



ILLINOIS INSTITUTE OF TECHNOLOGY **2008 Annual Report**





forward: motion

“Here’s to the crazy ones, the misfits, the rebels, the troublemakers, the round pegs in the square holes... the ones who see things differently. They’re not fond of rules... You can quote them, disagree with them, glorify or vilify them, but the only thing you can’t do is ignore them because they change things...*they push the human race forward.* And while some may see them as the crazy ones, we see genius, because the ones who are crazy enough to think that they can change the world are the ones who do.”

—Apple Co-founder
Steve Jobs



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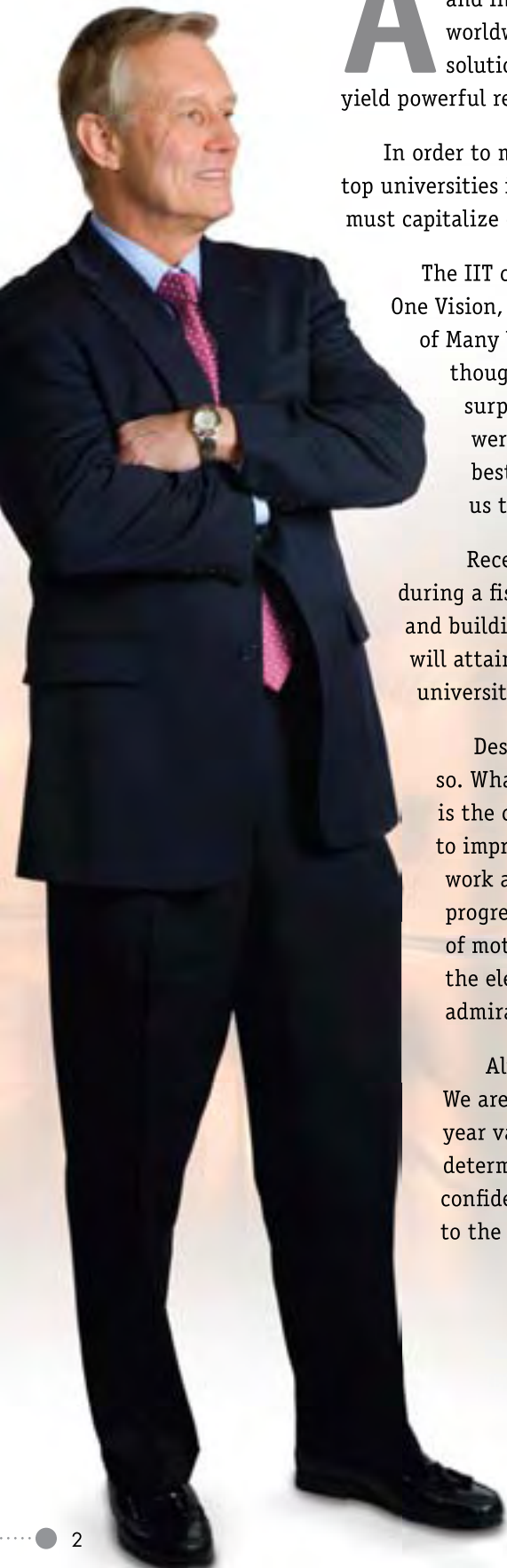
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At Illinois Institute of Technology, we see things differently. We view technology and innovation as the tools to propel society forward. Now more than ever, worldwide demand for cleaner energy, better education for tomorrow's leaders, and solutions to vexing medical issues place IIT in a position where the work we do can yield powerful results.

In order to make a broad impact, we know that IIT needs to establish its place among the top universities in the country. In my inauguration as president last year, I described how IIT must capitalize on its areas of expertise if the university is to move toward higher plateaus.

The IIT community has rallied behind this charge and set into motion Many Voices, One Vision, a strategic initiative designed to advance the university. In the first phase of Many Voices, One Vision, we asked all members of the IIT community to share their thoughts on the university's strengths and what we want to be in the future. Not surprisingly, many of the ideas were bold, far-reaching, and a bit ambitious. So were the outcomes of the process: a commitment to become one of the country's best universities with identifiable niches, and a clear set of principles to guide us toward this goal. The two key words for us are "innovation" and "progress."

Recent events have challenged us to find creative ways to grow within our means during a fiscally difficult time for our country and its universities. By working hard and building on our strengths, and by a willingness to "see things differently," we will attain leadership positions and define the essence of a professional and technical university that this country needs.

Despite the challenges, we will succeed because we have the commitment to do so. What has been most impressive about the Many Voices, One Vision process so far is the collaboration of IIT's students, faculty, staff, and trustees. We are determined to improve, and we are enthusiastic. Teamwork, enthusiasm, creativity, and hard work are the driving forces behind our progress at IIT in the past year. This progress includes an increased number of talented students, new appointments of motivated and skilled faculty, the winning of several large research grants, the election of committed new trustees, and the good work of staff who have an admirable dedication to the improvement of the university.

Although we have laid the groundwork for excellence, we have only begun. We are excited about what lies ahead because our accomplishments in this past year validate our vision and direction. As we enter a new year with increased determination—and the launch of our strategic plan next spring—we remain confident knowing that we are not only moving IIT forward but also contributing to the human condition.

John L. Anderson
President

From the Chair

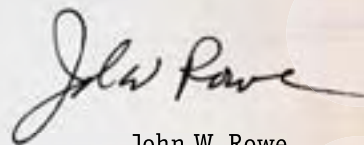
As chair of the IIT Board of Trustees, I have the honor of addressing the university community in IIT's annual report. Annual reports are something of a homecoming. No matter how closely you follow your team, your university, or your company, it's always good to have an opportunity to reflect on the past year and to remind yourself—and others—of both your accomplishments and your challenges.

In addition to the many stories featured in this report, I am proud of the progress IIT has made in fundamental areas of leadership and administration. In his first year as president, John Anderson has done a fine job of uniting the community, hiring a new provost and a dean of IIT College of Science and Letters, and getting a better handle on the budget. The university is moving toward a more stable financial position, while working to establish a framework for growth with the first stage of a new strategic initiative. Juggling ambition and reality is not easy, but we all have these challenges.

We also added nine new trustees in the last fiscal year, including several accomplished alumni from diverse backgrounds. As IIT looks to grow and innovate, the partnership of the trustees, the administration, the faculty, and the students, along with an influx of new ideas, will certainly further our success.

Our planning progress during this past, transitional year is so important because it will strengthen IIT's academic and research programs in the future. These are not frothy dreams, but rather powerful endeavors with the potential to change lives. Sustainable energy, mathematics and science education, diversity, business innovation, biomedical engineering, and cancer and diabetes research are not just some of the important disciplines of study and research at IIT, they are imperatives of a prosperous society.

We've only cleared the pathway—now we can really build.



John W. Rowe
Chair
IIT Board of Trustees





.....
"The horizon
leans forward,
offering you
space to place
new steps
of change."

—Maya Angelou

forward: students



Enrollment Spike Coincides with Launch of Collens Scholarship

For the first time in 25 years, IIT enrolled more than 500 full-time freshmen, with 520 first-year students joining the university in academic year 2007–08. ● These first-year students hail from 33 states and 27 foreign countries. Their academic credentials are highly competitive; 11 were valedictorians, 14 were salutatorians, 42 percent ranked in the top 10 percent of their high-school class, and 77 were in the top 10 of their class. Overall, graduate enrollment also was up and retention, ● a key measure of the effectiveness of enrollment efforts, was also strong.

Among these new students was the first class of Collens Scholars. Announced in fall 2006, the Collens Scholarship program was launched last year as part of IIT's ongoing commitment to Chicago Public Schools and improving the diversity of students at the university. Named for IIT President Emeritus Lew Collens, the program provides full-tuition scholarships to CPS graduates who demonstrate both significant financial need and high academic qualifications. IIT hopes to support 100 Collens Scholars in the first four years of the program.

Collens Scholar Raquel Alvarez (CE, 2nd year) ● embodies IIT student excellence: bright, inquisitive, and involved. "Ever since I was a little kid I've been fascinated by structures. I always liked to build things with my older brother," says Alvarez, who grew up on Chicago's Southeast Side and attended Jones College Prep high school, where she was a member of the student council and the National Honor Society.



Raquel Alvarez,
Collens Scholar

The transition to university life can be a challenge, even for talented IIT students. To help students capitalize fully on their potential, the IIT Institute of Psychology and Office of the Provost launched the Kedge initiative. Taking its name from the nautical word for “a small anchor,” Kedge assists students in identifying and overcoming any number of factors that can stand in the way of their success. With the assistance of faculty, who help to identify students in need, the Kedge program assesses

10 different domains, such as motivation and test skills, and empowers students who are struggling academically. The program has enriched student/faculty interaction, and improved the retention rate for Kedge participants to an impressive 86 percent.



Alvarez works part time at Paul V. Galvin Library in the interlibrary loan department and is a member of Latinos Involved in Further Education and of the American Society of Civil Engineers. She plans to serve as a counselor for incoming Collens Scholars as part of a new student-advising committee that will be added to the program.

“The students and faculty who are part of and that help with the Collens Scholarship Program are all like a family,” she says. “The program has helped me to do well academically, reducing the financial burden of college and allowing me to concentrate on learning. I can put my whole mind into my education.”

While an increase in enrollment was a boost for all IIT colleges, it was particularly marked at IIT Stuart School of Business, where a re-energized curriculum centered on the concept of strategic competitiveness is credited with spurring the largest enrollment in the school’s history, up 15 percent.

Retention at IIT Stuart School of Business surged right alongside its enrollment, thanks in part to new student services and a revamped Career Management Center. A creative new initiative, the Stuart Passport Program, challenged students to step outside their comfort zones. Graduate students were given “passports” to track business contacts, new friends, and experiences. “This co-curricular effort was very successful in helping students understand the corporate and business cultures,” says Dean Harvey Kahalas. “It’s a great example of how Stuart is succeeding by focusing on learning and the importance of cross-disciplinary approaches, as opposed to just instruction and teaching.”



IPROs Challenge Students to Make an Impact

“Give a man a fish and you can feed him for a day. Teach a man to fish and you feed him for a lifetime.”

At IIT, the Interprofessional Projects (IPRO) program takes the spirit of this well-known Chinese proverb one step further. For more than a decade, the IPRO team project course has joined students from diverse majors and backgrounds to investigate real-world problems. The entrepreneurial component to IPRO, the Entrepreneurial Projects (EnPRO) cluster, challenges students’ business innovation. The hands-on learning of IPRO and EnPRO is “paying it forward”—educating students for a lifetime while providing them the tools to benefit the world around them.

Last year the IPRO program—a model for similar programs at other universities—offered a record 90 projects, ranging from developing an artificial pancreas to creating affordable shipping-container housing. The more than 24 project sponsors and community partners included Chicago Public Schools, the Museum of Science and Industry, Honeywell, SmartSignal, and Access Community Health Network. Last May, 180 area middle school and high school students interested in mathematics and engineering visited IIT for the IPRO Day showcase. The size and makeup of the judging panels also grew, with more Chicago-area professionals participating in the program.

Another area of program growth, reflecting a three-year trend, was in service-learning projects, ● which aim to improve the human condition. Last year the IPRO program offered 10 such projects.

“IIT students are very interested in projects that allow them to improve the world and their community,” says Tom Jacobius (MAE ’71), IPRO director. “Some of these projects are dedicated to addressing a global need, while others serve a specific community partner and its constituents.”

Last year three service-learning IPRO teams combined their efforts to design, build, and field test water, energy, and shelter solutions aimed at improving the lives of the more than 2 billion rural disadvantaged peoples worldwide, who live on less than \$3 per day. The teams explored a



IPRO 325 team members David Curtin (CHEM '08) and Brian Schiller (CHEM '08) discuss the results of their laboratory testing of the simple filter they helped to design.

solar oven and rocket stove, water filtration and cachement systems, and an adobe refrigeration system, all of which the end users can build for \$5 or less using sustainable, readily available materials. A collaborator in the IPRO project was the University of Massachusetts Lowell, and members of an IPRO team worked with a team of engineering students led by John Duffy (M.S. MAE '71) in field testing student inventions in Laguna, Peru.

Chemistry undergraduate David Curtin (CHEM '08) traveled with UMass Lowell engineers and tested the IPRO-designed water filter during two trips to the Ancash region of Peru. Curtin says, "On these trips, I was able to pick up innumerable skills ranging from solar panel installation to cattle herding to Spanish speaking. During the IPRO semester itself, I learned a good deal about what makes an effective, high-performing team. What I learned has made me a better world citizen."



