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DIAC



the US Army.

Dean's Message

The Purdue School of Engineering and Technology, IUPUI, recently hosted Senator Richard Lugar for the announcement of the Richard G. Lugar Center for Renewable Energy. This center is a result of funding received from Vice Chancellor Uday Sukhatme's signature center initiative and a multi-year \$4.5 million grant from

Andrew Hsu, Associate Dean for Research and Graduate Programs and Director of the Richard G. Lugar Center for Renewable Energy said the project would help reduce reliance on fossil fuels and foreign oil and therefore enhance national energy security. Ethanol can be made from corn and other agricultural products and transformed into hydrogen to power fuel cells. The by-product of ethanol fuel cell reaction is water and carbon dioxide.



The Richard G. Lugar Center for Renewable Energy was established to address societal needs for clean, affordable and renewable energy sources, improve the nation's energy security, and reduce global warming. Its primary mission is to promote research excellence in the area of renewable energy through collaborative efforts among faculty in the disciplines of engineering, chemistry, physics, biology, and environmental affairs; the promotion of teaching, learning, and civic engagement; and synergistic partnerships with industry and local communities.

I am most impressed with the work of our esteemed faculty and strongly believe in the work

of the Center. Please feel free to contact Dr. Hsu if you have questions or suggestions regarding renewable energy at anh-su@iupui.edu. Additional information can be found at www.LugarEnergyCenter.iupui.edu.

I hope you are enjoying the spring season!

Fondly,

H. Öner Yurtseven, Ph.D.
Dean

Kurush Savabi named Top Male Student at IUPUI

The annual IUPUI Top 100 Awards dinner sponsored by the IUPUI Alumni Council and the Student Organization for Alumni Relations



(SOAR) was held Friday, April 4. There were 16 students honored from the Purdue School of Engineering and Technology, IUPUI. Three women from the School were named in the Top 10 females and four men were named in the Top 10 males.

The Top IUPUI Male was awarded to Kurush Savabi a senior enrolled in the Department of Mechanical Engineering. This marks the third

consecutive year that a male from the School of Engineering and Technology received this prestigious recognition. Congratulations to all our outstanding students!

E&T Top 100 Students

- Adam Maina Ari, Electrical and Computer Engineering
- Nilashis Dey, Electrical and Computer Engineering
- Hazel Gomes, Biomedical Engineering
- Brandon Harville, Mechanical Engineering
- Aleksandr Kotlyar, Computer Information Technology
- Rachel Meyer, Biomedical Engineering
- Ibraheem Nezamuddin, Mechanical Engineering
- Derek Ogle, Construction Technology
- Joel Phelps, Electrical and Computer Engineering
- Laura Robertson, Construction Technology
- Asia Smith-Bey, Design Technology
- Eddie Shmukler, Biomedical Engineering
- Gaoussou Tamboura, Electrical and Computer Engineering
- Breanne Walters, Mechanical Engineering
- Zeb Wood, Computer Graphics Technology



Indiana University Announces New President

Indiana University recently announced the election of Michael McRobbie as the 18th President. Michael McRobbie, who holds a faculty position at the Purdue School of Engineering and Technology, IUPUI, most recently served as interm Provost on the Bloomington campus. Additional information on President-elect McRobbie can be found at <http://newsinfo.iu.edu/news/page/normal/5034.html>.



Magnet School Proposal with Indianapolis Public School System

An Engineering Magnet School: A Collaborative Effort Between Indiana University Purdue University Indianapolis (IUPUI), Indianapolis Public Schools (IPS) and Local Industries
Dr. Sam White, Jr.

In mid 2006, Indianapolis Public Schools (IPS) under the leadership of its superintendent, Dr. Eugene White, launched an initiative aimed at providing paths to Engineering and Technology careers for a larger portion of its students. The assistance of IUPUI and local industries was solicited. The Purdue School of Engineering and Technology, IUPUI, viewed this initiative as an opportunity to address dismal recruiting and retention rates of

underrepresented students majoring in engineering and technology by working directly with pre-university students and faculty on increased student interest in careers in engineering and technology as well as pre-university student academic preparation. IPS, IUPUI and local industries joined forces to develop an

engineering magnet 'track' for IPS. The goal of this effort is the establishment of a 'pipeline' to careers in engineering and technology professions for IPS students. A committee of representatives from these organizations assembled under the name: "Pathways to Engineering" symbolizing an effort aimed at providing multiple paths for IPS students to pursue careers in engineering and technology. This effort is part of a national effort aimed at increasing the number of US citizens pursuing science and engineering studies and careers. In a statement by the National Science Foundation¹: "The success of this effort is critical to providing a workforce that is prepared to ensure a healthy economy, respond to demands for national security, and maintain and elevate the quality of life and standard of living in the US through technological and scientific advancements". For the Purdue School of Engineering and Technology, success of this effort would yield stronger pre-university preparation in mathematics and science and ensure that participating students are prepared to enter and successfully matriculate in engineering and technology college curricula.

