

## IIT Launches Fundraising Campaign

At its May 2010 meeting, the IIT Board of Trustees approved the launch of a six-year university fundraising campaign, which began officially on June 1.

The campaign is currently in the leadership and planning phase, during which many pacesetter gifts will provide momentum for the larger campaign. All gifts, large or small, given June 1 or afterward will count toward the campaign.

The philanthropic investment of the campaign will tie directly to the university's strategic plan, *Many Voices, One Vision*, approved in May 2009. Campaign priorities were still being finalized as of press date, but are expected to focus on increasing scholarship across the university, strengthening our distinctive education, elevating our reputation in engineering and science, and promoting innovation and excellence throughout the university.

Two alumni, Alan "Bud" Wendorf (ME '71) and Joel Krauss (MATH '71), have agreed to serve as the national campaign co-chairs.

Wendorf is chairman and chief executive officer of Sargent & Lundy, a Chicago-based company that provides professional services for electric power and energy-intensive

clients. He is an IIT trustee and board member of the IIT Alumni Association. Wendorf is also on the boards of the Nuclear Energy Institute and the Construction Industry Round Table. As IIT donors, Wendorf and his wife, Suzie, have helped students succeed at the university through their endowed scholarship fund.

Krauss is managing partner and co-founder of Market Strategy Group, LLC, a Chicago-based business strategy consulting firm that helps organizations drive growth and improved profitability. He is a member of the Board of Overseers for IIT College of Science and Letters and serves on the IIT Alumni Association board. He has donated to IIT's College of Science and Letters, providing scholarships and research funding.

The Advancement Committee of the Board of Trustees will work alongside IIT President John Anderson and the Office of Institutional Advancement to provide leadership for and monitor overall campaign activity, as well as supervise campaign strategies and policies.

"Alumni support will be a driving factor in the success of our campaign, so we are pleased that Bud and Joel have agreed to co-chair this effort," says Anderson. "They



Alan "Bud" Wendorf  
(ME '71)



Joel Krauss (MATH '71)

represent IIT excellence and are excited about the future of the university. Their leadership will certainly inspire other fellow alumni to give back to their alma mater."

As of August 23, \$38,058,350 in leadership gifts had been raised. This includes \$10 million from Trustee Craig Duchossois and his wife, Janet, to establish the Duchossois Leadership Program, which will create student-faculty partnerships through an elite scholarship program combined with an innovative faculty leadership and mentoring initiative.

More details about the IIT fundraising campaign are forthcoming in the winter 2011 issue of IIT Magazine. To follow the progress of the campaign, visit [www.iit.edu/giving/campaign\\_for\\_iit](http://www.iit.edu/giving/campaign_for_iit).

## Letters

### Alumnus Shares Thanks, Ways to Stay in Touch

The training and professional experience and exposure I received at IIT was outstanding, preparing me well for the world I was planning to enter. I found the faculty to be receptive, supportive, and encouraging. Especially pleasing are my continued contacts with numerous of my classmates, who also seem to have valued their times at IIT. *IIT Magazine* is especially important to help people know about those they have known and wish to remain in contact with. There can probably be no greater importance to such a publication than to keep alumni informed and connected.

IIT and my experiences there come up frequently in discussions both personal and professional throughout the year.

Permit me to express my gratitude to IIT for the role it has played in the lives of so many people I know, and, of course, in my own. I remain always grateful and in your debt.

Sincerely,  
Leon J. Hoffman  
(M.S. PSYC '69, Ph.D. '70)



## Write back!

*IIT Magazine* welcomes all signed letters to the editor and edits letters for content and clarity. Please send correspondence to:

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## IIT Students Earn Fulbright, Boren Awards

Two IIT students were named as recipients of prestigious national scholarships. Peter Mathes (PSYC '10) was awarded a Fulbright-Nehru Scholarship in the field of psychology to conduct research and study Marathi in India. Andrea Clatterbuck, a graduate student in environmental management and sustainability at IIT Stuart School of Business, was awarded a Boren Fellowship to conduct environmental research and study Japanese in Japan.