[Left to right] Reema Paranthan (ARCH, 5th year), Ryan Witthans (CHEM '08), and Tomomi Tsukioka (ARCH, 5th year) test an IPRO water-filtration system.





Through Haiti Outreach–IIT, the university’s chapter of the nongovernmental organization, and Engineers Without Borders, IIT has for the past two years applied its strengths in engineering and technology to benefit communities in Haiti, assessing the feasibility of new water-distribution systems and helping with the construction of a high school.



In summer 2007, the IPRO program joined in the effort. An IPRO team conducted an onsite structural analysis and material testing to determine if the strength of the locally produced concrete was adequate for a new high school under construction. Another student group from Haiti Outreach–IIT visited Haiti last summer to conduct a feasibility study of an initial design for a new water-distribution system for the town of Pignon, following up the earlier work of an IPRO topographical survey of the town. During an August 2007 trip, IIT students, in collaboration with four Haitian students, also conducted a socioeconomic survey of the population of Pignon in order to better understand the population’s needs.

The members of the Sustainable Water Distribution System for Pignon, Haiti IPRO team—which includes more than 20 students from various majors, spanning architecture, civil engineering, electrical engineering, and mechanical engineering—visited Haiti again in January and presented its preliminary design for the water-distribution system to the Haitian government and local leaders. In February, Haiti Outreach–IIT held a celebration and fundraising dinner to help pay for the cost of the new system. State Senator Kwame Raoul delivered the keynote address.

<http://ipro.iit.edu>

www.iit.edu/~haiti

www.haitioutreach.org





IIT Wins with Smart Players

IIT is a university where students are proud to be smart, where fellowships and research findings generate as much excitement as athletic trophies. Last year, the academic and athletic worlds at IIT proved once again that they are not mutually exclusive, with student-athletes achieving success on and off the field.

Eight IIT varsity athletic teams, representing 80 percent of the varsity sports at the university, received national honors from the National Association of Intercollegiate Athletes (NAIA) for earning a GPA of 3.0 or higher on a 4.0 scale. IIT had one of the highest percentages of NAIA Scholar Teams in the country. The swimming and diving team ranked number 1 and the men's soccer team ranked number 2 overall in the country for the highest GPA in the NAIA in their respective sports. IIT also counted several student-athletes who earned regional Academic All-American honors.

“When I see 80 percent of our teams achieving a high GPA, all while our students are being recognized nationally as winning teams and champions, it just shows that IIT is bucking the trend,” says Lee Hitchen, athletics director and men's soccer coach. “It's a testament to our students who work so hard off the court and to the coaches for their great efforts in recruiting these students.”

While IIT has always boasted high academic standards, the university's athletics program historically has struggled to find

*Student Aubrey Vander Heyden,
IIT women's volleyball*





*Student Branden Toro,
IIT diving*

success. Hitchen points out that six years ago when he arrived at IIT, the Scarlet Hawks lost all but two sporting event match-ups; today, IIT teams are competing and winning at a national level and holding their own against perennial NAIA powerhouses.

Among the students who succeeded last year was IIT diver Branden Toro (ME, 3rd year), who won first place and was named national champion in the one-meter springboard dive. He placed second in the three-meter competition. Both the men's and women's swimming and diving teams advanced to the NAIA championship competition.

IIT men's soccer striker Graeme Port (HUM, 2nd year) was named an NAIA All-American and Chicagoland Collegiate Athletics Conference Freshman of the Year. Port is the first IIT men's soccer player to be named an All-American. Amy Bourquard (MSE '08) was named an NAIA All-American in women's soccer, IIT's first women's soccer player to earn the honor. Several IIT swimmers, divers, and cross-country runners competed in their respective national championships, and IIT's Aubrey Vander Heyden (CAEE, 3rd year) was named NAIA Libero of the Year in women's volleyball.

www.illinoistechathletics.com



*Student Graeme Port,
IIT men's soccer*

more: students

Students Win International Pioneer Award

Ryan Witthans (CHEM '08) and Shabab Amiruddin (ChBE Ph.D. candidate) won the prestigious Microsoft Technology Pioneer Award at the University of San Francisco's International Graduate Business Plan Competition last year. Their winning plan was for their company, medLight, a medical device startup that is developing implantable blood sensors to replace certain blood tests. They were supported by IIT's Jules F. Knapp Entrepreneurship Center and coached before the competition by San Francisco-area alumni.

New Office of Undergraduate Research and Fellows Program

Research experience can dramatically impact a student's career direction, influencing such decisions as whether to take a job in industry, continue on to graduate school, go to medical school, or enter the academic profession. Although many research opportunities are available, maneuvering them can present a difficult challenge for students. To make students better aware of research projects available, IIT launched the Office of Undergraduate Research last November. In addition to connecting students with projects nationwide, the office launched the IIT Undergraduate Research Fellows program, which pairs students with faculty to conduct fully funded, semester-long research projects that focus on approachable, robust student research.

Generous stipends allow participation from students who might not otherwise choose to participate due to the financial need to work. More than 60 students and 30 faculty proposed projects in the first semester of the fellowship program, and 15 were funded. Students submit articles describing their experiences for an online journal, and next year the program hopes to provide funding for students to present papers at national conferences. *Read more about the fellowship research topics and published papers at www.iit.edu/research/undergraduate_research.*

CSL Supports Undergraduate Summer Research

Eight students conducted research as part of the IIT College of Science and Letters Undergraduate Summer Research Scholarships stipend program. Working with CSL faculty, students investigated subjects as broad ranging as linguistics, life sciences, and theoretical physics. The CSL Board of Overseers and CSL alumni funded the scholarships.

IIT Team Places Second in Innovation Chase

A team of students from IIT Armour College of Engineering, IIT College of Science and Letters, and IIT Stuart School of Business placed second in the Great Innovation Chase. Teams from eight universities turned Milwaukee upside-down as they searched for clues in a competition that presented challenges modeled after "The Amazing Race" and "The Apprentice," with the goal of creating a marketing strategy for Chevrolet's new environmentally friendly technologies. The inspiration for the Great Innovation Chase was largely borrowed from IIT's own Chicago Innovation Chase, which was created by the Innovation and Entrepreneurship Academy and the Entrepreneurship Program at IIT.

IIT Continues Winning Tradition at Research Symposium

For the second year in a row, an IIT student won top honors at the Chicago Area Undergraduate Research Symposium, which brings together the best students from six Chicago-area universities. Robert Whittlesey (ME '08, AE '08) won the Joe Cribari President's Award for best abstract and paper.

IIT Student Named Whitaker Fellow

Last year, Michael Morley (BME '08) was a recipient of the Whitaker International Fellowship. The fellowship was awarded to just 12 recipients in the nation, and supports biomedical engineering students studying and conducting research abroad.

IIT Student Among Best Young Entrepreneurs

BusinessWeek named Vincent Choi, a student in the M.Des./M.B.A. dual-degree program in IIT Stuart School of Business and IIT Institute of Design, as one of America's Best Young Entrepreneurs of 2007 for Avant Gaudy, an online vintage clothing store.

Student's "Green Concrete" Earns Award

Grahm Balkany (ARCH, 5th year) earned second place in the Concrete Thinking for a Sustainable World International Student Design Competition in the structure category for his project, Green Concrete.

Architecture Student Wins \$50,000 Prize

IIT's Amanda Hallberg (ARCH '07) was named the winner of the prestigious Skidmore, Owings, and Merrill Foundation's 2007 SOM Prize, a \$50,000 research and travel fellowship.



Triple Threat: IIT Chicago-Kent Sweeps Competitions

IIT Chicago-Kent College of Law achieved unique recognition in 2008: the honor of being the first law school to win the National Moot Court Competition and the National Trial Competition in the same year. Two students—Joshua Jones (LAW '08) and Rachel Moran (LAW '08)—were also recognized as best oral advocates in the nation.

One of only a few schools to win the National Trial Competition in two consecutive years (2007 and 2008), Chicago-Kent has a history of being a formidable competitor in trial advocacy. For 18 of the past 26 years, Chicago-Kent teams have won the regional round of the National Trial Competition and advanced to the national tournament while winning or placing in a variety of other regional and national matches. The 2008 competition included 250 teams from 147 law schools nationwide.

Fourth-year law student Joanna Brinkman, Lania Gilkey-Johnson (LAW '08), and oral advocacy winner Moran shared in the honor of being the winners of the National Moot Court Competition.

A Chicago-Kent team also took first place in the 2008 National Ethics Trial Competition.




2008 National Trial Competition winners Joshua Jones (LAW '08) [left] and Mark Griffin (LAW '08)



2008 National Moot Court Competition winners [left to right] Lania Gilkey-Johnson (LAW '08), law student Joanna Brinkman, and Rachel Moran (LAW '08)



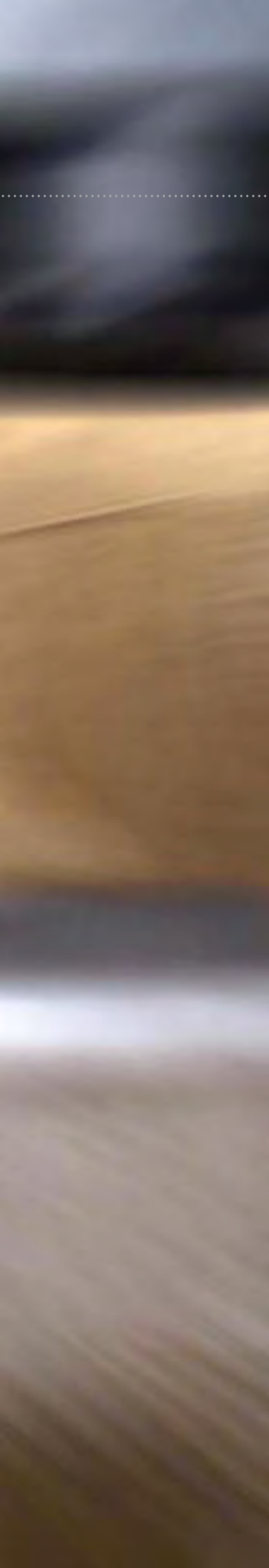
2008 National Ethics Trial Competition winners [left to right] law student Brian Wojcicki, Rachel Moran (LAW '08), Chanel Jefferson (LAW '08), and law student Matthew Casey



“If I find 10,000
ways something
won’t work, I haven’t
failed. I am not
discouraged, because
every wrong attempt
discarded is another
step forward.”

—Thomas A. Edison

forward: research



WISER Will Further IIT's Strengths in Sustainability Research

Imagine obtaining natural gas from the sea. Or producing a fuel alternative with the help of bacteria. Or living in a building that generates its own operating power from the wind. IIT researchers have imagined these scenarios and are working to make them a reality. In 2008, these projects and others were given added thrust when they were placed under the IIT Wanger Institute for Sustainable Energy Research (WISER), a \$5 million energy initiative that will allow faculty to explore issues of global climate change, investigate alternate fuel and power sources, and help position the university as a national authority in matters concerning energy, the environment, and sustainability.

WISER was launched on March 3 at a special event honoring its benefactor, Ralph L. Wanger, co-principal of LZW Group, LLC and an IIT trustee. The institute will

expand upon activities already begun through the IIT Armour College of Engineering Energy and Sustainability Institute and continue collaborative projects with IIT Stuart School of Business, IIT Chicago-Kent College of Law, IIT Institute of Design, IIT College of Architecture, and IIT Institute of Psychology. WISER research will build upon the university's strengths in four core areas: energy production; renewable energy; energy efficiency, conservation, and sustainability; and power and power distribution.

WISER funding will go far at IIT, which has a long track record of performing energy research and strong faculty who are adept at working together in an interdisciplinary setting. The advances

IIT College of Architecture Professor Peter Land has organized an interdisciplinary team from Armour's Department of Mechanical, Materials, and Aerospace Engineering to advance developing work on innovations in wind and solar technology for energy production in tall buildings as well as buildings with wide spans. "The initial focus has been on tall structures and several unique types have been developed for the primary wind directions," says Land. "These include single- and omni-directional wind environments using different turbines and rotors." Architecture students continue to play a role in the development of Land's work, especially through the research-based studio groups he leads.