The project preparation began with the establishment of pre-university curricula that, once completed, would satisfy the prerequisites for engineering study. Courses needed to satisfy prerequisites along with inputs from the Corporate Member Council (CMC) of the American Society for Engineering Education (ASEE), whose membership includes a member of our 'Pathways' committee. The CMC developed national content standards for K-12 engineering/engineering technology. These standards along with Indiana state educational standards were incorporated into a pre-university curriculum that spans grades 5 through 12. The curriculum, which was developed jointly by elementary, middle and high school teachers with inputs from IUPUI, had the additional goal of providing 'seamless' transitions from elementary through high school for participating students. This curriculum, supplemented with required 'Gateway to Technology' courses during middle school and 'Project Lead the Way' courses during high school is be augmented by 'hands-on' experiences that are to be developed by IUPUI and local industries and offered year-around.

Student selection from a pool of students that have completed 4th grade at four elementary schools (IPS schools #46, 57, 96 and 103) is scheduled during the spring of 2007. The selected students will begin the program in the fall of 2007 in grade 5. Upon completion of grade 6, participating students would then enter grade 7 at Harshman Middle School and complete high school at Arsenal Technical High School, which is designated as the math – science academy for IPS.

Teacher professional development, which is a critical component of this effort, is slated to begin in the spring of 2007 followed by summer camps with pre-university teachers and administrators. These efforts will be the result of collaboration with faculty in the Indiana University School of Education, IUPUI, as well as University of Indianapolis faculty.

Additional benefits to the Purdue School of Engineering and Technology resulting from participation in this effort is anticipated in modifications to our existing Minority Engineering Advancement Program (MEAP). Such modifications, which would be necessary to support students enrolled in the engineering magnet, would allow the school to focus MEAP on pre-university student academic preparation on a year-around basis.

1. National Science Foundation Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) program solicitation.



MET Chair Named Outstanding Alumnus

On February 22, Dr. Mark Bannatyne was named the 2007 Outstanding Alum at an awards ceremony at Utah State University, where he studied. Dr. Bannatyne currently serves as the chair of the Department of Mechanical Engineering Technology at the Purdue School of Engineering and Technology, IUPUI. Congratulations Dr. Bannatyne!

Rack N' Roll

On Saturday, January 6, the Purdue School of Engineering and Technology, IUPUI, held the FIRST Robotics kick-off event with a record turnout with over 280 participants including students, and team leaders. This year's theme, Rack N'



students worked with mentors over six weeks to design, build and test their robots for team competition, beginning in regional competition, and moving into nationals. For additional information, click [here](#).

Roll, featured a design in which robots pick up and hang inflated colored tubes on pegs configured in rows and columns on a 10-foot high center rack structure, during an action packed team competition in March 2007.

It is estimated over 32,500 high-school students on 1,300 teams both local, National and international participated in the competition. The



National Engineers Week

National Engineers Week held February 19-23 was celebrated by the Purdue School of Engineering and Technology, IUPUI, with a plethora of fun activities. The week included workshops for students on resume building, recruitment activities for high school students, a chili bowl and speaker NASA astronaut Dave McKittrick. The week ended with the annual Project Lead the Way student conference for over 600 students. For more details on National Engineers Week, click [here](#).



OLS Student Makes IUPUI News

Nathaniel Spaulding, a student in the Department of Organizational Leadership and Supervision. Recently, he was in the news at IUPUI for his outstanding devotion to IUPUI and higher education. Spaulding began working for Campus Facility Services at IUPUI in 1999, and plans to complete his associate degree in OLS in 2007. His dream is to be a professor at IUPUI. For the complete article, click [here](#).

Student Spotlight

Cameron Jiles
Department: Electrical and Computer Engineering
Major: Computer Engineering
Degree: Bachelor of Science
Anticipated Graduation Date: August 2007

Where are you originally from?
I'm originally from Indianapolis, where I attended North Central High School



and graduated in 2003 with an Indiana Academic Honors Diploma.

What have you enjoyed most about the Purdue School of Engineering and Technology and IUPUI?

The thing I like most about the School of Engineering and Technology is the chance to interact with fellow engineering students and faculty in coordinated activities and projects. I also like conducting research with my mentor for the Diversity Scholars Research Program (DSRP).

Tell us about your major.

My major has taught me many aspects of engineering that I didn't know existed when I first entered IUPUI. I've learned various techniques on how to solve specific problems. I believe that being a Computer Engineering major has prepared me for working in industry.

