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E-Dimensions: Issue 6, July 2008

Dean's Message

I hope this electronic newsletter find you well and enjoying the summer! Contrary to popular belief, summer is always a busy time here at the Purdue School of Engineering and Technology, IUPUI. Currently, there are several administrative changes taking place. After two years of service as Interim Associate Dean for Undergraduate Programs, Bill Conrad, professor of electrical and computer engineering technology, will return to his appointment in the Department of Engineering Technology. In addition, Dr. Andrew Hsu, associate dean for research and graduate programs, director of the Richard G. Lugar Center for Renewable Energy, and professor of mechanical engineering, has been selected as an American Council of Education (ACE) Fellow for the 2008-09 academic year. As an ACE fellow, he will spend the year at The Ohio State University shadowing President Gordon Gee to become more acquainted with the policies and procedures of higher education administration. Dr. Hasan Akay, chancellor's professor of mechanical



engineering, will serve as the interim associate dean for academic programs and research. In this capacity, he will be responsible for both undergraduate and graduate academic programs, as well as research. As Dr. Akay has assumed his new role, Dr. Jie Chen, professor of mechanical engineering, has become the new Chair of the Department of Mechanical

Engineering, with Dr. Razi Nalim,

associate professor of mechanical engineering, as the associate chair. Likewise, Stephen Hundley, associate professor of organizational leadership and supervision, will become the new Chair of the Department of Computer, Information, and Leadership Technology on August 1, 2008, as Cliff Goodwin, associate professor of organizational leadership and supervision, will return to his full-time faculty role.

I am pleased to welcome the School



of Music at IUPUI to the Purdue School of Engineering and Technology, IUPUI family. On July 1, 2008, the Music Program became our seventh academic unit in the School as the Department of Music and Arts Technology. G. David Peters, professor of music and arts technology, will serve as Chair of the department. The department currently offers a Master of Science in Music Technology, a Master of Science in

Music Therapy, and a Music Minor. The Bachelor of Science degree is pending approval by the Indiana Commission for Higher Education.

Another exciting development in the School is the approval of a Bachelor of Science in Motorsports Engineering by the Indiana Commission for Higher Education. IUPUI is the first university in the nation to offer a bachelor's degree in motorsports engineering. This degree program will be offered to students beginning fall 2008.



Between May and August graduates this year, the School will confer 102 certificates, 114 AS degrees, 378 BS degrees, and 76 MS degrees – a total of 568 degrees! Approximately 250 of these students attended the post-commencement ceremony for the School at the Indiana Convention Center. Please join me in congratulating our graduates and welcoming them to our alumni family.

Warm Regards,

A handwritten signature in black ink, appearing to read 'H. Öner Yurtseven'.

H. Öner Yurtseven, Ph.D.
Dean

Two New Signature Centers Named

Two of the ten proposals selected for funding in the second round of the Signature Centers Initiative at IUPUI, were from the Purdue School of Engineering and Technology, IUPUI. The invitation for proposals for the second round of funding yielded 54 proposals in total. In January 2007, the School's first signature center was established, the Richard G. Lugar Center for Renewable Energy. The Transportation Active Safety Institute and the Biomechanics and Biomaterials Research Center will join the Lugar Center as the School's prestigious signature centers.

The Transportation Active Safety Institute (TASI) will advance the use of active systems in automotive safety. Active safety systems can be effective in both preventing crashes and in saving the lives of drivers and passengers involved in accidents. Faculty with expertise in vehicle control, sensor networks, wireless communications, and physiology will collaborate to develop new and effective systems that bridge the gap between research

and the development of consumer applications that enhance the safety of automobiles. Dr. Yaobin Chen, professor and chair of electrical and computer engineering, is the director of TASI.

The Biomechanics and Biomaterials Research Center will foster new research collaborations among scientists, engineers, doctors and dentists in the emerging fields of mechanobiology and tissue engineering. Researchers in the center are engaged in the study of biomechanics, the principles that allow us to understand how human bone and tissue respond to outside forces. The center will develop multi-disciplinary research teams that perform basic research in bone and tissue growth and function, and strive to develop novel treatments to engineer the repair or replacement of damaged tissues and organs. The director is Charles Turner, chancellor's professor of biomedical engineering.