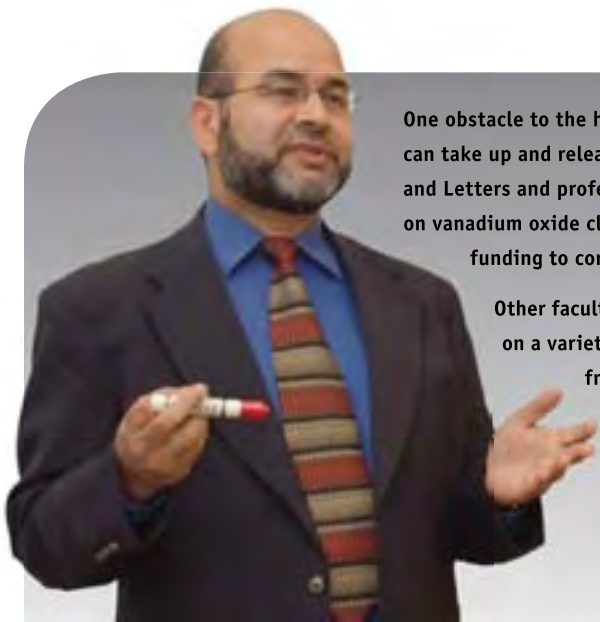
made at IIT are intended to yield benefits that extend far beyond the university community. ●

“Mr. Wanger’s gift provides us with needed infrastructure, seed money for faculty research, and scholarships to attract top students,” says Hamid Arastoopour, WISER director, Henry R. Linden Professor of Energy, and a recognized expert in particle technology and energy conversion systems. “This funding will also allow IIT to assume a leadership position as we face significant future challenges to the security of our national energy supply and the sustainability of our natural resources.”

● Some Projects Through WISER:

- Natural gas production from methane hydrates and tight sand formations
- Biofuel production from agricultural products
- Energy production through wind and solar technology on tall and wide buildings
- Mercury waste remediation from coal combustion
- Perfect power grid development
- Hybrid and plug-in hybrid-electric vehicle research
- Hydrogen storage and fuel cell capabilities

● The IIT Stuart School of Business Master of Business Administration degree program was first in Chicago and 48th overall on the list of Global Top 100 Schools in “Beyond Grey Pinstripes,” a biennial survey and alternative ranking of business schools conducted by the Aspen Institute. Stuart was noted for its excellent approach in blending social and environmental issues into its M.B.A. program.



One obstacle to the hydrogen economy is finding a lightweight, low-temperature storage material that can take up and release the hydrogen easily. Ishaque Khan, associate dean of IIT College of Science and Letters and professor of chemistry, has developed a new class of crystalline compounds based on vanadium oxide clusters that show promise in overcoming this hurdle. Khan received \$324,000 in funding to continue his research on these large compounds.

Other faculty from the Department of Biological, Chemical, and Physical Sciences are working on a variety of energy-related research projects supported by more than \$750,000 in funding from the Department of Energy, Argonne National Laboratory, and private industry:

- New biological agents for the desulphurization of oil
- New coatings for corrosion-resistant nuclear power reactor vessels
- *In-situ* X-ray studies of fuel cells
- Superconductors for electrical transmission and devices



\$5 Million Gift Establishes Sustainable Energy Research Institute

The Council on Tall Buildings and Urban Habitat (CTBUH), which relocated to IIT College of Architecture in 2003, is expanding on its collaboration with the university. IIT will provide infrastructure, such as office space, human resources functions, and IT support to CTBUH, and in return will benefit from the group's continued merits in the areas of research, publications, conferences, and international recognition. Antony Wood, CTBUH executive director and visiting associate professor, expects that the council will be established as a successful research institute within two to three years. Founded in 1969, CTBUH is an international not-for-profit organization designed to facilitate exchanges among those involved in all aspects of the planning, design, construction, and operation of tall buildings.

www.ctbuh.org



Did you say zero-carbon cities? More than 100 are under development in China and India, with a dozen currently on the drawing board for the Arabian Peninsula. "The world of architectural practice today is vastly different than what it was just a decade or so ago," says Harry Mallgrave, IIT College of Architecture associate professor and director of IIT's International Center for Sustainable New Cities, which seeks to address these changes through collaboration, research, and an ultra-urban planning educational approach. In fall 2007, students from Mallgrave's China Studio course began research for the design of a new city on Chongming Island as members of a multidisciplinary team that spent three weeks at Tongji University in Shanghai. The center is now working with faculty from the University of Venice on a new city project.

www.icsnc.iit.edu

Rendering of new city on Chongming Island

Heart Glows with New Approach to Diagnosis

Biomedical imaging has come a long way since German physics professor Wilhelm Röntgen took the first X-ray, an image of his wife's hand, in 1895. Other forms of imaging have since been developed that show not only the internal structure of the human body but also evaluate its function.

Scientists working at IIT's Medical Imaging Research Center (MIRC) are developing new imaging modalities and techniques for the acquisition, processing, and analysis of medical images. Last spring, Jovan Brankov, assistant professor of electrical and computer engineering at IIT Armour College of Engineering, received a five-year, \$2.1 million grant from the National Institutes of Health to further his analysis of a type of cardiac imaging known as SPECT (single-photon emission computed tomography).

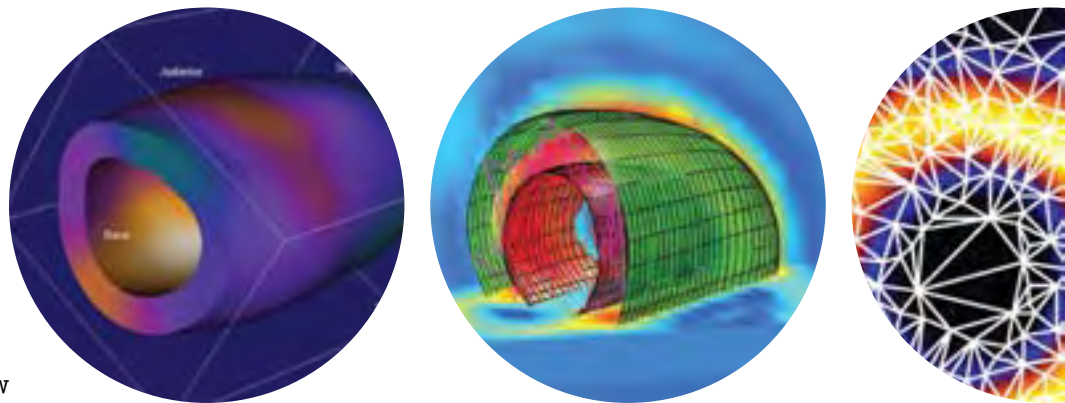
SPECT imaging allows a physician to evaluate cardiac function by observing the emission of gamma rays in the heart that are delivered via a radioactive-labeled substance injected into the patient. As a camera rotates around the patient and records the emissions, three-dimensional images are formed that can be made into a video displaying cardiac motion. The ability of the heart to receive substances from the bloodstream can be observed as well as a full volumetric representation of blood flow through the heart. Blockages and areas of restricted blood flow are represented in the resulting images.

In industry and academia, thousands of engineers and researchers are developing new imaging machines and software methods, but currently there is no way to predict whether these new developments will result in improved diagnoses. Instead, designs are evaluated usually by a time-consuming process in which radiologists view hundreds of images, one by one, and statistical analyses are performed to determine whether the images are yielding correct diagnoses. In his project, Brankov uses numerical observers—a new class of mathematical algorithms—to determine the diagnostic value of medical images automatically. Brankov's observers use techniques from the data-mining field to predict the judgments a human observer would make based on the same set of image variables.

"In general, SPECT image quality assessment by the cardiologist is the best," explains Brankov. "However, deciding what settings of the scanner hardware and software—especially for the new scanners or reconstruction algorithms—produces the best diagnostic images would take countless hours, a lot of money, and thousands of images evaluated by a cardiologist to get it right. Therefore having a computer algorithm that can help in this process is essential."

Brankov plans to develop an image quality assessment software program and in the long term, is confident that his research will form the basis for a potential computer-aided diagnostic system for cardiology.

MIRC moved across Main Campus to its new home in University Technology Park at IIT. It recently completed the build-out of a new Phase-Sensitive X-Ray Imaging Laboratory.





Alternative-Energy Solutions Offer New View of Sustainable Power

Many environmentally conscious customers in the market for a new car are most likely shopping for the popular Toyota Prius, a hybrid-electric vehicle driven by both an internal combustion engine and an electric motor. In 2010, General Motors plans to introduce the car-buying public to the Chevrolet Volt, a plug-in hybrid electric that uses a conventional engine as a range-extending onboard power generator, taking the vehicle beyond the 40-mile, all-electric range per plug-in charge.

“It is clear that hybrid and plug-in hybrid vehicles are emerging at a rapidly growing rate, and there will be a sustained, exceptional market share growth for them in the long term,” says Ali Emadi, professor of electrical and computer engineering, and director of IIT’s Electric Power and Power Electronics Center (EPPEC). “Economic issues, performance improvements, and environmental concerns are the main driving forces.”

Emadi conducts much of his work on hybrid/plug-in hybrid electric vehicles at the EPPEC’s Power Electronics and Motor Drives Research Laboratory as well as at the Grainger Foundation Laboratories, ● which he has developed. “IIT has one of the best power electronics programs in the country and is very well positioned to take the lead in this area,” he says.

Emadi also heads Hybrid Electric Vehicle Technologies, Inc. (HEVT), based at University Technology Park at IIT (UTP). The early-stage technology venture specializes in the design and development of hybrid and plug-in hybrid-electric vehicle controllers, drive trains, and conversions. Last July, HEVT unveiled the world’s first plug-in hybrid Ford F-150 pickup truck.



Other IIT hybrid-technology projects underway include efficient electric propulsion systems; plug-in hybrid-electric micro air vehicles; advanced energy-storage systems; and conversion kits for mass-transit and school buses, military transports, and other large vehicles such as the Hummer.

A lithium-ion battery pack ● that utilizes an IIT-patented technology is at the heart of a project to double the fuel efficiency and reduce emissions in City of Chicago hybrid vehicles. The pack was developed through All Cell Technologies, LLC, a UTP technology transfer company whose



*ECE Doctoral Candidate
Sanjaka Wirasingha*

Vroom! Start Your *Hybrid* Engines

The IIT ACE Formula Hybrid student team entered race cars in the second Formula Hybrid International Competition, held last spring. More than 100 undergraduate and graduate students representing various engineering majors participated in the project. This year, IIT placed 3rd (ACE I Car) and 7th (ACE II Car) out of a field of 14 university teams.



Charging station for hybrid solar battery auto rickshaws

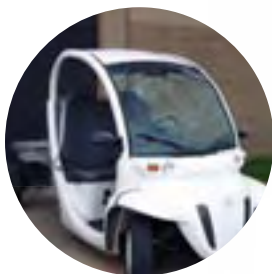
cofounder and chair, Said Al-Hallaj, also serves as IIT research professor of chemical engineering.

Beginning in spring 2007, the Chicago Department of Fleet Management initiated field tests of the prototype vehicle, a converted plug-in hybrid Ford Escape SUV. Emadi's team contributed technical and performance modifications on the plug-in hybrid conversion kit used in the project, which was done in collaboration with the City of Chicago, ComEd, and MicroSun Technologies, LLC.

In August 2007, officials from IIT and Argonne National Laboratory, and Congressman Dan Lipinski joined Al-Hallaj on IIT's Main Campus to introduce several alternative-fuel vehicles to the public. Besides the Ford Escape, the public was invited to test drive the General Motors HydroGen3 fuel-cell vehicle, an IIT-designed hydrogen-powered lawnmower, and a hydrogen fuel-cell scooter.

Lithium-ion battery systems are an ideal power source for electric bicycles, scooters, and vehicles because they are high in energy, lightweight, and rapidly recharged. All Cell has developed a cooling technology that absorbs the excessive heat generated by lithium-ion batteries, thereby making them safer and extending their life.

<http://hybrid.iit.edu>
www.hevt.com
www.allcelltech.com

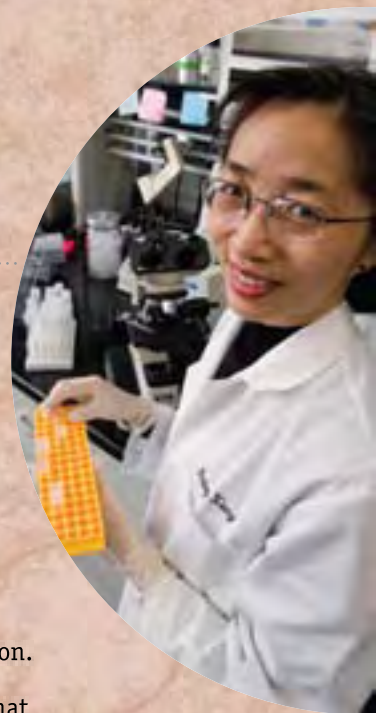


Sounding the Death Knell on Cancer Cells

This year, Jialing Xiang, assistant professor of biology in IIT College of Science and Letters, was awarded a five-year, \$1.5 million grant from the National Institutes of Health to further her efforts focusing on the molecular mechanisms of cancer and potential therapies for treatment. This award follows a \$100,000 grant Xiang received in August 2007 from the Illinois Division of the American Cancer Society.

