

self-regulating function. Self-generating materials incorporate the ability to create, transform, or replicate themselves by a synthetic route. Self-regulating materials possess the ability to autonomically assess their state and respond through multiscale and multifunctional mechanisms such as magnetostrictive actuation or shape memory behavior.

White was named a Donald Biggar Willett Professor in the U of I College of Engineering in 2006.

Business and Industry Services available at Naperville satellite

For-credit graduate programs in engineering and computer science are now available from the university's Business and Industry Services (BIS), located at 1100 E. Warrenville Road in Naperville, Illinois.

Offerings include a certificate in business management for engineers and a master's degree, certificate, or individual classes in computer science. Some of the courses will be live-with a teacher in the classroom--while others will be "mixed delivery," involving an online video of a professor's lecture from the Urbana-Champaign campus. After viewing the lecture, students will be able to meet with a teaching assistant or have a video conference to further discuss the topics.

Part of the University of Illinois Extension, the BIS staff also provides expertise in strategic global leadership, innovation strategy, six sigma, lean operations, quality system implementation, customer and employee surveys, IT certification, software training, basic and technical skills, continuous process improvement, HR consulting, executive leadership and culture change.

For further information, visit www.bis.uiuc.edu, or contact Business and Industry Services at 630/505-0500.

AE moves up in college rankings!

The U.S. News & World Report moved our Department's undergraduate degree ranking up to 6th, our highest USN&WR mark since they began doing rankings in 1987. Over the years we have always been in the top ten, and this year moved ahead of several excellent aerospace programs.

The following table shows the U.S. News rankings of undergraduate programs that the Accreditation Board for Engineering and Technology accredits. The rankings are based on a peer survey of deans and senior faculty in which they rated programs they know on a scale from 1 (marginal) to 5 (distinguished).

Undergraduate engineering specialties: Aerospace / Aeronautical / Astronautical (At schools whose highest degree is a doctorate)

- 1 Massachusetts Inst. of Technology
- 2 Georgia Institute of Technology*
- 3 University of Michigan--Ann Arbor*
- 4 Stanford University (CA)
- 5 California Institute of Technology
- 6 U. of Illinois--Urbana-Champaign***
- 6 Purdue Univ.--West Lafayette (IN)*
- 8 Princeton University (NJ)
- 9 University of Texas--Austin*
- 10 Cornell University (NY)
- 10 Univ. of Maryland--College Park*
- 12 Texas A&M Univ.--College Station*
- 13 Pennsylvania State U.--University Park*
- 14 Virginia Tech*
- 15 University of Washington*
- 16 Univ. of California--Los Angeles*
- 16 Univ. of Southern California
- 16 University of Colorado--Boulder*

* denotes a public school.

UI Alumni Association and UI Libraries partner to offer superior service for alumni

URBANA, Ill.—Thanks to a partnership between the University of Illinois Alumni Association and the world-class University of Illinois Libraries, alumni now have an easy and extensive option when it comes to doing research for work, class or just general-interest entertainment purposes. ABI/INFORM Complete® by online provider ProQuest is an innovative and beneficial online database that contains more than 4,000 publications including Newsweek, Sports Illustrated, Business Week, Parenting, Health, The New Yorker and many more. For the modest price of a tax-deductible Alumni Association membership, an Illinois graduate can access thousands of national and international newspapers, magazines, professional and scientific journals and trade publications. UIAA members can take advantage of this far-reaching service free of charge wherever they have Internet access by logging on to www.uiaa.org/proquest.

In many ways, this is an educator's dream. The UIAA and UI Libraries have given University of Illinois graduates an easy-to-use tool that helps them stay current in their fields throughout their lives, after receiving a top-notch college education. The sophisticated search capabilities of the ProQuest database allow alumni to scan current and archived issues by topic, name or keyword—without having to pay hundreds of dollars in subscription fees or devote lots of time to reading tons of magazines.

The popular online database does not always offer full-text articles, and in some cases, the most recent issue(s) may be temporarily embargoed, but appear in full-text format after the embargo period. Also, titles are subject to change without prior notice.