Mathes and Clatterbuck are the first IIT students in recent history to receive these awards, both of which support international collaboration and study.

As a Fulbright-Nehru Student Scholar, Mathes will explore the experiences of parents of children diagnosed with autism spectrum disorders (ASDs) in Mumbai beginning this August. Mathes notes a growing need in India to better understand ASDs and issues surrounding developmental disabilities in a family context. He hopes new perspectives on ASDs gleaned through his qualitative research, which will include interviews with parents/guardians and grandparents, will inform future researchers about aspects of the familial experience of ASDs, offering them direction when designing culturally sensitive interventions.

Mathes's research will be facilitated under the supervision of a faculty member at India's premier school of social work, Tata Institute of Social Sciences. In addition to support for his fieldwork, Mathes received a Critical Language Enhancement Award to learn Marathi.

"I am drawn to the human experience and naturally motivated to communicate across cultures," he says, citing his parents, both social workers, as inspiration for many of his pursuits. Mathes adds that the diversity of IIT, and his Indian and Pakistani friends and their families, have enhanced his understanding of cross-cultural perspectives and reinforced his belief that education and cultural awareness both require immersion.

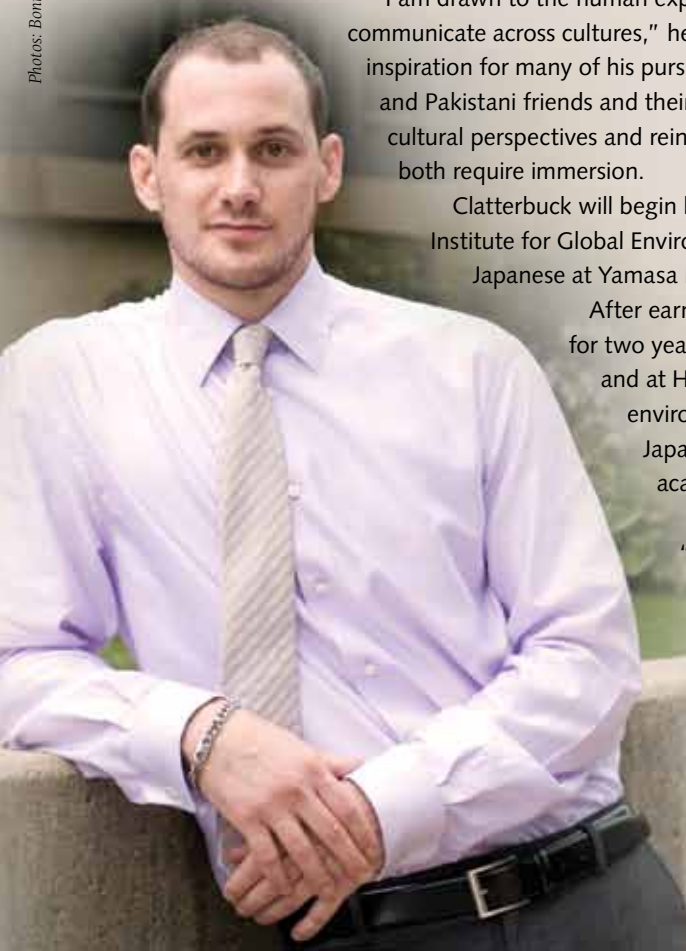
Clatterbuck will begin her research as a Boren Fellow in January 2011 at the Institute for Global Environmental Strategies outside Tokyo before studying Japanese at Yamasa Institute in Nagoya.

After earning her B.A. degree, Clatterbuck taught English in Japan for two years through the Japan Exchange and Teaching Program and at Hosei University. "I was amazed by Japan's advanced environmental policies and became interested in returning to Japan to further study its environmental policies from an academic point of view," she says.

Clatterbuck views her research abroad as an opportunity "to meet people from many different corners of the globe who are engaged in sustainability projects" in order to apply best practices in the United States, where she says environmental management and sustainability is a comparatively new field. After she completes her fellowship, she will work for the federal government for at least one year.