The focus of Xiang's efforts is a biological process known as programmed cell death or apoptosis, a type of cell death. Cell death is a normal body function. Each day, many cells repair themselves or "commit suicide." One of the ways that stressed and weakened cells die is through apoptosis, in which the cell participates in a biochemical, programmed death, sending out signals to its surrounding environment as it perishes. If apoptosis fails to occur as it should, uncontrolled cell growth occurs, and a number of diseases can result. Apoptosis failure is a major cause of cancer.

Over the past two decades, scientists such as Xiang have taken a closer look at the stepwise signaling done by normal cells in apoptosis and have applied their knowledge to the apoptotic process in cancer cells. Xiang is investigating the role of gene regulator molecules involved in the signaling process. "The outcome of our research will help us to understand how cancer cells are able to escape the 'death penalty,'" she explains. "Our efforts may also identify potential cellular targets for designing anticancer drugs."



Assistant Professor
Jialing Xiang

Researcher Hyun-Soon "Joy" Chong, assistant professor of chemistry in IIT College of Science and Letters, has filed a United States provisional patent application disclosing a series of bimodal synthetic ligands for use in various targeted therapeutic and diagnostic techniques such as antibody-targeted radiation therapy, iron-depletion therapy, magnetic resonance, positron emission tomography, and fluorescence imaging. Chong develops safe, effective, and targeted therapeutic and imaging drugs to treat cancer and neurodegenerative diseases with minimal harm to surrounding cells.

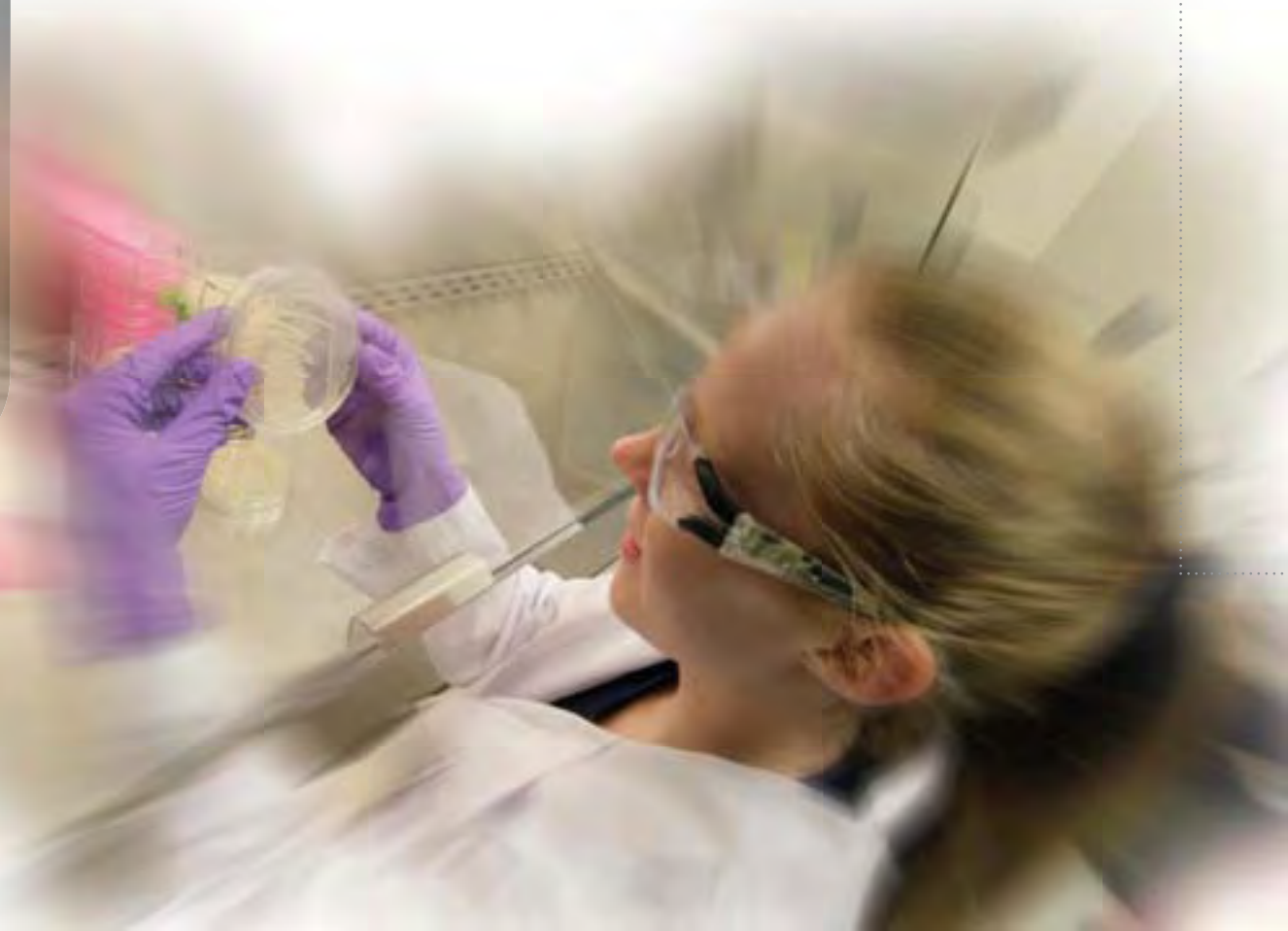
Electronic microscope image of a prostate cancer cell on its way to undergoing programmed cell death

IITRI and NCFST: Research Affiliates Continue to Excel Nationally

IIT Research Institute (IITRI)—an independent, not-for-profit, contract research organization focusing on the life sciences—performed the largest volume of life sciences research projects in the institute’s history. ● The \$28.1 million in research volume represents a year-over-year increase of 19.9 percent, according to David L. McCormick, IITRI’s senior vice president and director.

A longtime leader in research and development services, ● IITRI has been competitively awarded six new programs totaling \$11.7 million that will expand its research in biodefense. The programs involve safety assessments and efficacy evaluations of new drugs and vaccines being developed for the prevention and/or therapy of disease induced by exposure to pathogenic agents.

Last year was the fifth year that IITRI focused entirely on biomedical research and the eighth consecutive year of significant growth for IITRI’s Life Sciences Group.



NCFST is continuing with its lead role in studying food safety hazards associated with fresh-cut leafy greens as part of a four-partner research consortium funded by the United States Department of Agriculture. The center also filed for a low-acid canned food process done through the use of high-pressure-assisted thermal sterilization. A new consortium to exploit pressure and heat synergy is being formed to continue the development of this technology and its application to other food products. A new department designed to expand NCFST's capacity in the area of food-process engineering was recently added.

In 2008, NCFST celebrates two decades of cutting-edge research and scientific excellence in identifying trends and advancing food safety and technology solutions for the global food industry.

Because of state funding cuts, outreach initiatives previously coordinated through the Illinois Center for Food Safety and Technology have now been turned over to the NCFST.

A \$5 million Biosafety Level 3 laboratory and biocontainment pilot plant completed this year is transforming the National Center for Food Safety and Technology (NCFST) into a one-of-a-kind facility for conducting research using virulent organisms. The new laboratory is one of several NCFST facilities completed over the last year to provide expanded food-testing services.

Also completed were a nutrition and biochemistry laboratory at the center's Moffett Campus and the Clinical Nutrition Research Center on IIT's Main Campus. Both facilities add the capability for human clinical testing of food and biological endpoint analysis to existing center expertise. To provide expanded service for NCFST graduate programs and research activities, the center's library was converted from an independent facility to a full branch of IIT's Paul V. Galvin Library.

www.iitri.org
www.ncfst.iit.edu

An IITRI project team completed the validation of a new laboratory to evaluate the possible health effects of radiofrequency radiation emitted by cellular telephones. "The IITRI cell phone laboratory is the largest of its kind in the world and was constructed as part of a \$22 million program sponsored by the National Institute of Environmental Health Sciences," says McCormick. The validation process included an extensive assessment of radiofrequency exposure and monitoring systems performed by engineers from the National Institute of Standards and Technology.



UTP at IIT: Giving Companies an Opportunity to Grow



In the two years since it first opened its doors, University Technology Park at IIT (UTP) has more than doubled its base of high-tech tenants. Supported in part by \$12 million in funding from the State of Illinois and a partnership with Wexford Science + Technology, LLC, UTP continues to attract startups and clients in various stages of growth in a series of developmental phases that will ultimately comprise nine laboratory and office buildings on 15 acres, 1.5 million square feet of space, and a 1,500-car parking garage.

More than 25 groups are now operating under the UTP umbrella. ● One of the largest and most successful is Chromatin, Inc., a biotechnology startup that develops and markets novel genetic proprietary technology to improve the production of plants, such as corn and soybeans. Founder and CEO Daphne Preuss invented and commercialized the technology while teaching at the University of Chicago, where she is on leave from her position as the Albert D. Lasker Professor of Molecular Genetics and Cell Biology.

Kelley Moore and Michael Root, research associates, in the UTP labs of Chromatin, Inc.



Other new food-related clients at UTP include:

- The Sarmas Group, LLC, a developer of intelligent packaging for food safety and preservation
- Clinical Nutrition Research Center, a facility designed and created to conduct outpatient clinical research trials for IIT National Center for Food Safety and Technology

“The Technology Business Center at UTP has been instrumental to Chromatin’s growth strategy,” says Preuss. “At the center, Chromatin has access to office and laboratory space that will support the expansion of its technology from core agricultural crops to feedstock crops that are ideal for biofuel production.” In 2007, the Monsanto Company entered into a three-year partnership with Chromatin to increase the number of modified genes Monsanto is able to insert into various cash crops. ●

Several companies have taken advantage of the many resources UTP provides through its connection to a research university. One example is the Krakow, Poland-based software development firm Comarch, which decided not only to lease space in UTP as part of its expansion into the United States market, but also developed a summer internship at its headquarters as part of IIT’s Interdisciplinary Projects (IPRO) program.

In fall 2007, Comarch offered jobs in business development to eight undergraduate IPRO participants from IIT Armour College of Engineering, IIT College of Science and Letters, IIT Institute of Psychology, and IIT Stuart School of Business. Six of the students accepted the positions. ●

www.universitytechnologypark.com



Chris Primozic (BAAS '07) [left] and Sebastian Babel (EE '08) are employed at Comarch, located in UTP.

● One of UTP’s first clients, Cleversafe—an open-source company committed to storing the world’s data—developed its Dispersed Storage™ Open Source technology five months into its tenancy. Named one of the “101 Best and Brightest Companies to Work For” by the National Association for Business Resources, Cleversafe continued to grow and last January, graduated from UTP to new offices in downtown Chicago. Cleversafe recently won the *Wall Street Journal*’s prestigious Innovation Award and also was honored in 2008 by the Chicago Innovation Awards as one of Chicago’s top 10 innovators.

BioCAT Offers Close-Up View of Muscle Structures and Control



A very high-brightness X-ray beamline is behind recent research discoveries in connective tissue collagen, heart muscle fiber, protein-drug interactions, and cancer therapy research. The projects, which utilize beamline 18-ID at the Advanced Photon Source at Argonne National Laboratory, are coordinated by the Biophysics Collaborative Access Team (BioCAT), directed by Thomas Irving, professor of biology at IIT College of Science and Letters and head of BioCAT's parent group, the IIT Center for Synchrotron Radiation Research and Instrumentation. BioCAT allows for the study of the structure and workings of biological systems under conditions similar to their functional states in living tissues.

"Many of the experiments done at BioCAT are either impossible or very difficult to do anywhere else," explains Irving. "Because of its high available flux intensity, its outstanding beam quality, and its specialized purpose-built detectors, the BioCAT facility has the reputation of being one of the best places in the world for biological fiber diffraction of muscle—including cardiac muscle—and connective tissue systems."

