 18 will feature students from all Indiana University campuses.

### IUURC18 is Fast Approaching: Submit Your Abstracts Now

The IUPUI CRL invites you to submit abstracts for the 18th annual Indiana University Undergraduate Research Conference on November 16, 2012. Abstracts must be submitted by October 10, 2012. The Indiana University Undergraduate Research Conference (IUURC), established in 1994, is dedicated to promoting undergraduate research, scholarship and creative activity, in all fields of study, which is performed in partnership with faculty or other mentors as a vital component of an Indiana University undergraduate education. This annual meeting for college students represents the eight campuses of Indiana University: IU Bloomington, IU East, Indiana University-Purdue University Fort Wayne (IPFW), Indiana University-Purdue University Indianapolis (IUPUI), IU Kokomo, IU Northwest, IU South Bend, Indiana University-Purdue University Columbus and IU Southeast. Abstracts will not be accepted if they are submitted after the deadline.

» [For more information, click here](#)



### 17th Annual Council on Undergraduate Research (CUR) Posters on the Hill Competition

**November 1, 2012 is the Abstract Submission Deadline for the 17th Annual Council on Undergraduate Research (CUR) Posters on the Hill Competition**

Nothing more effectively demonstrates the value of undergraduate research than the words and stories of the student participants themselves. In the spring of 2013 the Council on Undergraduate Research (CUR) will host its 17th annual undergraduate poster session on Capitol Hill. This event will help members of Congress understand the importance of undergraduate research by talking directly with the students whom these programs impact.

CUR is calling for students to submit an abstract of their research that represents any of CUR's disciplinary divisions (Arts and Humanities, Biology, Chemistry, Geosciences, Health Sciences, Mathematics/Computer Science, Physics/Astronomy, Psychology, and Social Sciences). In order to ensure proper review of applications, the above are the only disciplines that may apply. Should your research be inter-disciplinary, or in a subject not listed above, please select the division that most closely describes your research, if applicable.

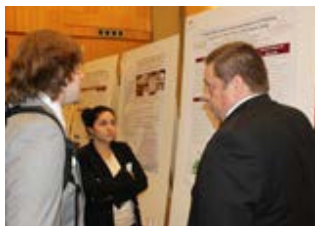
Abstract submissions will only be accepted by using our on-line submission form. Prior to submitting the form, students should gather the contact information for all co-authors, advisors and sponsors (if applicable), prepare a short vitae/resume, and poster abstract.

[View the submission requirements](#)  
[Get more information & submit an application](#)

Please note that CUR membership is required to submit an application. Either the student's home institution must have an institutional membership, or a faculty mentor or undergraduate research coordinator appearing on the submission must have an individual membership. We will not review incomplete applications or applications that do not satisfy the membership requirement.

Please be sure that both portions (the electronic application and the electronic recommendation letter) are submitted by November 1, 2012. Please encourage your students to submit. This is a highly competitive program, which makes for a very exciting experience for the students and their faculty advisors alike.

» [Get more information & submit an application](#)



MURI students work in teams to do their research.

## Call for Summer 2013 Multidisciplinary Undergraduate Research Institute (MURI) Proposals.

The Center for Research and Learning welcomes proposals for the [Summer 2013 Multidisciplinary Undergraduate Research Institute \(MURI\) at IUPUI](#). Proposals should represent two or more disciplines and should offer undergraduate students the opportunity to engage in a substantive research experience focused on a significant research problem.

This is a unique opportunity provided to IUPUI faculty and researchers for mentoring students while conducting pilot projects or testing new techniques and designs.

### Some key points regarding this year's program are as follows:

Faculty writing proposals are encouraged to review the document entitled [MURI FAQ's for Faculty Submitting Proposals](#).

Proposals must be submitted by using the current version of the [MURI Project Proposal Form](#).

The MURI Review Committee will review the submitted proposals using the [MURI Proposal Evaluation Form](#) (log in with IUPUI username and password).

Graduate students and post-doctoral trainees also may serve as co-mentors on a team.

Proposals are due by midnight on November 16, 2012, to [CRLGrant@iupui.edu](mailto:CRLGrant@iupui.edu)

The Proposal Review Committee Meeting currently is scheduled for December 7, 2012.

The announcement re: funded proposals is currently scheduled for December 14, 2012.

Students may apply to MURI and rank their project choices beginning December 17, 2012, with a deadline of March 1, 2013.

The summer program begins on May 31, 2013, and continues through August 2, 2013.

MURI is jointly funded by the Center for Research and Learning, a division of the Office of the Vice Chancellor for Research, and the School of Engineering and Technology.

Project proposals from [all disciplines](#) from IUPUI and IUPUC are encouraged.