Andrea Clatterbuck



Peter Mathes (PSYC '10)

Photos: Bonnie Robinson

# FollowUP

Updates on the people and places previously covered in *IIT Magazine*

## “Introducing Ethics, Word-by-Word” Winter 2010

IIT’s Center for the Study of Ethics in the Professions Librarian Kelly Laas is participating in two National Science Foundation-sponsored projects. The first is NanoEthicsBank,

a database conceived as a resource for researchers, scholars, students, and members of the general public who are interested in the social and ethical implications of nanotechnology. The five-year effort is part of the NanoConnection to Society project, led by Harvard University.

The second project is a collaboration with the Center for Engineering, Ethics, and Society at the National Academy of Engineering aimed at improving resources for ethics in science and engineering education. Dubbed the Online Ethics Center, this resource was developed to help universities meet ethics requirements under the America COMPETES Act of 2007.

## “New Grid in Town” Spring 2009

IIT received an additional \$5 million from the United States Department of Energy to support a total \$12.6 million collaborative effort to establish a Smart Grid Education and Workforce Training Center at the university. The State of Illinois, partner universities, and other collaborating members are contributing the remaining \$7.6 million in funding to complete the center within three years. The center will offer smart-grid technology courses and certificate programs for people of all ages via on-campus and distance-learning classes.

## “Green Acres” Fall 2008

In April, IIT received *The Princeton Review’s* highest “green” rating among universities in Illinois, tied with University of Illinois at Urbana–Champaign. As one of the country’s most environmentally responsible colleges, IIT was selected for inclusion in *The Princeton Review’s Guide to 286 Green Colleges*. Developed by *The Princeton Review* in partnership with the United States Green Building Council, the *Guide to 286 Green Colleges* is the first free, comprehensive guidebook

focused solely on institutions of higher education that have demonstrated an above-average commitment to sustainability in terms of campus infrastructure, activities, and initiatives.



## Home Away from Home

Although the 2010–11 academic year has just begun, final exams will approach quickly. Pat Anderson, wife of IIT President John Anderson, wants to make sure there are no empty stomachs during test-taking.

Since the Andersons joined IIT in August 2007, the university’s first lady has been hosting a finals breakfast at the end of each semester as a way to personally connect with students and provide them with a morning break from an otherwise stressful period.

“The concept of a finals breakfast evolved as a way for me to personally wish the students luck with their exams and provide them with an opportunity for camaraderie,” says Anderson. “I want the students to know that the administration and all of us who are associated with the university really do care about their well-being.”

For the spring 2010 finals breakfast, doughnuts, fruit, coffee, water, and juice were provided on the first day of finals in five academic buildings on Main Campus. Pat and John Anderson, accompanied by their daughter and two of their young grandchildren [photo above], visited each building and socialized with the students, offering them best wishes before they entered the classrooms.



“I know from my experience with my own two children, and from talking with other parents of college-age students, how important it is for the students and their parents to know that there is a multi-layer support system on campus,” says Anderson. “I wanted to get the message across to the students that they have an extended family of people who care about them that is larger than they may realize.”

Anderson, who plans to carry on the tradition well into the future, shares one of her favorite memories of the breakfast to date. “I overheard one student proudly declare to another student who was surprised to discover the food set out in the lobby of Engineering 1: ‘Oh, yeah, we do this all the time!’”

—Tanya Pantone

# campus

## IIT held its 141st Commencement ceremony on May 15, graduating 2,500 students from more than 100 countries.

The keynote speaker was Andrea Berry (CS '84), senior vice president of broadcast operations for FOX Networks Engineering and Operations [see story page 28], and the student speaker was Sarah Wahlstrom Helgren (BME '10). Robert Nerem, professor and director of the Georgia Tech/Emory Center for Regenerative Medicine at Georgia Institute of Technology, received the Honorary Doctorate of Engineering.