Interior Design Technology BS Degree Program Receives CIDA Accreditation

The Purdue School of Engineering and Technology, IUPUI is pleased to announce that the Interior Design Technology-BS program has received full accreditation by the Accreditation Commission of the Council for Interior Design Accreditation (CIDA). This was the program's first application for accreditation, which makes this quite an important and significant accomplishment. Congratulations to the faculty, student, graduates, advisory board members, staff, and administrators of the Interior Design Technology Program, the Department of Design and Communication Technology, and the Office of Academic Programs. For additional information about CIDA, please visit <http://www.accredit-id.org/>.



Award Winning IUPUI at ASEE Conference

Several faculty, staff, and students from the Purdue School of Engineering and Technology, IUPUI attended the American Society of Engineering Education (ASEE) Conference in June, which was held in Pittsburg, PA. ASEE is an international organization of faculty, staff, and students engaged in teaching and promoting Engineering and Engineering Technology

Education.

Nancy Lamm, assistant professor of engineering and director of freshman engineering, and Janet Meyer, academic specialist and part-time lecturer, Purdue School of Engineering and Technology, IUPUI, and Dr. Joshua S. Smith, assistant professor, School of Education, IUPUI, were presented with the 2007 ASEE Annual Conference & Exposition Best Paper Award for their paper entitled *Retaining Freshman Engineering Students Through Participation in a First-Year Learning Community: What Works and What Doesn't*.

Pat Fox, clinical assistant professor of organizational supervision and leadership, received the highly-prestigious McGraw Award, which recognizes outstanding service in engineering technology education. Not only has Fox demonstrated years of excellent service to the School, but has also dedicated much of her time and talent to her work with ASEE. Fox has held many leadership roles within ASEE including First Vice President, Vice President for External



Relations, and Vice President for Institutional Councils. Fox's dedication to engineering technology education can be seen through her commitment to her work, such as collaborating with the Engineering Technology Council and the Engineering Technology Division to produce the

National Engineering Technology Faculty Salary Survey for the past 28 years! In addition to several faculty papers delivered, two students—Amanda O'Neill and Sheila Walter (also a Purdue School of Engineering and Technology, IUPUI staff member) co-authored and delivered papers.



IUPUI Opens New Campus Center

Several decades of dreams from generations of IUPUI students, faculty, staff, and alumni were turned into reality with the opening of the \$56 million IUPUI Campus Center during the spring 2008 semester. Many campus offices and units were relocated to the Campus Center including the offices of the Registrar,

Admissions, and Financial Aid, as well as the Barnes and Noble Bookstore, the Student Life/Dean of Students suite, and the Student Organization Center. The five-level, 216,000-square-foot building also houses a new food court, student lounges and study areas, conference rooms, a game room, and theatre. The vision of the Campus Center is to create and enhance a sense of place and community on an urban university campus where learning, diversity, and tradition are respected, cultivated and honored, while the mission of the Campus Center is to complement the academic mission of Indiana University-Purdue University Indianapolis and enhance the campus community in service, partnership, and collaboration with students, faculty, staff, and the greater Indianapolis community.

Yurtseven Receives John W. Ryan Award for Distinguished Contributions to International Programs and Studies
The John W. Ryan Award for Distinguished Contributions to International Programs and Studies was initiated in 1991 in honor of John W. Ryan, president of Indiana University from 1971 to 1987. During his tenure, Ryan was instrumental in fostering IU's commitment to excellence in international education. Two faculty members or librarians from any of the eight Indiana University



campuses are selected annually as recipients for their exceptional contributions to the university's international programs and studies. Dr. Yurtseven has been very instrumental in harvesting a successful relationship between IUPUI and

Malaysia, while also focusing on international recruiting efforts, which in turn, has more than doubled the number of international students enrolled in the Purdue School of Engineering and Technology, IUPUI since he became dean. Congratulations to Dean H. Öner Yurtseven for being selected as a 2008 recipient of the John W. Ryan Award!



