



[Left to right] Donna Robertson, Jeanne Rowe, and John Rowe at the induction ceremony for Robertson as the inaugural John and Jeanne Rowe Endowed Chair

Donna V. Robertson Receives John and Jeanne Rowe Endowed Chair

Donna V. Robertson, dean and professor, is the recipient of the John and Jeanne Rowe Endowed Chair for the IIT College of Architecture. John Rowe, chairman, president, and CEO of Exelon Corporation, and chair of the IIT Board of Trustees, and Lew Collens, past president of IIT, spoke at Robertson's induction ceremony, held in April at The McCormick Tribune Campus Center. Also speaking was Blair Kamin, Pulitzer Prize-winning architecture critic of the *Chicago Tribune*, who presented the lecture "Extreme Architecture: Disaster, Spectacle, and Signs of Hope for the Post 9-11 World."

A forward-thinking attitude combined with her recognition of IIT's Miesian heritage culminated in the selection of Robertson as the inaugural chair. "We are honoring Donna's leadership of the College of Architecture and celebrating her commitment in bridging the gap between IIT's Miesian tradition and contemporary architectural ideas," says Rowe, who, along with his wife, Jeanne, established the chair. With IIT for more than a decade,

Robertson was instrumental in elevating the college to its current status as having the 13th best undergraduate architecture program in the nation and the third best program in the Midwest as determined in a survey by the Design Futures Council. A fellow of the prestigious American Institute of Architects, she was named among the city's 100 most influential women for 2006 by *Crain's Chicago Business*. Besides the chair, another recent honor given to Robertson was the 2007 Education Award from the Chicago ACE Mentor Program.

Recognition of Robertson through the Rowe Endowed Chair is ultimately a gift to all students of the college, who will profit from the research, teaching, and leadership of their dean. In an even broader way, Kamin concurs. "Donna asked what she could give me in exchange for doing this talk," Kamin said at the induction, referring to the payment for his investiture lecture services. "And I said: 'Nothing. You've already given me—and Chicago—a lot.'"

Collens Scholarship Program Provides an IIT Education to CPS Grads

This September, IIT welcomed a group of new students with a particularly distinguished standing: the first freshman Collens Scholarship Program recipients. The scholarship honors President Emeritus Lew Collens, who retired in May after 17 years as president of IIT.

The Collens Scholarship Program provides full-tuition scholarships to Chicago Public School (CPS) graduates who meet the university's rigorous academic standards and whose families earn less than \$40,000 annually. Collens, a lifelong Chicagoan, graduated from Senn High School, a Chicago public school.

In May, a dinner honoring Collens for both the scholarship and as the 2007 Heald Award recipient raised \$2 million to begin the program, which was announced in November 2006.

"The Collens Scholarship is an expression of the IIT mission to transform lives, and a fitting tribute to Lew, who rescued and transformed IIT," John Rowe, chairman, president, and chief executive officer of Exelon Corporation and chair of IIT's Board of Trustees, said at the event. "It

honors the spirit of Philip Armour, when he founded the Armour Institute to serve children of the city's working class in 1890."

Seventy-three percent of Chicago children live in low-income households, where parents have a high school degree but no college education.

"This initiative is designed to address the very real dilemmas experienced by families struggling to balance rising living expenses and the cost of higher education," Collens told the audience of IIT alumni, donors, and friends. "This program can make a lasting impact on the growing national crisis in math and science education."

Rufus Williams, president of the Chicago Board of Education, said local universities



Professor Leon Lederman [left] presents Lew Collens with the 2007 Heald Award.

"see local talent, and they want to be part of developing it to its fullest potential."

Chicago Public Schools is the nation's third-largest school system. It includes more than 600 schools and serves about 415,000 students. Last year, of the 484 freshmen who entered IIT, 46 were from CPS. It is IIT's goal to support 100 CPS graduates during the next four years.

Students donned some of the more than 3,000 T-shirts emblazoned with the new IIT brand identity.



The IIT Brand Promise

We are – an academic experience grounded in engineering, science, and technology

We are – exceptional students with an intense work ethic

We are – innovative and entrepreneurial

We are – Chicago, a total urban experience

In March, during the familiar time of year when the city-wide gray hasn't yet subsided and there's scant evidence of anything green, rows of new banners brought a bit of color to State Street and

comprehensive placement to gain recognition is basic marketing strategy (the ridership on the westbound Burlington commuter train alone provides 1.3 million viewers each month).

element through their outreach to the student body's various clubs and campus organizations.