To see a full list of publications available in the ProQuest/ABI-INFORM Complete® (alumni version) and its companion index, Research Library, visit www.library.uiuc.edu/rex/alumni.htm.

Other library services for Urbana-Champaign alumni

U of I alumni in Urbana-Champaign have a wealth of other library resources on campus. Circulating materials can be checked out from the UI Library with a courtesy card, which is a "local-use-only" card that may be obtained in person by presenting your University of Illinois Alumni Association membership card, photo identification and proof of your current address.

In addition to asking reference questions in person, all alumni can ask a reference question remotely. The "Ask-A-Librarian" service at www.library.uiuc.edu/askus

offers real-time interactive reference help through Instant Messaging and Chat services, and provides e-mail and telephone contacts. UI librarians serve alumni worldwide, answering approximately 250,000 reference questions each year.

Questions may also be directed to the Library Information Desk at 217/333-2290 or reflib@library.uiuc.edu.

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Brilliant Futures: Preparing to soar

We are Aerospace Engineering at Illinois. Our internationally renowned faculty, state-of-the-art facilities, and top quality students combine to form undergraduate and graduate degree programs ranked among the highest in the nation. Groundbreaking research in materials and information technology add to our strengths in traditional areas of aerospace research. Our alumni include luminaries such as Catherine Koerner, Shuttle Program Manager, NASA Johnson Space Center; Preston Henne, Senior Vice President, Gulfstream Aerospace Corp.; Earl Dowell, Dean Emeritus, Duke University; and astronauts Steven R. Nagel, Scott D. Altman, and Lee J. Archambault, veterans of NASA's space shuttle program. As the planet becomes a smaller place to travel and a private trip into space a near reality, we educate the future leaders of aerospace engineering who will help make our journeys possible. We are Aerospace Engineering. We are ready to soar.

Brilliant Futures, the Campaign for the University of Illinois, is an ambitious undertaking to raise \$1.5 billion for Illinois students, researchers, faculty and facilities. Through the resources raised in this Campaign Illinois will prepare students for leadership in the 21st century; preserve and enhance academic excellence; pursue knowledge and breakthrough innovations; foster a transformative learning environment; and ensure greater access to the Illinois experience.



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New Department Head, *continued from page 1*

Dutton had been serving as Chair of the Department of Mechanical & Aerospace Engineering at the University of Texas at Arlington since 2004. Having earned a PhD in 1979 from Illinois' Mechanical & Industrial Engineering Department, now Mechanical Science and Engineering (MechSE), Dutton began his academic career at Texas A&M University. He came back to Illinois as an associate professor in 1985 and successfully worked his way through the ranks. He was named MIE's W. Grafton and Lillian B. Wilkins Professor from 1998 to 2003, and was named a Donald Biggar Willett Professor in the College of Engineering from 2003 to 2004. From 2000 to 2003 he served as MIE's associate head for undergraduate programs. Dutton's affiliation with Aerospace Engineering began in 1990 and continued until he left for the University of Texas three years ago.

Dutton is a leading researcher in compressible fluid flow, propulsion, and heat transfer. His current research interests are centered on laser-diagnostic measurements of high-speed separated and mixing flows and shock wave/boundary layer interactions. The experimental techniques used in his work include

LDV, PIV, PLIF, Mie/Rayleigh scattering, CARS, and PSP/TSP. Dutton's research has been funded by several federal agencies including ARO, ONR, AFOSR, DARPA, and NSF. He has published the results of his research widely in the refereed journal literature, as well as in conference proceedings.

Dutton is a Fellow of the American Society of Mechanical Engineers and an Associate Fellow of the American Institute of Aeronautics and Astronautics. He currently serves on the Editorial Advisory Board of the journal, *Experiments in Fluids*.

Noting the excellence of Illinois' programs, Dutton said he's excited about coming back to UIUC and the challenge of the new position. "I've watched the development of the Department over the years and it's really made great strides. The Department has consistently made excellent faculty hires, which is critical to its success, and we'll definitely want to continue that in the future."

The Bliss Professorship is a result of a bequest from the estate of Helen Bliss, whose father, Abel, was a Civil Engineering student in the 1870s.



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