Going Green Symposium

The Purdue School of Engineering & Technology, IUPUI Alumni Association co-sponsored the *Going Green Symposium* on April 24, 2008 with the Alumni Associations of the Schools of Continuing Studies, Public and Environmental Affairs, and the Kelley School of Business. The symposium featured a panel discussion on how to

incorporate green practice into daily life, with topics including investing green, eating green, building green, teaching green, and living green. Pat Fox, clinical assistant professor of organizational supervision and leadership, served as a panelist to discuss teaching green, while Stephen Hundley, associate professor of organizational supervision and leadership, managed the evening's discussion as moderator.

Annual Bepko Honors Convocation

The Purdue School of Engineering and Technology, IUPUI, celebrates its outstanding and talented students each year at the Annual Bepko Honors Convocation. This year's event was held at the Crowne Plaza Hotel on April 11, 2008. Thanks to the generosity of the School's alumni and friends, as well as the Campus, nearly \$400,000 was awarded this year to over 150 need based and high achieving students from the School.

San Antonio Spurs select IUPUI's George Hill in First Round

IUPUI history was made on June 26, 2008, when George Hill was selected 26th overall by the San Antonio Spurs in the 2008 NBA Draft. Hill is the first player in IUPUI's basketball history to be drafted to the NBA and only the



ninth in the Summit League -- formerly the Mid-Continent Conference. His first round pick makes him only the second player in league history to be selected in the first round. He describes the moment his name was called by saying, "I was

speechless. I didn't even hear my full name called. Everyone around me just reacted."

In March, Indianapolis native and Broad Ripple High graduate Hill was selected as the 2008 Summit League Player of the Year. After completion of his fourth year as a Jaguar-redshirted due to a broken foot his third year- Hill declared early entry into this year's draft. The 6-foot-2 guard articulates this accomplishment as a childhood dream and exclaims, "I am excited to be going to a class organization like the Spurs." More information about George Hill's career at IUPUI and his future with the San Antonio Spurs can be found at <http://www.iupui.edu/spirit/georgehill/>.



Donor Spotlight: Robert and Marjorie Begeman

Robert and Marjorie Begeman are as committed to the Purdue School of Engineering and Technology, IUPUI as they are to each other, having been married 52 years. His avid interest in taking electrical appliances apart led to his educational pursuits at Purdue University and a life-long career at the Naval Avionics Facility; while her

education culminated in a degree in physical therapy at the University of Southern California and a career of helping others. As valued partners in our Indianapolis community, they are assisting the School with their unique international constituency, sharing their resources, and giving back to the world community by aiding deserving international students from developing countries in continuation of their education. In 2005, they established the Robert and Marjorie Begeman Scholarship which will have long-lasting impact on the School and its international students of today, citizens of tomorrow.

IUPUI team Finishes First at Purdue Grand Prix

The two IUPUI Motorsports Club entries stunned the thirty-one West Lafayette campus entries in the 51st running of the Purdue Grand Prix on April 19, 2008. First place driver, Jon Laski, an IUPUI Mechanical



Engineering Technology student, led much of the race, giving IUPUI its first win. Lyndsey Tilton, another MET student, was in third place until she was involved in a serious crash during the second to last lap. Tilton was

transported to Lafayette's St. Elizabeth Hospital, before being released later that night. Fortunately, no serious injuries were detected.

The karts were both entered by the IUPUI Motorsports Club and all crew members were IUPUI students, most of them pursuing either the IUPUI Motorsports Technology Certificate or the new Motorsports Engineering bachelor's degree. Team members included the two crew chiefs, Herb Payton and Todd Wilson, and crew members Chris Proctor, Justin Penix, Casey Andis, Edgar Torres, Caitlin Siem, Brandon Hess, Kyle Doran, Eric Shirar, Brittney Redleman, and Nick Hawes.

For more information on the IUPUI Motorsports program, contact IUPUI Motorsports Director, Pete Hylton, 317-274-7192, or phylton@iupui.edu.