Over the past few months, that research and testing has inspired an IIT College Dictionary that will include more than 500 words. This IIT-specific glossary will capture the essence of the university, its mission, and the significant contributions of its graduates.

The IIT community is embracing its new identity. New "universiity" coffee mugs are found on desks throughout the campuses, and more than 3,000 T-shirts with words such as "originaliity," "personaliity," "communiity," and "individualiity" were distributed to students, faculty, and staff. The campaign also has taken on a life of its own: Chicago White Sox game announcers refer to the key play of each game as "the IIT moment of intensiity," and in July, one of the top NASCAR teams featured the word "velociity" on its racecar.

www.iit.edu/departments/pr/campaign_2007

IIT's New Branding Campaign Asks, "How Do You Spell 'Communiity'?"

the IIT corridor. Against a black background, large white and red letters displayed a series of four words that defined the very pulse and verve of IIT. Interestingly, each and every word was misspelled. Intentionally.

In a creative strategy that takes a slight poke at the seriousness of academia, while also embedding "iit" into words that capture fundamental qualities of IIT's reputation, the Office of Communications and Marketing (C&M), with the strategic support of IIT alumnus Joel Krauss (MATH '71), launched IIT's new branding campaign. As the banners snapped against the late winter wind, students, staff, faculty, administration, area residents, and commuters learned the basics of a whole new vocabulary: Curiosiity, Tenaciity, Ciity Life, and Ingenuiity. After defining the many unique attributes of IIT, C&M developed this new set of words as a way to boast the university's academic reputation throughout the Chicago area.

In addition to the banners on State, 33rd, and 35th streets, the campaign has included bus panels and billboards along major expressways, as well as train stations and platforms. Radio ads created for the campaign can be heard on five different Chicago radio stations. Orchestrating

However, it takes more than market saturation to brand a university.

Scott Dunnell, director of marketing, says, "It's not just a matter of external advertising. A branding campaign creates community as much as it does awareness." When a branding campaign is successful, people within the organization feel ownership of it. Which is why more than 250 people participated in the two-month-long research phase of the campaign: current and prospective students, faculty, staff, alumni, and members of the business community. Dunnell learned from an awareness study conducted the year before that, despite the university's rich heritage as a leader in science and technology, IIT did not have a strong presence to prospective students and members of the business community.

For additional input on IIT's image from a student perspective, Dunnell created a student marketing advisory board last fall. More than 20 IIT students were selected, representing a wide range of ages, colleges, and ethnicities. The board participated in research, strategic planning, and marketing efforts connected with the campaign. They also provided an instrumental grassroots

Curiosiity
Tenaciity
Ingenuiity
Ciity Life



UTP Watch

University Technology Park At IIT continues to add companies. With the recent addition of Comarch, a Polish software-development firm, more than 15 companies now call UTP home. A rapidly growing company, Comarch has made UTP its North American headquarters, citing the location, availability of high-quality computer science students, and IIT's links to its home base in Krakow, Poland, as reasons for its decision to join UTP.

On the construction front, the beautifully landscaped plaza along Dearborn Parkway is now complete, providing a welcoming entrance to UTP. Construction of the core and shell of the expanded Incubator facility is well underway. When completed next year, the facility will provide spaces for 30 start-up companies in life sciences, engineering, and clean energy.

www.universitytechnologypark.com



Photo: Mindy Sherman

College of Architecture faculty member Richard Nelson makes some final adjustments to the IIT Cool Globe onsite at Chicago's lakefront.

Global Change

Architecture faculty members Catherine Wetzel and Richard Nelson designed and produced "Oath of Office," one of 122 five-foot-tall spheres featured in the public art exhibit Cool Globes: Hot Ideas for a Cooler Planet. Organized by the City of Chicago, the Chicago Park District, The Field Museum, and Exelon Corporation, the project's intent is to increase awareness about global climate change. Graduate architecture students John Castro, Katie Hart, Bridget O'Connell, Tyler Waldorf, Andrew Widman, and Camille Yu assisted in the production of the globe, which features an ocean surface with color-changing, temperature-sensitive paint, continents listing the variety of possible "green" professions, and a rewriting of the preamble to the United States Constitution as the Earth's equator. Cool Globes runs through September 30. The globes will be auctioned off October 5 at the Auditorium Theater, with proceeds benefiting environmental education programs.