» [For more information, click here](#)

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## Spotlight on Tsungai Chingombe

Tsungai Chingombe, a junior studying chemistry in the department of Chemistry and Chemical Biology at IUPUI - Purdue School of Science, found



Tsungai Chingombe was a UROP Summer Fellow and has been doing research for a while.

her way into research at IUPUI through the Center for Research and Learning's Undergraduate Research Opportunities Program (UROP). "The idea of working in a lab and using real experimental apparatus to discover new ideas intrigued me," says Tsungai. "It was a given for me; I wanted the experience. UROP allows me to work with a research mentor on a specific project, giving me the opportunity and platform to develop my academic and professional career through working in a lab. The program provides strong commendable academic and professional networking with other professors and mentors in the field of research, and allows me to present my work at professional meetings, enhancing my public speaking skills and awarding me the opportunity to exhibit my work. Undergraduate research broadens one's perspective on what the scientific world has to offer and provides various opportunities to excel in both the academic and the professional field."

Tsungai works with her mentor, Dr. Mary Beth Brown, investigating the acute effect of treadmill exercise in a rodent model of pulmonary arterial hypertension. There is currently no cure for pulmonary arterial hypertension, but exercise could be a therapeutic intervention, improving endothelial function, exercise capacity, and quality of life. Dr. Brown states, "I frequently have to remind myself that [Tsungai] is an undergraduate, because she conducts herself in the lab with the professionalism and dependability of a far more advanced student."

» [For more information on UROP, click here](#)



Dr. Mary Beth Brown is a dedicated researcher and physical therapist.

## Featuring Dr. Mary Beth Brown

Mary Beth Brown, Ph.D., has practiced as a physical therapist for almost a decade prior to pursuing her Ph.D. and a career in academia. Her clinical years were spent primarily in the outpatient hospital setting, with a specialty in evaluation and treatment of sports injuries, especially overuse injuries in endurance athletes, as well as in aquatic therapy and vestibular rehabilitation. She has served as a center coordinator for clinical education, and had the opportunity to open and manage two new hospital outpatient rehabilitation clinics.

Her overall research interest is in exercise as a therapeutic intervention for diseased and disabled populations. "Exercise," she says, "is an underutilized medicine, in part because so little data exists to assist practitioners in its appropriate prescription for specific patient groups." She also has a broad background in exercise physiology research for patient populations.

"It has been exceptionally amazing working with her," says Tsungai Chingombe, discussing her mentor. "Dr. Brown is so driven and has impeccable ideas of bringing solutions to diseased and disabled populations. Dr. Brown is always encouraging and provides a friendly environment for me to work in. She is not only involved in my research work, she takes time to mentor me about my ambition, interests, and all else that I am working on. She truly has my best interest at heart and is always looking for nothing but the best opportunities for me to reach the heights of success."

» [For more on Dr. Brown, click here](#)



## Innovation-to-Enterprise Central Starts to Work

This week launched the second year of the IUPUI Innovation-to-Enterprise Central (ITEC) program for student business development teams. The ITEC program allows IUPUI researchers and scholars with ideas in various stages of enterprise development to work with a multidisciplinary team of students to explore in depth the market potential for a product that might arise from

ITEC and all CRL Programs are based in UL 1140.

the program. These projects involve meaningful opportunities for students to become involved in the "innovation-to-enterprise" process beyond what they typically would encounter in existing academic coursework or other campus activities.

➤ [For more information on ITEC, click here](#)



Tomas Meijome is a DSRP Scholar and was the recipient of the Bowling-Jones Russo Researcher Award.

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## Congratulations, Student Presenters!

The Center for Research and Learning congratulates School of Science senior **Tomas Meijome**, a Diversity Scholars Research Program (DSRP) Scholar, on his acceptance to the following conferences to present his research!

**Ivy Plus STEM Symposium** – October 4-6, 2012 – University of Pennsylvania, Philadelphia, PA: This conference is designed to encourage undergraduate students to pursue advanced training in STEM fields. (<http://www.upenn.edu/IvyPlusSymposium/>)

**American Society for Bone and Mineral Research (ASBMR) Annual Meeting** – October 12-15, 2012 – Minneapolis, MN: The ASBMR 2012 Annual Meeting features state-of-the-art lectures, clinical roundtables and plenary oral presentations from leaders in the bone and mineral field. <http://www.asbmr.org/meetings/annualmeeting.aspx>

**American Biomedical Research Conference for Minority Students (ABRCMS)**– November 7-10, 2012 – San Jose, CA: During the four-day conference, over 1,500 students participate in poster and oral presentations in twelve disciplines in the biomedical and behavioral sciences, including mathematics. <http://www.abrcms.org/index.html>

➤ [For more information on DSRP, click here](#)

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