What has been your favorite class and why?

Senior Design (of course), because I've been exposed to the perspective of a working engineer while gaining real world experience and introduction to applications and challenges in industry.

What are your career plans?

First I hope to get a job (laugh)! From there, I will probably apply for graduate school to either get my master's in engineering or an MBA.

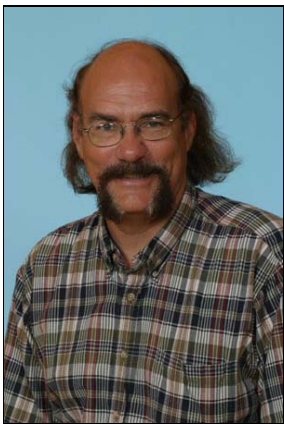
Do you have a motto you live by or a saying you use often?

"Bend, Don't Break" (From my high school football days)

No matter what life throws at you, you may stray from your goal a little bit, but you always persevere.

What do you do in your free time?

I like to work out. I also like to play and listen to music, draw, and fix things around my place. Recently, I've been working on writing a novel.



Faculty Spotlight

Peter Hylton

Assistant Professor, Mechanical Engineering Technology
The Sports Car Club of America (SCCA) recently presented its highest honor, the Woolf Barnato Award, to Assistant Professor Pete Hylton of the Department of Mechanical Engineering Technology. The award, which recognizes life long contributions to motorsports, was presented at SCCA's annual convention, where Hylton was serving as the Master of Ceremonies, and where he announced the upcoming publication of his second book on the history of American sports car racing, "Ghost Tracks of the SCCA." He published a 60th Anniversary history book on SCCA in 2005.

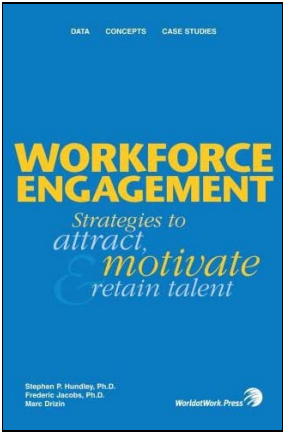
Hylton is recognized as the leader of the IUPUI Motorsports Program, having created the IUPUI Motorsports Technology Certificate, several motorsports related classes, and numerous student projects. He has held a competition

driver's license for over 25 years, and his most recent win came last fall at the wheel of the student project racecar, built as part of the campus motorsports program. Additionally, students know him for his eclectic interests, his cowboy boots and western apparel, and his love of Irish and American Folk music, which can almost always be heard playing in his office.

In addition to the motorsports classes, Hylton teaches several structural mechanics classes as well as the MET Senior Design course. He has been actively involved in development of pre-engineering courses for middle and high school students pursuing careers in engineering and technology. Prior to joining IUPUI full-time four years ago, Hylton was an adjunct professor for six years, teaching one night class per semester, for which he was awarded the Outstanding Associate Faculty Award in 2000. During that time, he worked for Rolls-Royce Corporation. In his 25 year career with Rolls-Royce (and its predecessor, Allison Gas Turbines) Hylton served in capacities ranging from manager of dynamics and acoustics, to chief design engineer for Rolls-Royce Helicopters, to integration manager for the Joint Strike Fighter program.

Hylton's research interests, in addition to motorsports, include the dynamics of high speed rotating systems, a specialty that he pursued while in the aerospace industry and in which he is still involved today. A graduate of Rose-Hulman Institute of Technology (BSME) and Purdue University (MSME), Hylton is currently on his way to completing a second masters degree, at IUPUI, in Applied and Industrial Mathematics.

Pete and his wife, Wendy, spend their free time running a bed and breakfast in Brownsburg, IN called The Old MG. For more information on The Old MG, click [here](#).



Workforce Engagement

Associate Professor of Organizational Leadership and Supervision, Stephen Hundley, Ph.D., recently published a new book on workforce engagement which addresses retention problems among other issues related to attracting, motivating and retaining employees. For more information click [here](#) or contact Dr. Hundley at shundley@iupui.edu or 317-274-2876.

E&T Night – IUPUI vs. Valparaiso

On February 8, IUPUI defeated Valpo for **E&T Night** ! This special night was sponsored by the Purdue School of Engineering and Technology, IUPUI, and the Purdue School of Engineering and Technology Alumni Association. For more information on the Jaguar Basketball season and IUPUI Athletics check out <http://www.iupuijags.com> . **Go Jags!**



Class Notes

Anything new since graduation? Let us know about your outstanding accomplishments by sending your updated information to Paula Jenkins, assistant dean for development and external relations at pj@iupui.edu or 317-274-8807, or fill out our online form at <http://www.engr.iupui.edu/alumni/classNotes.shtml>

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