It was a high-tech celebration befitting an IIT graduation. Students attending the ceremony posted digital photos from the event live to the photo-sharing website Flickr. The ceremony was also streamed live over the Internet.

The week of relaxing events leading up to Commencement included festivities for graduating students, their families, and IIT alumni. Students enjoyed a movie night and a barbecue-themed dinner, and went to a Cubs game.

"For me, since my parents have never been to Chicago to visit, it gives me a chance to show them the city and say goodbye to friends without having to worry about studying," said Chris Lee (CE '10).

A new event sponsored by the Alumni Association combined the fun of a lively night at The Bog with post-

college information sessions for new graduates. Alumni were invited to join in the fun and swap stories about their student years with the graduates. Alumnus Paul Holzman (ARCH '83, LAW '98) said he appreciated having an on-campus event that brought together alumni and new graduates.

For Hannah Kolb (AMAT '10), there was more than Commencement to celebrate. As Department Chair



Paul Holzman (ARCH '83, LAW '98)



Chris Lee (CE '10)

Fred Hickernell handed Kolb her diploma during the Applied Mathematics unit ceremony, he instructed her to read her diploma to the audience. Inside her diploma cover was a note from her boyfriend, Julian Spinoza (MMAE 5th year), which read, "Will you marry me?" Spinoza then presented her with a diamond and titanium engagement ring, which he crafted in the basement of E1.

[www.iit.edu/graduation](http://www.iit.edu/graduation)



# Commencement 2010

## IIT WELCOMES NEW TRUSTEE

At its May 26, 2010 meeting, the IIT Board of Trustees inducted a new member, **Elzie L. Higginbottom**, president of East Lake Management and Development Corp. and East Lake Management Group, Inc., a Chicago-based real estate firm.



## utp watch

University Technology Park at IIT recently received \$1.2 million from the Illinois Department of Commerce and Economic Opportunity and \$800,000 from the Illinois Board of Higher Education. Both grants are local match funding for the \$4.5 million United States Economic Development Administration construction grant for the 28,000-square-foot Incubator-South building. Construction is scheduled to begin in fall 2010.

Three new companies now make UTP their home: Sword Diagnostics, MedTech Bioscience, and CGC Products.

In May, UTP hosted a reception for BioParks 2010: No Boundries to Innovation, a conference organized by the Association of University Research Parks. Held in the Technology Business Center atrium, the reception showcased company development and IIT academic research taking place at UTP. BioParks 2010 was held in conjunction with the 2010 BIO International Convention, the largest global event for the biotechnology industry.

[www.universitytechnologypark.com](http://www.universitytechnologypark.com)

## High-Tech Education— There's an App for That

**W**hen new students arrive on Main Campus, they receive an assortment of tools to help them maneuver university life—among them, a student handbook, orientation materials, and now, iPads.

As part of an initiative to integrate new technologies into the classroom and to encourage educational innovation among students and faculty, IIT presented each incoming, first-year undergraduate student with a custom-engraved Apple iPad at the start of the academic year.

This fall, students are using the iPads during the Introduction to the Profession courses, required courses where students explore the subject matter, concepts, and procedures relevant to a particular discipline. The university is also making available the mobile version of IIT Blackboard, allowing students to access the education portal remotely. Faculty information sessions are being held to instruct faculty in the ways to incorporate iPads into coursework.

In addition to providing iPads as a learning tool, IIT is integrating the devices into its emergency alert system. IIT launched a new emergency-alert application, IIT Alert Mobile, which was loaded onto the iPads. Developed by Information Technology and Management faculty member Valerie Scarlata (M.A.S. ITM '06) and graduate student Soren Haurberg, the application will enable the university to send emergency alerts directly to the devices. This will enhance the existing emergency alert capability through SMS text, email, and voice messages.