In 2007, Irving received \$6.1 million in funding from the National Institutes of Health to cover BioCAT operations through 2011. The award will enable scientists from IIT and other institutions to continue their investigations of many of the biological structures that comprise the human body, such as

*BioCAT Director
Thomas Irving*



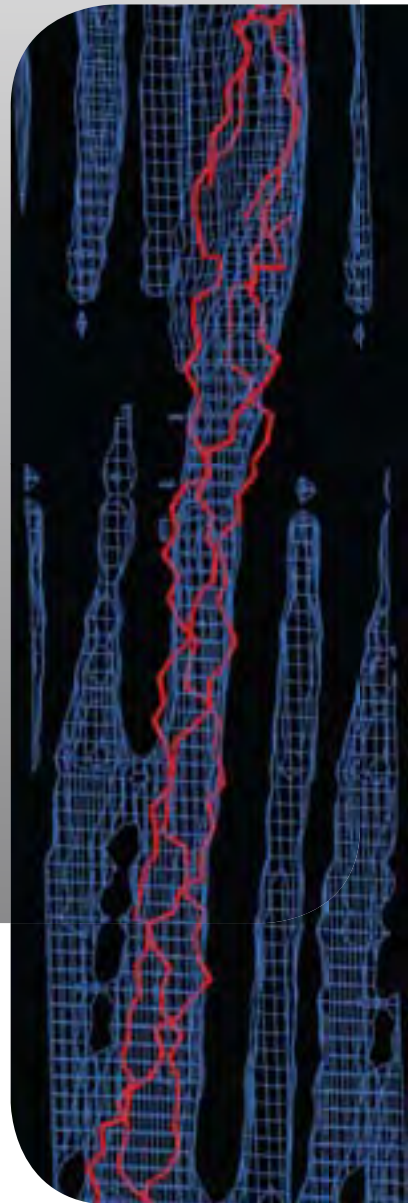
muscle and collagen. The proteins that make up these structures are ideally suited for X-ray beam analysis because of their partially crystalline structure. BioCAT researchers made important discoveries last year through six major biomedical studies:

- Exposed the mechanisms of how various proteins interact with collagen that could help our understanding of heart disease and cancer ●
- Replaced conventional thinking on cellular muscle contraction
- Shed light on how the heart muscle contracts
- Characterized the ways that proteins, such as hemoglobin, interact with other molecules in solution
- Learned how cells get rid of “garbage” proteins
- Performed studies on the use of copper as a cancer therapy target

Investigations done through BioCAT are truly collaborative as nearly 60 user groups from around the world use the facility each year. According to Irving, the center is best known for its work on the basic mechanisms of muscle contraction and control, the relationship of metals to neurodegenerative diseases and cancer, and studies of protein folding. For 2007–08, BioCAT researchers published almost 300 articles in journals such as *Nature*, *Cell*, and the *Proceedings of the National Academy of Sciences*.

www.bio.aps.anl.gov

● **Joseph Orgel**, assistant professor of biology in IIT College of Science and Letters, received an \$878,613 National Science Foundation Faculty Early Career Development Award (CAREER) in 2007 to continue his work in X-ray diffraction studies. The award will support his project “The Molecular Structure of Collagen Type II by Fiber Crystallography,” building upon Orgel’s earlier work on the structure of the Type I form of the fibrous connective tissue.



Electron density image of Type I collagen molecules, determined crystallographically

more: learning & research

Diabetes Efforts Increase Through Grant and Conference

IIT was one of five institutions selected to share in a \$20 million award as the result of a court settlement made in summer 2007 from a consumer class-action lawsuit challenging the effectiveness of the diabetes drug Rezulin. The award is benefiting IIT's Center for Diabetes Research and Policy, with funds being used on a variety of projects, such as enhancing *pro bono* advocacy efforts offered through IIT Chicago-Kent College of Law's Health and Disability Law Clinic, and developing overall policy recommendations affecting patients, diabetes researchers, research institutions, pharmaceutical companies, and the public-health community.

Diabetes brings with it issues that impact lifestyle choices, social factors, and minority incidence. In an effort to address these issues, leaders from the Pan American Health Organization, the Illinois Department of Healthcare and Family Services, the Public Health Economics Program, and other organizations, joined scientists from IIT, Northwestern University, and the University of Vermont as speakers at "Diabetes: Solutions for the 21st Century—Research, Economics, Policy, and Ethics," held in April 2008 at IIT Chicago-Kent College of Law. Participants also had the opportunity to review the latest developments in research, clinical practice, and public policy.

Symposium Benefits Local Manufacturing

In an effort to help small and mid-sized manufacturers address many of today's business challenges, IIT Armour College of Engineering's Department of Mechanical, Materials, and Aerospace Engineering organized the first annual symposium "Sustainability and Product Development," focusing on sustainable manufacturing, advanced manufacturing, and digital design. Held over summer 2008, the event was cosponsored by Eighth District of Illinois Congresswoman Melissa Bean and the Small Business Administration. Argonne National Laboratory, the Chicagoland Chamber of Commerce, and the Chicago Manufacturing Center served as symposium partners.

IIT Schools Earn Marks in Rankings

- IIT Institute of Design is listed as being one of the nation's top design schools in the May 2008 issue of *Metropolis* magazine.
- The Princeton Review listed IIT Stuart School of Business in its *Best 290 Business Schools* guidebook, published in 2007.

Graduate Law Program to Begin in Kosovo

IIT Chicago-Kent College of Law has signed an agreement with the American University in Kosovo, Federal Republic of Yugoslavia, to establish a special graduate program designed to teach Kosovo students about the American and international commercial legal systems. Students will earn a master of laws degree from Chicago-Kent after two semesters, one in Kosovo and the other in Chicago.



New Joint-Degree Program

IIT schools have laid the groundwork for a new joint academic degree program, the L.L.M./M.B.A. degree, which will be offered through IIT Chicago-Kent College of Law and IIT Stuart School of Business.

Brill Endowed Chair Established

IIT Chicago-Kent College of Law established an endowed chair honoring Professor Ralph L. Brill, a member of the faculty since 1961, who founded both the law school's groundbreaking legal research and writing program and its award-winning moot court program.

Franklin Research Grant Awarded

Margaret Power, associate professor of history and pre-law advisor in IIT College of Science and Letters, was awarded a 2008 Franklin Research Grant from the American Philosophical Society to research archives on the Puerto Rican Nationalist Party in Puerto Rico, New Jersey, and New York.



IIT Instrumental in Innovate Now! Initiative

David Pistrui, Coleman Foundation Chair in Entrepreneurship and director of entrepreneurship and innovation at IIT Stuart School of Business, continued his efforts working with the Chicagoland Chamber of Commerce on Innovate Now!, a State of Illinois initiative that the Secretary of Commerce launched to help improve entrepreneurship. Pistrui assisted the group in learning ways to identify how innovation occurs in small to medium-sized firms. He also published the white paper “Innovate Now: Building an Innovation Talent Pool” in October 2007.

Keith McKee, director of the Manufacturing Productivity Center at the IIT Center for Professional Development (CPD) and director of CPD’s Industrial Technology and Management Program, led Innovate Now! efforts in 2007. McKee and his team members analyzed six companies and made recommendations to assist them as well as other Illinois-based businesses.

CPD Business Improvement Tool Receives Kudos

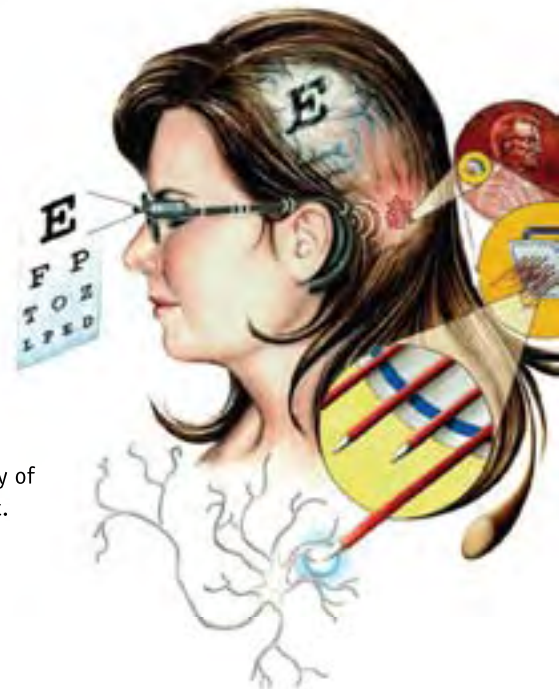
The IIT Center for Professional Development (CPD) continues to impact global industry. Presenters at conferences held in Asia and Europe in 2007 recognized the significance of the Test Maturity Model developed by CPD Director Robert Carlson. The trade journal *Computer Weekly* also devoted an article to the tool, which the Halifax Bank of Scotland uses in its corporate IT and insurance-investment divisions.

Firm Markets Innovative Security Device

The popularity of Voice over Internet Protocol, or VoIP—the technology used to send voice conversations digitally over a data network, such as the Internet—has grown so that companies utilizing the service are becoming increasingly concerned about the theft of valuable information by employees and outside individuals. Technology developed at the VoIP Lab at the IIT Center for Professional Development is being utilized by Chicago-based Salare Security, LLC to market the new data-leakage software vPurity™.

Grant Given to Vision Restoration Research

The Ethan and Seth Fight for Sight Foundation awarded Phil Troyk, associate professor of biomedical engineering at IIT Armour College of Engineering, with a grant in August 2007 to continue his research on vision restoration through the use of a cortical visual prosthesis. The foundation is named for twin boys who were diagnosed with a type of retinopathy of prematurity with retinal detachment. www.fight4sight.org



more: learning & research

Significant Faculty Awards and Honors

- **Hamid Arastoopour** (M.S. GE '75, Ph.D. '78), former dean of IIT Armour College of Engineering, was named Henry R. Linden Professor of Energy.
- **Ophir Frieder**, IITRI Chair Professor of Computer Science and director of the Information Retrieval Laboratory, received a 2008 Technical Achievement Award from the Institute of Electrical and Electronics Engineers, Inc.
- **Fred J. Hickernell**, chair and professor of applied mathematics, was named a fellow of the Institute of Mathematical Statistics.
- **Judith S. Lederman**, senior instructor and director of teacher education in the IIT College of Science and Letters Department of Mathematics and Science Education, received a 2008 Fulbright Fellowship for research in South Africa.
- **Norman G. Lederman**, chair and professor of mathematics and science education, received an honorary doctorate degree in 2008 from the Faculty of Science at Stockholm University for his essential contributions to science education.
- **Henry Linden** (Ph.D. CHE '52), Max McGraw Professor of Energy and Power Engineering and Management, was named to the list of One Hundred Engineers of the Modern Era, compiled by the American Institute of Chemical Engineers.
- **Allan S. Myerson**, Philip Danforth Armour Professor of Engineering, received the 2008 Award in Separations Science and Technology from the American Chemical Society.
- **Susan Conger-Austin**, assistant professor of architecture, received a Fulbright Specialist Grant to teach at Mayor University in Santiago, Chile, in summer 2008.
- **Hassan Nagib**, John T. Rettaliata Distinguished Professor of Mechanical and Aerospace Engineering, was named a fellow of the American Society of Mechanical Engineers. He is already a fellow of the American Physical Society, the American Association for the Advancement of Science, and the American Institute of Aeronautics and Astronautics.
- **Shangping Ren**, assistant professor of computer science, earned a Faculty Early Career Development Award (CAREER) from the National Science Foundation in 2008. Ren's five-year, \$400,000 award will advance research and education in the field of open distributed real-time embedded systems, cyber-physical systems, and programming languages and coordination models for these systems at IIT.
- **Keiichi Sato**, professor at IIT Institute of Design, was awarded a \$399,000 grant from Toyota U.S.A. to develop architectural solutions and design methodologies for the use of personal care robot technology to assist people in everyday life situations.