Rachel Meyer named Top Female Student at IUPUI
The annual IUPUI Top 100 Students Award dinner sponsored by the IUPUI Alumni Council and the Student Organization for Alumni Relations (SOAR) was held Friday, March 28, 2008. 16 students were honored from the Purdue School of Engineering and Technology, IUPUI. One woman from the School was named in the Top 10 females and three men were named in

the Top 10 males. The Top IUPUI Female was awarded to Rachel Meyer (BSBME '08) a recent graduate from the Department of Biomedical Engineering. Congratulations to all our outstanding students and their respective departments!

Purdue School of Engineering and Technology, IUPUI Top 100 Students

Rex Bennett, Electrical and Computer Engineering*

Robert Frye, Engineering Technology

Darrell Goodwin, Mechanical Engineering*

Hazel Gomes, Biomedical Engineering

Deven Kaufman, Engineering Technology

Kellen Knowles, Biomedical Engineering

Aleksandr Kotlyar, Computer, Information, and Leadership Technology

Lora Perry, Biomedical Engineering

Laura Robertson, Design and Communication Technology*

Marina Sichuga, Design and Communication Technology

Asia Smith-Bey, Design and Communication Technology

Eddie Shmukler, Biomedical Engineering*

Diana Vasquez, Electrical and Computer Engineering

Nathan Wagers, Mechanical Engineering
Brian Wilcox, Computer, Information, and Leadership Technology
*Denotes Top 10 Student



Student Spotlight- More with IUPUI's Top Female Student Rachel Meyer
Major: Biomedical Engineering
Degree: BSBME '08, MS in Biomedical Engineering
Anticipated Graduation Date: May 2010
Rachel Meyer is among the first undergraduate graduating class from the Department of Biomedical Engineering this past May with her Bachelor of Science in Biomedical Engineering. She also served as the first student speaker at this year's Purdue School of Engineering and Technology, IUPUI Post-Commencement ceremony. During her undergraduate career at IUPUI, Meyer complemented her academic coursework with undergraduate medical research, internship experiences, campus activities and organizations, and civic/community service.

Meyer's favorite part of being a student in the School is all of the opportunities to be involved on campus. While she is amazed as she reflects upon all of her accomplishments as an undergraduate student, she attributes them to the support and encouragement from the School's faculty and staff. When asked if any of her professors influenced her, Meyer responded, "Dr. Karen Alfrey is a great mentor and a great professor. She was always willing to help me with understanding hard subject material. She was someone I went to when I needed to discuss future education and career plans. Her help, guidance, and confidence in me was something that helped me succeed."

Meyer will begin her Master's degree in Biomedical Engineering at IUPUI in August. Her research efforts will focus on medical devices with the Pediatric Radiology department at Riley Hospital, as she really enjoys the clinical aspect of research. Upon completion of her Master's degree, Meyer aspires to attend medical school. Although unsure about pursuing a medical degree at first, Meyer realized it is something she wants to do primarily because of her engineering internship experiences. She would like to specialize in radiology, so that she can combine her education in engineering and medicine to consult with biomedical device companies in the radiology field.



Graduation Reception at Woodstock Club
The Purdue School of Engineering and Technology, IUPUI and the Purdue School of Science, IUPUI co-hosted a graduation reception, along with their respective alumni associations on May 9, 2008 at the Woodstock Club in honor of the graduating classes of December 2007, May 2008, and August 2008. Many graduates, faculty,

staff, alumni, and family members gathered to celebrate this joyous occasion.



Natalie Bednar, BSME '03, Named to the IUPUI Athletics Hall of Fame
Natalie Bednar (BSME '03) became the first women's tennis player to become inducted into the IUPUI Athletics Hall of Fame. During her career at IUPUI, Bednar was a four-year letter winner, two-time team captain, and named Most Valuable Player in 2001. Bednar had quite impressive accomplishments off the court as well, including being selected as one of IUPUI's Top 10 Female Students during her junior and senior years, the recipient of the Raytheon Systems Company Award for Outstanding Mechanical Engineering Senior, James D. Bercaw Distinguished Engineering Student Award, and the first recipient of the Willis Carrier Corporation Scholarship, which she

continued to receive for four years. Upon completion of her B.S. in Mechanical Engineering, Bednar earned her M.S. in Mechanical Engineering from the University of Wisconsin in 2005. Bednar currently resides in Manhattan Beach, California, and is a thermal systems engineer for The Boeing Company.