FollowUp

Updates on the people and places previously covered in IIT Magazine

"Building From the Web Up" Fall 2006

College of Architecture Associate Studio Professor Martin Felsen, whose work using digital technologies for better urban growth was featured last year, was a recipient of the History Channel's City of the Future Competition. The contest challenged architecture teams from across the United States to model their vision of a city in 2106. Felsen and wife, Sarah Dunn, principals of the architecture and urban design firm UrbanLab, won both the Chicago competition and the national online competition, creating a holistic urban center where water is more precious than oil. UrbanLab's winning entry featured "Eco-Boulevards" that would encompass a massive "Living Machine," effectively treating 100 percent of Chicago's waste and storm water. www.chil.us

"Changing the Game" Winter 2007

A team of IIT students placed fifth in the inaugural International Formula Hybrid Competition hosted by Dartmouth College in May. Reaching a maximum speed of 45 miles per hour, the vehicle placed third in the acceleration test. The competition marked the first time an IIT team has competed in an intercollegiate auto-racing event. Students from engineering, computer science, and architecture comprised the team, under the supervision of project advisor, Professor Ali Emadi, who was featured last winter. <http://formulahybrid.iit.edu>



Photo: Mindy Sherman

On stage at The Bog

"Students Rally for The Bog" Fall 2006

The grand reopening of The Bog was held February 7-9. The beloved student and faculty hangout features a bowling alley, lounge, bar, and stage for live performances. Students continue the effort to raise funds to offset the cost of renovating The Bog, as profiled last fall. <http://bog.iit.edu>



You Can Take It With You

“The hardest part is getting them to let their guards down,” explains Alfredo Garcia (EE '08) of the students at John C. Burroughs School, with whom

he has worked for the past two years. Part of the Brighton Park Neighborhood Council's outreach program for elementary school students, young adults from the neighborhood such as Garcia meet regularly with students to provide counseling and friendship. “These kids need help and advice from someone they can relate to—someone who went to the same school as them and had the same experiences—not some authority figure.” Every other Friday the group meets at the school to talk about problems at school, at home, and in the neighborhood, and to play basketball. With his outgoing personality and warm smile, Garcia puts others immediately at ease, making it easy to see why troubled kids open up to him.

Most of the people from the neighborhood who are successful move away, Garcia says, “They don't come back to give back to their community. Giving back is important to me.” Garcia uses what he has learned at IIT to show the kids the value of education in terms they can relate to. On one occasion he impressed them by showing how he could fix their video game connection problem using cables he built in IIT's electrical and computer engineering (ECE) lab. His interest in electronics and video games brought Garcia to IIT's electrical engineering program, and he feels his experience as a college student can serve as an example. “The best thing for the kids to learn is they don't have to fall prey to gangs, drugs, and crime like so many others from the neighborhood do. They can be whatever they want in life.”

Active within the IIT community as well, Garcia participates in the Society of Hispanic Professional Engineers and Latinos Involved in Further Education, of which he was recently elected secretary. For the past three years he has held a work-study position in the ECE department, where he assists a lab engineer and in the department office.

Garcia is also an avid dancer, embracing a variety of Latin-American styles, and his memory for music is impressive, causing his friends to nickname him “the human jukebox.” His favorite styles of dance are cumbia, derived from Colombian folk dancing, and bachata, an import from the Dominican Republic.

As he begins his senior year at IIT, Garcia says planning for a career after graduation has him looking for internships at companies locally and outside Chicago. He will have to let down some of his own guards—he wants to stay in the city, where his family and community ties are strong, but is willing to go where he can find a job that's the right fit professionally. Regardless of where new opportunities take him, Garcia says he will remember to take his own good advice and keep his Chicago roots with him.

Major Gift to Benefit Power Engineering Program

In acknowledgment of the crucial place of power in a future increasingly affected by issues of energy and sustainability, The Grainger Foundation of Lake Forest, Ill., has made a \$5 million gift to benefit the Power Engineering Program at IIT. The gift will help recruit highly qualified students and maintain The Grainger Foundation Laboratories, which serve as a focal point of the program.