2007–08 Research Awards to IIT

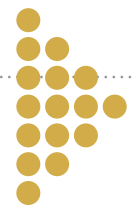
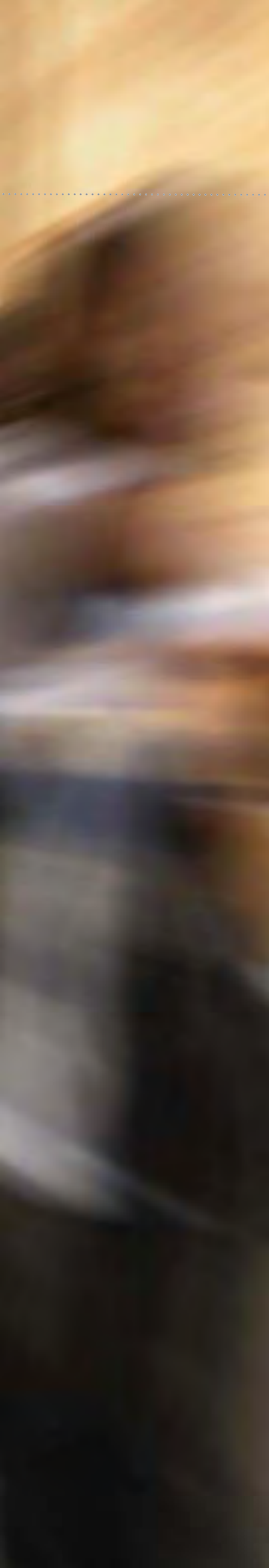




“If everyone is
moving forward
together, then
success takes
care of itself.”

—Henry Ford

forward: community



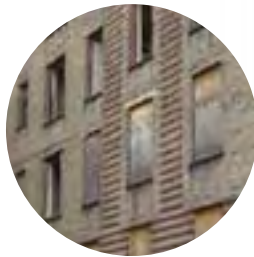
Lessening the Blight of Chicago's Troubled Buildings

IIT Institute of Design (ID) is world renowned for combining strategic thinking and design principles for the creation of user-centered innovation. In several projects launched over the past year, ID expanded upon its role as a leader in innovation by applying design concepts proven to be successful in the corporate world to projects aimed at improving civic life. ●

The City of Chicago tapped ID to help find solutions to what Hardik Bhatt, the city's chief information officer, said Mayor Richard M. Daley has identified as "the biggest problem that the city faces right now"—abandoned

buildings and vacant lots. Bhatt spoke at ID's spring Strategy Conference about Chicago's new Department of Innovation and Technology, part of the new Innovation Center, the first for a major American city.

With boards covering what were once doors and gang graffiti now replacing home addresses, the structures number some 10,000 strong—victims of their owners' death or foreclosure, a fire, or crime. While Chicago is considered a leader in combating such buildings, having established a Troubled



Irene Chong (M.Des./M.B.A. '08) discusses the troubled buildings project with IIT Institute of Design graduate student Gauri Verma.

Other civic-minded projects that ID faculty and students are investigating include:

Kids in Cities Study

A kid-friendly magazine of urban happenings and a universal access pass designated for kids to use on buses, trains, and cabs are just two of the ideas



from the Kids in Cities Study, a concept paper developed by Steven Babitch (M.Des. '07) and Hyunee Jung (M.Des. '07). The study was commissioned by the nonprofit organization CEOs for Cities to find ways to attract and retain young families in urban environments once children reach school age.

New Options Initiative

ID is one of the institutions awarded funding to work on the New Options Initiative, a \$30 million program established by the W. K. Kellogg Foundation to develop an alternative academic path and credentialing program for youth ages 16–24 who do not finish high school. ID will focus its efforts on generating new ideas for a workforce system that connects the market needs of business with the skills of out-of-school youth.

Rethinking Health

With a generous grant from Robert Pew, chair of the board of Steelcase, Inc. and the ID Board of Overseers, ID launched Rethinking Health, an initiative aimed at fixing the United States health care system. Two workshops focused on the six stakeholders in the health care system—employers, health providers, health plans, suppliers, the government, and the population of individuals served—and explored caregiving in a clinic setting and at home.

Buildings Initiative, a Vacant Buildings Program, and a Homeownership Preservation Initiative, Bhatt acknowledged that internal processes and communication with residents were areas that needed improvement. “How do we tell the resident who called about a building the week before why we’re not doing something? Maybe initially we are doing something and are not telling them,” Bhatt told the conference attendees.

In addition to working with City of Chicago staff, Assistant Professor Jeremy Alexis and a team of ID students went into South Side and West Side neighborhoods, where troubled buildings predominate, and spoke with residents of these communities. The ID group discovered that the solution wasn’t as simple as knocking down the buildings, which would only leave troubled lots in their place. Instead, the team decided to develop a holistic communications plan for the nine departments within the city that work on some aspect of abandoned buildings, as well as for residents, building owners, and the business community.

“The troubled buildings project is a good example of how design thinking and design methods can address the systematic issues facing governments,” says Alexis.

This spring, the ID team held a work session with city officials to review and evaluate concepts for improving internal processes through greater alignment and transparency to achieve three goals: early detection, quick resolution, and prevention. The group also held a work session with residents to help enhance communication between them and the city. A variety of concepts were presented to residents to help them feel more connected to what Chicago is doing to fight troubled buildings as well as to encourage them to become more involved in local efforts.

www.id.iit.edu



Unique IIT Programs Improving Math and Science Education


It's easy to be daunted by the statistics of the Chicago Public School (CPS) system. The nation's third-largest school district, with 655 schools, and the city's second-largest employer, it educates more than 400,000 students, 84.9 percent of whom come from low-income households.

At IIT, these statistics spelled opportunity last year, with the university partnering in a broad range of CPS initiatives—from expanding programs in mathematics and science education to providing CPS testing to opening a new school.

Last spring, 10 more CPS schools—for a total of 20 out of 36 eligible schools—chose IIT's Department of Mathematics and Science Education (MSED) as their partner in the High School Transformation Project (HSTP). IIT now counts more than double the number of high school partners than the other universities involved in HSTP.

Funded by the Bill and Melinda Gates Foundation, CPS, and individual schools, this project focuses extensively on weekly teacher coaching. By enriching the mathematics and science curriculum through better teaching and inquiry-based instruction, the program aims to improve students' "learning by doing" in these disciplines.

Although the idea of scientific inquiry has permeated national education reforms, the most recent reforms are more than 10 years old. In addition, few schools have actually implemented scientific inquiry into their programs. Models like HSTP are leading the way, proving how inquiry-based learning can be applied successfully, even within the large CPS system.



Last year, IIT entered an agreement with Perspectives Charter Schools to launch the Perspectives/IIT Mathematics and Science Academy. This new charter school is supported by CPS and a \$500,000 grant from the Motorola Foundation in partnership with the Renaissance Schools Fund. Norman G. Lederman, professor and chair of the Department of Mathematics and Science Education (MSED), and Judith S. Lederman, MSED director of teacher education and senior instructor, developed the science curriculum at the charter school, which welcomed 270 students on opening day in September 2008.

- IIT's Institute of Psychology tested more than 6,000 Chicago Public School students for consideration in the gifted program last year.

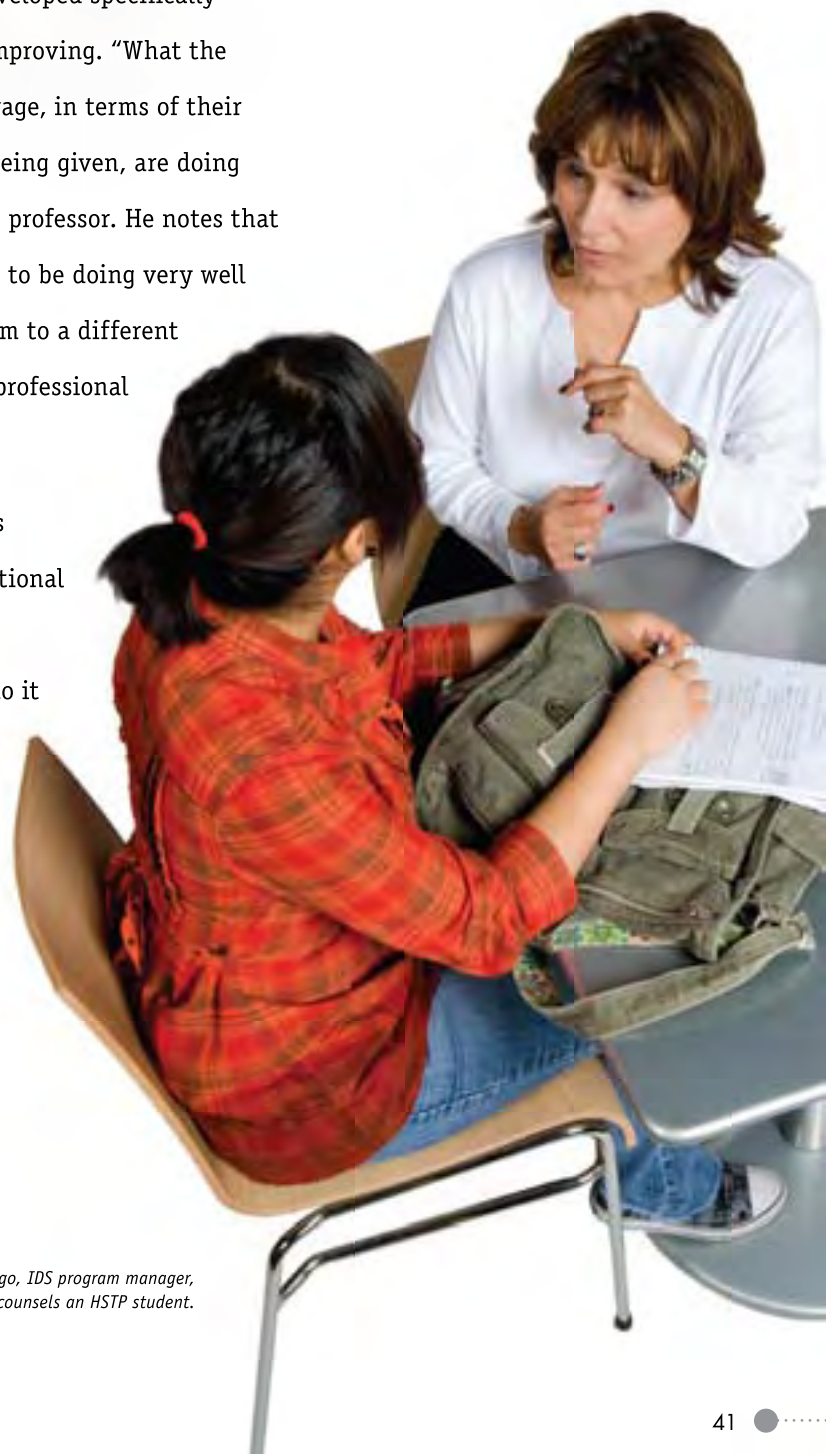


Each quarter, the students undergo testing developed specifically for the program, and so far the scores have been improving. "What the teachers are telling us is that the kids, on the average, in terms of their percentages of achievement on the tests that are being given, are doing better," says Norman G. Lederman, MSED chair and professor. He notes that students in their second year of participation tend to be doing very well and attributes this to such factors as exposing them to a different method of instruction and testing, and providing professional development and support to the teachers.

"It has been a learning experience for teachers and students," says Maria Alvelo-Santiago, instructional development system lead manager for the project. "But once the teachers really grasp it, they buy into it 150 percent."

HSTP is one of the Gates Foundation's largest projects, which also counts The Field Museum and Glencoe Publishing as partners.

<http://msed.iit.edu/test/about>



Maria Alvelo-Santiago, IDS program manager, counsels an HSTP student.

Students and Faculty Behind Structures That Benefit the Community

IIT College of Architecture's influence on the Chicago skyline was cemented in the 1940s, with the transformation of Main Campus into Mies' campus, a landmark collection of more than 20 buildings by Ludwig Mies van der Rohe. Over the past year, from Chicago's North to its South Shore communities, IIT's architecture faculty and students have left their own distinctive mark on local building projects ranging from a treasured artist retreat to an affordable green home to a vibrant youth center.

In December 2007, a group of fourth- and fifth-year architecture students led by Associate Professor Frank Flury presented their proposal to design and rebuild the Meadow Studio, an integral component of the Ragdale artists' community, to members of the Ragdale Foundation and officials from the City of Lake Forest, Ill.

Flury and his team began researching the studio the previous summer, following set project parameters such as utilizing materials harmonious with the studio's prairie location. The team also took measurements and photographs in compliance with standards set by the Historic American Buildings Survey, to ensure exact documentation. After receiving the demolition permit, the students dismantled the existing structure in one weekend last November.

"The dismantling of the existing building was an indescribable learning experience," says Flury, who heads the Design/Build program at IIT, a unique curricula that teaches architectural design through construction. "By taking down the building, literally, piece by piece, the students learned how a building is put together and where it failed."