Purdue School of Engineering and Technology, IUPUI Receives \$200K Award from Rolls-Royce Corporation

IUPUI received a \$200,000 award from Rolls-Royce Corporation to continue the design and testing of the next generation of aircraft engines, with a goal of creating cleaner, more efficient, and powerful engines. This is in addition to prior awards in 2006 and 2007 totaling approximately \$380,000. The wave rotor combustion turbine engines could cut fuel usage and CO2 emissions in aircraft by 20 percent or more over traditional gas turbine engines being used today and they could also help make hypersonic flight to orbit more feasible.

"We are very optimistic about the potential of this research and how it can impact all types of industries, especially aviation. The fact that Rolls-Royce is continuing to help fund it is a positive sign that they believe in this technology as much as we do," stated Razi Nalim, P.E., Ph.D., associate professor of mechanical engineering at IUPUI who is leading the research efforts, and patented key inventions for the technology. [Full Story](#)



Alumni Spotlight- Rob Lowden (BS CPT '01)

Rob Lowden (BS CPT '01) was recognized in June as a Laureate by the Computerworld Honors Program. Lowden, a ten year employee of Indiana University's University Information Technology Services (UITs), was honored for his leading role in a major IT infrastructure project that has streamlined efficiency and security of technology resources across all Indiana University campuses. Some of the university systems Lowden's work has positively affected include Oncourse CL and Onestart, which are used by thousands of faculty, staff, and students. Prior to his career with UITs, Lowden served as a non-

commissioned officer in the United States Navy. He spent any time he could spare indulging himself in learning, including earning his Surface Warfare qualification and gaining additional knowledge about computers. Lowden returned to Indiana in the late nineties to fulfill a promise he made to his parents which was to finish college. He graduated in 2001 with his bachelor's degree in Computer Technology. For additional information, <http://uitspress.iu.edu/news/page/normal/8309.html>.



IUPUI and Sarah Fisher Racing Announce Partnership for Education

In May, Sarah Fisher Racing (SFR) partnered with the Purdue School of Engineering and Technology, IUPUI, the IU School of Liberal Arts, and the IUPUI campus administration. Fisher, a former student in the Purdue School of Engineering and Technology, IUPUI and Butler University Engineering Dual

Degree Program, states, "The group at IUPUI have become great friends of mine over the years. I have talked with students many times and at one time, I too was a student at IUPUI. I'm honored to be associated with a university that has such prestige. Education has always played an important role in my life and I hope through our association, others can share in that importance." [Full Story](#)

Congratulations to Dr. Charles Turner!

Dr. Charles Turner, professor of biomedical engineering and osteopathic surgery, was recently named as a Chancellor's Professor at the Chancellor's Honors Convocation. Turner was one of three selected among the entire senior faculty on the campus. He joins Dr. Hasan Akay as a Chancellor's Professor from our School.

Save the Date for our Upcoming Events!

Indiana Renewable Energy Forum

The Indiana Renewable Energy Forum is scheduled for Monday, September 15, 2008 at the University Place Conference Center. For additional information, please contact Amanda O'Neill, visiting research associate, at aloneill@iupui.edu.

Purdue Day at the Indiana State Fair

The Purdue School of Engineering and Technology Alumni Board will be hosting a tent at Purdue Day at the Indiana State Fair on August 15, 2008. There will alumni and staff present to visit with, as well as several giveaways and information about the School. Come visit our tent along Main Street!

Purdue School of Engineering & Technology Student Scholarship Golf Classic

The Engineering and Technology Alumni Association is proud to host the 6th annual Purdue School of Engineering & Technology Student Scholarship Golf Classic on Friday, September 12, 2008 at Saddlebrook Golf Course. The Golf Classic raises money to support IUPUI students pursuing degrees in engineering or technology. Last year, eight scholarships were awarded from the proceeds. More information about the event is available at http://alumni.iupui.edu/events/et_golf/.

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.

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