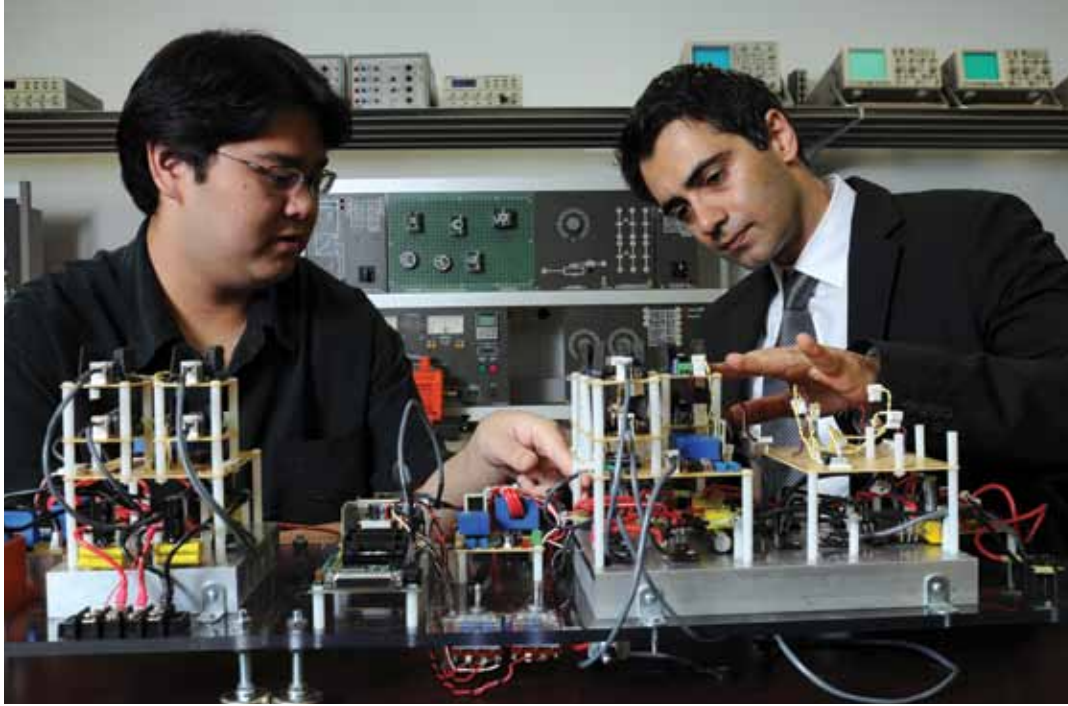
IIT will continue to foster technology innovation at its new Idea Shop [see story page 16]. The new home for IIT's Interprofessional Projects (IPRO) Program, IIT's Entrepreneurship Academy, and other entrepreneurial activities at the university, the Idea Shop will include space to support scientific computing and visualization, engineering graphics, mobile app development, team-based idea generation and communication, and a state-of-the-art digital fabrication lab.

This fall, IIT plans to launch its own application for use on iPhones, iPods, iPads, and Android phones, featuring links to IIT news, events, maps, course listings, and more.



New students  
viewing their iPads

Courtesy of Apple



Jonathan Kobayashi (ECE 4th year) [left] and ECE Assistant Professor Alireza Khaligh (Ph.D. EE '06)

## What I Did LAST SUMMER

Like many college students, Jonathan Kobayashi (ECE 4th year) had an “electrifying” summer. But instead of sun and sand, the highlights of his break were new hybrid-electric vehicle technologies he researched through the Research Experience for Undergraduates (REU) Program.

Funded by the National Science Foundation, the REU program provides undergraduate students with independent-research opportunities that allow them to work alongside graduate students and faculty. REUs are held at universities nationwide, with each REU running for 10 weeks and involving 10 undergraduates from throughout the United States. Kobayashi first learned about IIT’s Hybrid Electric and Plug-In Hybrid Electric Vehicles REU as a participant on the university’s Formula Hybrid Team.

Working closely with recent graduate Omer Onar (Ph.D. ECE '10), Kobayashi and his team researched alternative methods of propulsion and energy storage. Kobayashi helped to design and test an experimental bi-directional electronic converter that can be connected to a wall-based electrical outlet. As he explains, this converter allows a battery to draw power from future smart grids, and smart grids to take power from a battery.