After a two-month design period, the Ragdale board approved the student design and the Lake Forest-Lake Bluff Historical Society recommended that the permit process continue. After obtaining the permit, the IIT team then prefabricated the building's walls in the Minerals and Metals Building on Main Campus, which were shipped via truck to Lake Forest, and began constructing the studio in May. A dedicated team of five students continued to



IIT students participate in the demolition of the original Meadow Studio under the supervision of Associate Professor Frank Flury [above center]. The new Meadow Studio opened last October [above].



work over the summer and on weekends last fall to complete the building. The studio opened on October 30 with a big party in the prairie.

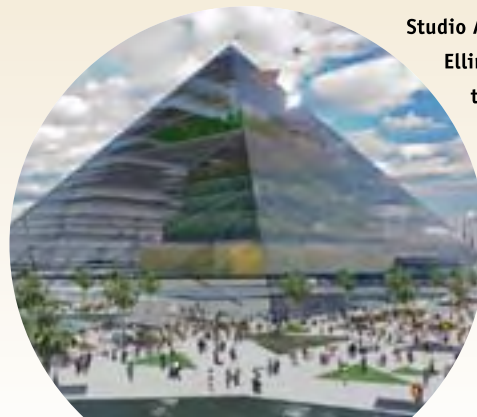
Another group of architecture students, under the direction of Assistant Professor Eva Kultermann, completed a yearlong project on the design and construction of an affordable and environmentally responsible urban green home on the city's South Side. ● The 1,800-square-foot home, completed in summer 2007, was a collaboration with the Genesis Housing Development Corporation and features renewable, low-toxicity materials, heavily insulated walls and roofing, and a central atrium that serves as a thermal collector and solar chimney.

"The project demonstrates how the collaboration of educational, public, and private institutions can make progress in aggressively addressing local housing issues by providing a model that will promote stability and improve quality of life in urban communities," says Kultermann. "The completed building now acts as a demonstration project for Chicago architects, developers, and contractors in how to mainstream environmentally sustainable design and building practices into production housing."



Kids on the city's South Side now have a recreation center that is not only warm and welcoming, but award-winning, thanks to Assistant Professor John Ronan. The Gary Comer Youth Center, designed by John Ronan Architects, was recognized with three significant architecture awards in 2007: the Merit Award for New Construction from the Chicago Building Congress; an American Architecture Award from the Chicago Athenaeum Museum of Architecture and Design, together with Metropolitan Arts Press, Ltd.; and the Richard H. Driehaus Foundation Award (first place) for Architectural Excellence in Community Design.

Trees felled near IIT's Main Campus due to infestation by the emerald ash borer were given new life through an architecture and furniture class led by Studio Associate Professor Paul Pettigrew. Students in his course designed and fabricated gift shop items and furniture from wood recovered from the trees. The items are part of the traveling exhibit *Rising from the Ashes: Furniture from Lost Trees* and were on display at the Morton Arboretum over summer 2008.



Studio Associate Professor Eric Ellingsen and his students helped to design the exhibit *The Vertical Farm*, an architectural solution to the global ecological and urban crisis. The exhibit is on display at Chicago's Museum of Science and Industry through September 2009.

Forging Bonds with the Far East to Counteract Stigma

Of the roughly 1.3 billion people living in China, an estimated 18 percent have disabilities. Few universities in China offer coursework on rehabilitation psychology, and many employers support stigmatizing beliefs about various disorders affecting potential employees. To help China in its efforts to rehabilitate patients and educate employers and health care professionals, faculty from IIT Institute of Psychology are engaging in several collaborative projects between the two countries.

Last year, the institute partnered with the Guangdong Provincial Work Injury Rehabilitation Center in Guangzhou, China, to establish the Center of Research on Vocational Rehabilitation in China. The new center focuses on examining evidence-based projects that identify best practices to help employers determine when injured workers can return to their jobs. This work continues the China outreach efforts of Chow Lam, Distinguished IIT Professor and director of the institute's Rehabilitation Counseling Program, who initiated partnerships with the Chinese Academy of Sciences (CAS), Beijing Normal University (BNU), Hong Kong Polytechnic (HKP), and Sun Yat-sen University of Medical Science to develop programs in rehabilitation counseling.

CAS, BNU, and HKP are continuing their work with IIT and other American institutions on a joint National Institutes of Health-funded program studying the stigmas employers have of individuals afflicted with psychotic disorders, alcohol abuse disorders, and HIV/AIDS. Lam, along with Professor Patrick Corrigan, ● Clinical Assistant Professor Jon Larson, and Dean M. Ellen Mitchell, met with Chinese researchers in Beijing last year to discuss their progress. In a show of health care goodwill, Mitchell signed a Memorandum of



This summer, 13 Chicago-area high school students were introduced to the field of psychology through the institute's new program, Psychology in Everyday Life, led by Robert Schleser, professor of clinical psychology. With field trips and group discussions, the four-day session taught students that the value of what they learn in the classroom is not based on exam scores, but rather on the insight they gain by being able to see and understand the principles of psychology in everyday human behaviors.

Understanding with the CAS that will ensure collaborative opportunities on research, publications, grants, and academic exchange between the institutions.

"Our partnerships with China are expanding as the need for solid programs to address the impacts of natural disaster and disability increases," says Mitchell. "The population of persons with disabilities in China now exceeds 80 million, and there is a dearth of programs to support the psychological adjustment and employment of disabled persons. We are uniquely poised to support the development of those programs as the lead collaborator in this area through the work of Distinguished Professor Lam and Professor Corrigan, who are leading scholars in rehabilitation psychology."



[Left to right] Distinguished IIT Professor Chow Lam, Clinical Assistant Professor Jon Larson, and Professor Patrick Corrigan

25

The Clinical Psychology Program celebrated its 25th anniversary in May 2008. The American Psychological Association renewed the program's accreditation for another five years.

In addition to his stigma work in China, Corrigan helped the Carter Center in Atlanta draft its agenda on stigma and empowerment. He also has been meeting with government officials in Canada about the country's new agenda on addressing stigma and developing rigorous programs to mark its effects.

more: community

Water Purification Project on Tap

The Environmental Engineering Group in IIT Armour College of Engineering's Department of Civil, Architectural, and Environmental Engineering was awarded \$794,200 to begin the first phase of a water purification project for the Metropolitan Water Reclamation District of Greater Chicago. The project is an odor-monitoring program verification and control strategy study at the Stickney Water Reclamation Plant, the largest wastewater treatment facility in the world.

Voices of the Holocaust to Expand Through Grant

Last year, an IIT Institute of Psychology project of historical significance received valuable financial support, expanding further its reach into 1946 Europe. A national foundation anonymously awarded a \$50,000 grant to Voices of the Holocaust—a project that encompasses the translation, transcription, and preservation of hours of interviews of Holocaust survivors—on condition that IIT match the amount.

The monies raised this year will add many more hours of interviews in eight languages. Voices of the Holocaust will be on loan to the Illinois Holocaust Museum, slated to open in Skokie in 2009. Ten years ago, Dean M. Ellen Mitchell and Paul V. Galvin Library staff unearthed these 1946 interviews of displaced persons from all walks of life, which were conducted by David Boder, former psychology chair at IIT and a former faculty member and chair of the Department of Psychology and Philosophy at Lewis Institute of Chicago, one of IIT's predecessor colleges. <http://voices.iit.edu>



A2J Author Redux

IIT Chicago-Kent College of Law's Center for Access to Justice and Technology was honored with the 2008 Louis M. Brown Award for Legal Access from the American Bar Association. The award recognizes, in part, the center's work in enhancing access to justice through the development of A2J Author™, a unique software tool that serves to empower courts, legal-services organizations, and educational institutions to provide low-income individuals who are not represented by attorneys with the tools to defend themselves in court for specific legal matters. This spring, the center released the A2J Author™ 2.0 upgrade.



Reaching out to future engineers, IIT's Center for Professional Development sponsors youth activities as part of Engineers Week each year as well as the JETS-TEAMS competition.

CPD Sparks Interest for Future Engineers and Scientists

"When will I ever use this?" is the question that serves as the intellectual springboard to the highly successful JETS-TEAMS (Junior Engineering Technical Society's Tests of Engineering Aptitude, Mathematics, and Science) competition for high school students. Held annually at the Rice Campus through IIT's Center for Professional Development, the event is meant to show how math and science applications affect everyday life. The 2007 competition drew 26 teams from 14 area high schools.

www.jets.org

IIT Chicago-Kent Offers Students Inside View of Law

More than two-dozen undergraduates from colleges across the United States spent four weeks in Chicago this summer learning about the legal profession in a special program held at IIT Chicago-Kent College of Law. The students were participants in the Pre-Law Undergraduate Scholars (PLUS) Program, which aims to introduce first- through third-year students to law and provide them with skills to help increase their chances of successful law school applications. In addition to enrolling in undergraduate-adapted law school courses at Chicago-Kent, the PLUS students visited courts, participated in a mock trial, and engaged in other useful activities.



Largest IIT Stuart Grant for New Science and Technology Academy

Chicago Public Schools CEO Arne Duncan and former Illinois Senator Carol Moseley Braun are two honorary board members of the Academy for Future Leaders in Science and Technology, an initiative of the IIT Stuart School of Business Center for Strategic Competitiveness (CSC). The Toyota U.S.A. Foundation awarded the CSC a \$500,000 grant—the largest in Stuart history—to support the academy, which will launch in summer 2009.

Geared toward underserved high school students in the Chicago area, the academy will focus on providing students with a rich and diverse immersion in the fields of environmental science, sustainability, and management. Students will be mentored by globally recognized experts and matched with a paid professional internship during the program session.

Established in 2007, the CSC is a university-wide initiative designed to focus academic and practitioner partners, both on campus and off campus, to assist the private and public sectors in facilitating economic, workforce, and entrepreneurial development. The center is supported by a network of academics and successful executives who share their knowledge and experience via research projects, speaker series lectures, conferences, and competitiveness-centered programs. Stuart Dean and Harold L. Stuart Professor of Management and Economic Development Harvey Kahalas heads the center along with an advisory board composed of national leaders in academia and the automotive, finance, health care, and marketing industries.
www.stuart.iit.edu/csc



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IIT STUART CENTER FOR STRATEGIC COMPETITIVENESS



Dean Harvey Kahalas,
IIT Stuart School of Business





“There are many ways of going forward, but only one way of standing still.”

—Franklin D. Roosevelt

forward: campus



IIT Launches Ambitious Planning Effort

From the founding of IIT in the 1890s to the 1996 National Commission for IIT, the university's evolution can be traced through a history of successful planning initiatives aimed at redefining and improving IIT's academic and research mission.

Last year, President John Anderson launched an exciting new chapter in IIT's history—Many Voices, One Vision (MVOV). It seeks to identify and further IIT's core strengths in teaching and research, while achieving a bold end goal: elevating IIT as a major force in higher education.

Headed by the new Office of Institutional Strategy, MVOV is a collaborative, university-wide endeavor supported by a new vision for IIT. At the onset of the planning process in spring 2008, MVOV leadership invited members of the IIT community to submit their thoughts regarding the areas of strength and innovation where IIT should focus its resources. More than 660 students, faculty, staff, and trustees registered their involvement in MVOV, submitting more than 300 ideas, which the steering committee, consisting of representatives from each of those constituencies, researched last summer.

"IIT can contend for a place among the very best universities by focusing on our strengths in technical and professional education and research, and by leveraging our international diversity and Chicago location," says Anderson. "Through smart choices and collective participation, I know we will shape a successful plan."

The core operating principles of MVOV will:

- focus on students
- commit to diversity
- improve resource management
- engage alumni
- strengthen faculty
- foster leadership
- heighten visibility
- live our values

IIT Vision

IIT will be internationally recognized in distinctive areas of education and research, using as its platform the global city of Chicago, driven by a focus on professional and technology-oriented education, and based on a culture of innovation that embraces bold and transformational ideas.



MVOV added the Reading Room to its website to further conversation about IIT's future direction. The Reading Room includes a series of thought-provoking articles, a subscription list for updates on the planning progress, and a forum where the IIT community can discuss the plans as they develop.

The Many Voices, One Vision revised draft plan will be proposed to the IIT Board of Trustees in February 2009, and a final plan will be presented in May 2009.

<http://manyvoices.iit.edu>



many voices, one vision

IIT to Become a Living Laboratory of Smart Grids

With power outages costing the United States an estimated \$150 billion annually, compounded by the high cost of fossil fuels, it's safe to say that if an energy crisis has not arrived, it certainly is looming.

A five-year, \$7 million grant from the Department of Energy (DOE) last spring and a \$5 million investment from IIT has made possible the IIT Perfect Power System, which will create a model to replace outdated electricity-delivery systems that are unable to meet an ever-growing demand for energy. At the heart of Perfect Power are smart grids that feature a loop system and a redundant electricity network. This new system relies on faster controllers that can respond to the ebbs and flows of energy usage and alter the supply—and ultimately, cost—accordingly.

The DOE grant—supporting IIT as one of nine demonstration projects selected to increase the efficiency of the nation's electricity grid—will also support the retrofitting of buildings, additional and more efficient energy-generating units, an upgraded cable system, and renewable electricity generation. The latter includes the installation of solar panels on the rooftop of IIT's Siegel Hall. The smart grid system and additional upgrades will allow IIT to minimize costs and reduce waste and greenhouse-gas emissions.

IIT hopes to apply the lessons from the Perfect Power System to communities nationwide. "IIT is the first university that is doing this type of project on a large scale," says Mohammad Shahidehpour, the principal investigator of the Perfect Power System and chair of the IIT Department of Electrical and Computer Engineering (ECE). "If we succeed, we can use our plan

IIT's Downtown Campus was awarded two grants from the Illinois Clean Energy Foundation to cover the cost of replacing the majority of its light fixtures with energy-efficient fixtures. The Downtown Campus also registered with the United States Green Building Council to be considered a LEED-certified existing building.

The high-reliability power distribution system, which will be implemented as part of the Perfect Power System at IIT, will integrate various energy platforms across Main Campus. Each numbered loop represents a redundant system designed to increase the security and reliability of energy delivery.





as a means for promoting Perfect Power nationally, helping utility companies and customers, and reducing our dependence on foreign oil. It's a whole new era for energy transmission, generation, and utilization."

IIT's ECE department is leading the Perfect Power System. Partners include the Galvin Electricity Initiative, Endurant Energy, Exelon/ComEd, Areva, and S&C Electric Company.

Shahidehpour and Zuyi Li, another ECE professor, are working on a three-year research grant funded by the National Science Foundation (NSF) on the coordination of wind and hydroelectric power generation for reducing the dependence on fossil fuel generating units. The NSF research investigation, along with the Perfect Power System, will set a new direction for the electric power systems of the twenty-first century.

It's estimated that the one to three power outages that affect IIT each year cost the university about \$500,000 in restoration costs, irrecoverable experiments, and lost productivity. Fiscal and environmental benefits from an improved system will include:

- IIT will save \$500,000–\$1.5 million per year on energy costs by purchasing electricity in real time and using onsite generation.
- The Perfect Power Prototype and other energy-saving initiatives at IIT are expected to improve the university's electricity efficiency by 20 percent.
- Perfect Power will defer costs for a planned IIT substation retrofit and eliminate the need for an additional substation. Total cost savings: \$7 million.
- New high-efficiency water boilers will save IIT \$425,000 in fuel costs each year and reduce the university's CO₂ emissions by 3.5 million pounds annually; a new high-efficiency hot water/steam plant will reduce CO₂ emissions by 10.4 million pounds annually.



Last spring, IIT launched the new Office of Campus Energy and Sustainability. The new administrative team will develop an IIT Energy Management Plan to ensure that IIT is incorporating environmentally friendly practices into its day-to-day operations, ultimately benefiting the university on environmental, social, and economic levels. The office is working alongside the faculty-led University Sustainability Committee to engage faculty in the greening process. Already, the committee has worked with IIT to replace three worn-out, gas-powered facilities vehicles with all-electric vehicles, and IIT plans to phase in an all-green fleet.



John Anderson Inaugurated as Eighth President of IIT

More than 1,000 guests and 25 delegates from other universities filled Hermann Hall's McCormick Auditorium in October 2007 for the inauguration of John Anderson as the eighth president of IIT.

Jared Cohon, president of Carnegie Mellon University, presented the keynote address at the ceremony, which opened with an assembly of 98 students carrying the flag of their native countries. The day's festivities also included the third annual IIT Pumpkin Launch. ●



In his address, Anderson—formerly the provost of Case Western Reserve University and dean of the College of Engineering at Carnegie Mellon—invited the IIT community to contribute their ideas toward IIT’s historic planning effort, *Many Voices, One Vision*, which was also the theme of the inauguration celebration.

“Shaping our vision for the future of IIT is my top priority in the coming year, and as today’s theme suggests, we must hear from a diversity of voices,” said Anderson. For more information about the *Many Voices, One Vision* strategic planning effort, see page 50 or visit <http://manyvoices.iit.edu>.

● *Many Voices, One Vision* was just one of the topics covered at the President’s Alumni Tour following the inauguration of President John Anderson. Anderson clocked 6,700 miles visiting with alumni about the future of IIT. The tour included stops in Los Angeles; San Diego; Palo Alto, Calif.; Detroit; Fort Lauderdale, Fla.; and Naperville, Ill.

● Pride was on the line as 19 teams of more than 100 students competed in the IIT Pumpkin Launch. With devices ranging from trebuchets to ballistas, the teams (and their contraptions) hurled pumpkins across Siegel Field. A team representing the American Society of Civil Engineers, which counted President John Anderson among its members, won with a distance of 234 feet. The event garnered significant local media coverage and a story on CNN.



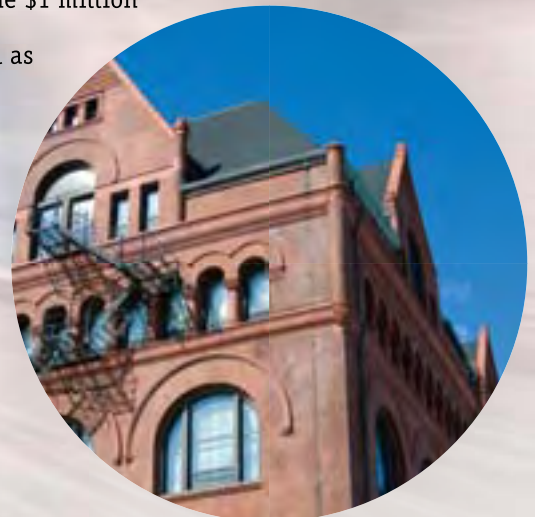
What's Old is New Again on IIT Campuses

With buildings dating back to 1890, IIT's Main Campus has earned its recognition among the National Register of Historic Places and Chicago landmarks. At IIT, renovations must strike a careful balancing between preserving historic beauty and modernizing laboratories and learning spaces. Last year's facilities projects accomplished both.

One of the most visible projects, launched last winter and ongoing, is the renovation of IIT's oldest structure, Main Building. ● The five-story, Romanesque building is being renovated in several phases, in part to make it compliant with the Americans with Disabilities Act. The building's aging elevator was replaced with a new elevator, and additional upgrades include new restrooms on all floors and a new, wheelchair-accessible access ramp. Alumnus Bob Schmidt (ME '36) and his wife, Violet, also provided a \$1 million gift toward the repair of the building's façade.

Last year, the Mies van der Rohe Society launched a renovation effort for Carr Memorial Chapel, among the Ludwig Mies van der Rohe-designed buildings on Main Campus that have been or will be renovated. ● The \$1 million campaign will help fund the repair of the chapel's roof as well as provide for a complete restoration of its interior and exterior. The steps of Wishnick Hall, another Mies structure, were also renovated.

www.mies.iit.edu





● IIT College of Architecture won the 2007 Patron of the Year Award for its renovation of S. R. Crown Hall, which is a National Historic Landmark. Presented by the Chicago Architecture Foundation, the award is designed to acknowledge significant architecture patrons in the Chicago area, honoring individuals, corporations, committees, institutions, and government bodies that commission, finance, and execute a single building or a complex of related structures deemed innovative in its design.

A significant renovation effort for living and learning spaces also began last year and is ongoing. Updates include:

- The modernization of 18 classrooms campus wide
- Dedication of the James Y. Oldshue (CHE '47, M.S. '49, Ph.D. '51) Laboratory in Perlstein Hall, ● the James C. Klouda (EE '50) Laboratory in Siegel Hall, and the Dorothy Gurtz Conference Room in The McCormick Tribune Campus Center, donated by Gurtz Electric and the Gurtz family
- Dedication of the David Hovey (ARCH '67, M.S. '71) Studio in S. R. Crown Hall; Hovey is an IIT trustee
- Expansion of IIT College of Architecture's Graham Resource Center, which doubled its square footage and included the addition of a Rare Book Room



more: campus

IIT Launches Redesigned Website

Last year, IIT launched its redesigned website, which includes profiles of more than 125 students, faculty, alumni, staff, and research projects. As part of the site's new rollout, IIT Stuart School of Business launched Explore Stuart, an online multimedia library featuring videos, podcasts, publications, and helpful links for prospective students.

www.iit.edu

www.stuart.iit.edu/explorestuart



IIT Holds Historic Commencement on Campus

More than 5,000 IIT graduates and their friends and families gathered on Main Campus for Commencement 2008. It was the first time in more than a decade that a once-annual ceremony was held on IIT's campus. The keynote speaker was entrepreneur Dean Kamen, inventor of the Segway.



Charles W. Pierce Earns Place in IIT History

At a ceremony held last October, the IIT community recognized alumnus Charles Warner Pierce as having achieved two historic firsts: the nation's first-known African-American degree-holding chemical engineer and the first graduate of IIT's chemical engineering program. Pierce's nephew accepted the 2007 Distinguished Alumni Award, now called the Charles W. Pierce Distinguished Alumni Award, on behalf of his uncle.

CSL Welcomes New Social Sciences Chair

Patrick Ireland joined IIT College of Science and Letters as chair of the Department of Social Sciences in September 2007. Prior to coming to IIT, Ireland taught comparative politics, research methodologies, and international political economy at the American University of Beirut, in Lebanon.

IIT Welcomes New Provost and CSL Dean

Following nationwide searches last year, IIT welcomed two new leaders to its academic community: Alan Cramb, the university's new provost and senior vice president for academic affairs, and Russell Betts, new dean of IIT College of Science and Letters and professor of physics.

Former dean of the School of Engineering at Rensselaer Polytechnic Institute, Cramb served as head of the Department of Materials Science and Engineering at Carnegie Mellon University, where he also was a professor and co-director of the Center for Iron and Steelmaking Research. Cramb is the author of more than 190 publications, the holder of two patents, and a fellow of the Iron and Steel Society.

Betts, a highly regarded researcher in the fields of atomic, nuclear, and high-energy physics, came to IIT from the University of Illinois at Chicago, where he was vice provost for planning and programs, and a professor of physics. An award-winning teacher, Betts is known for his work on cluster structure in atomic nuclei. His appointment follows the retirement of F. R. "Buck" McMorris, who retired at the end of the academic year after serving as dean for five years.



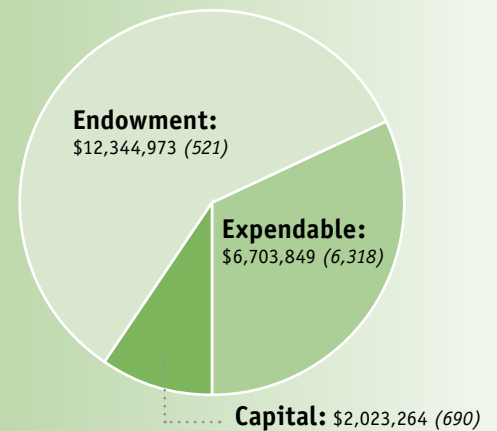
CSL Dean Russell Betts [left] and Provost Alan Cramb

20-Year Progress Statement

Since 1988, individuals, corporations, and foundations have honored IIT by contributing more than \$500 million to support the university.

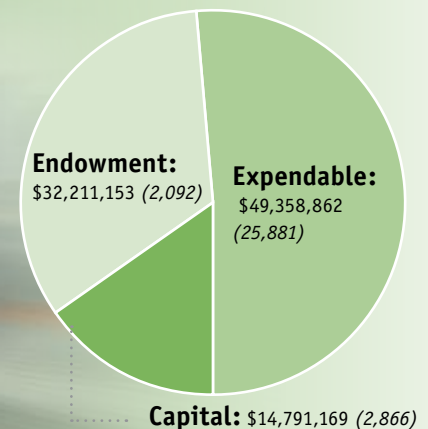
FY08 Gifts to IIT By Category

(number of gifts)



FY05–FY08 Gifts to IIT By Category

(number of gifts)



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