Kobayashi also gained hands-on experience with converter interfaces for

batteries and ultra-capacitors, working to combine the two to create a more efficient hybrid vehicle. “Batteries are capable of storing a lot of energy, but they cannot deliver energy very quickly in situations like rapid acceleration. Additionally, ultra-capacitors are not able to store as much energy as batteries, but they can handle large spikes in energy,” Kobayashi says. “By combining batteries and ultra-capacitors, we get high energy storage and high performance.”

The ultimate goal, Kobayashi explains, is to someday convert all of the vehicles on the road having poor efficiency and high emissions to electric vehicles. His REU was funded in part by the Department of Defense ASSURE program.

The director of the REU at IIT, ECE Assistant Professor Alireza Khaligh (Ph.D. EE '06), explains that in addition to working on research teams with faculty members and Ph.D. candidates, students participate in group meetings, seminars, tours of industry facilities, and ethics training. Kobayashi’s group met weekly to discuss ethical issues related

to its research, including topics such as mentor/advisor/student relationships, protection of intellectual property, conflicts of interest, and codes of ethics for engineering organizations. They were aided by IIT’s Center for the Study of Ethics in the Professions.

Because of the resources Kobayashi and his teammates had available to them at IIT, the team was able to conduct several experiments, including one in which it successfully injected power from a battery back into the energy grid.

“This REU experience has given me a glimpse into the exciting world of research and has made me more focused and enthusiastic about challenging work,” says Kobayashi. “Working on hybrid technologies has increased my awareness of the need for alternative energies. After completing the REU, I have decided that alternative energy research may be the topic I choose for my graduate studies.”

—Tanya Pantone

# Aiming for a First-Class EXPERIENCE



Engley Mitchell IV

Though Kenley Mitchell is just a couple of months shy of her second birthday, her father, Engley Mitchell IV—IIT’s new athletic director—is already envisioning her place within the IIT family.

“I’m hoping that my daughter will be a student-athlete one day,” he muses. “As she grows up and is around IIT student-athletes, she’ll have role models and can look up to them. She’s a little young now for that,” he admits with a chuckle, “but maybe down the road.”

In his career shift to IIT, Mitchell’s own road has come nearly full circle. A Fort Wayne, Ind., native, he and his wife, Kendra, are now within a three-hour drive from most of their family. Before returning to the Midwest, Mitchell served as athletic director and head coach of the men’s basketball team at Northern New Mexico College. Proximity to loved ones was just one factor that led Mitchell to accept the position.

“IIT is a great academic institution; its reputation speaks for itself,” he says. “It was a good fit for where I am in my career and for what IIT administration is looking for in an athletic director. I had a good feeling when I visited the campus.”

Mitchell has 14 years of college and professional coaching experience—including a season with the Swansea Basketball Club in Wales, United Kingdom—as well as corporate experience in the financial services sector and as a vendor in the student loan industry. He credits the decision-making background he gained from sports and business with helping him to achieve his greatest professional accomplishment to date: starting an intercollegiate program from scratch at NNMC.

“We went from nothing to six sports in two years,” says Mitchell, noting that growing the sports program at IIT is also one of his priorities. He is especially interested in adding emerging sports such as bowling to the lineup. The National Association of Intercollegiate Athletics designates an emerging sport as any sport currently recognized by the NAIA that follows all rules and regulations but does not include official national championship competition.

Mitchell was a four-year letterman in a traditional sport—basketball—at Spring Arbor University, where he earned a bachelor’s degree in business administration. He also completed a master’s degree in recreation and sport management from Indiana State University. While his love of sports runs deep, Mitchell emphasizes that academics come first. The grade point average of NNMC’s varsity athletes during his tenure exceeded the average of the student body.

“The coaches and I will work together to make sure that every student-athlete has a first-class experience that supplements what they’re getting academically,” says Mitchell. “I look forward to tackling some of our department’s immediate issues, hearing any concerns from the coaches, mentoring as many of the student-athletes as I can, and seeing all of us have a great year.”