Headed by President David Grainger, The Grainger Foundation has supported power initiatives in the areas of scholarship funding and facility development at the university for more than two decades. Since the opening of the first Grainger laboratory in 2000, IIT has established the Electric Power and Power Electronics Center in the Department of Electrical and Computer Engineering (ECE), and has added additional Grainger laboratories. The Grainger Foundation Laboratories, which help prepare students for work in power systems, power electronics, electric motor drives, special electric machines, and advanced power engineering, serve as a state-of-the-art showcase of the department's capabilities.

Enrollment figures indicate that ECE students comprise the largest group in Armour College of Engineering, with two-thirds of ECE undergraduates taking at least one power course. While statistics show that enrollment of power students at universities across the United States has dropped since the 1980s, the number of students in the IIT program continues to increase. IIT is the only university in Chicago that offers postgraduate degree programs in electric power engineering.

“The most enduring part of The Grainger Foundation's support is that it is entirely focused on benefiting the students,” says Mohammad Shahidehpour, Bodine Professor and ECE chair. “By helping to maintain our state-of-the-art power laboratories and fostering excellence in our teaching standards and learning environments, the foundation's gift will directly affect the education of some of the best future engineers in the industry.”

The Grainger Foundation was established in 1949 by Mr. and Mrs. William Wallace Grainger, and has provided substantial support over the years to a wide range of organizations, including museums and educational, health care, and human services institutions.

William W. Grainger is the founder of W. W. Grainger, Inc., North America's leading distributor of maintenance, repair, and operating supplies and components.

www.ece.iit.edu

Building the Greenest House in Chicago

Just south of IIT's Main Campus, at 44th Street and Vincennes Avenue, two model homes are showcasing the latest in green building design and technology. The homes were built on land donated by the City of Chicago and introduced under an ordinance by Mayor Richard M. Daley. According to Daley, "These homes are being built as a way to encourage builders, architects, and homebuyers to consider environmentally responsible home designs."

This "green homes project" was developed and spearheaded in large part by College of Architecture faculty member Eva Kultermann, who, along with Leroy Kennedy, vice president of Community Affairs and Outreach, rallied for the project, winning the support of former

Alderwoman Dorothy Tillman and Department of Housing Commissioner Jack Markowski.

One home was built by nonprofit developer Genesis Housing Development Corporation and designed by Ray Dawson PC Architecture and Design. The second home was designed entirely by IIT architecture students. Unlike the Genesis home, which features the most cutting-edge green technology, the IIT home was designed specifically to incorporate existing green technology at an affordable price. IIT's demonstration project is meant to encourage architects, builders, and developers to build energy-efficient housing that is accessible to the average buyer.

A group of fourth- and fifth-year students designed the project during the 2006 spring semester. However, the anticipated one-year project timetable quickly turned into a three-semester schedule as students acquired first-hand experience in the realities of the project delivery process. "Obtaining a building permit, winning aldermanic approval, conducting environmental studies, and a host of additional documentation took four months longer than anticipated," says Kultermann.

IIT sought support in making up for lost time from Erik Olsen, who assists the city in its Green Permit Program. In exchange for expedited housing permits, the city puts a building through a rigorous review to demonstrate that the project is environmentally sustainable. The IIT project received the highest points ever awarded for a residential project, thus making it the "greenest house in Chicago." Construction was scheduled for completion by the end of this summer.

The home earned its title, not through revolutionary new building designs, but by employing low cost, off-the-shelf technologies. Many of the technologies utilized are so-called passive approaches, such as the heating system, which collects solar energy during the day that is stored underneath the house in a rock bin; the heat then radiates out of the floor during the evening hours. The architects also installed



Photos: Bonnie Robinson

This summer work on IIT's green home in Bronzeville was near completion. The home will be listed on the market once completed.

a heat recovery ventilator, a product not widely used in the United States but that is effective in maintaining air quality within the home by bringing in outside air while regulating indoor temperature.

Other environmentally sustainable elements include:

- A retractable night insulation curtain, which will close the large window wall at night, preventing heat loss through the large expanses of glazing
- Energy-efficient lighting
- Advanced framing techniques
- Adjustable shading devices
- A rainwater retention system
- High-efficiency appliances
- A rain garden, pervious paving, and a water cistern

The IIT home will be on display this fall, serving as a demonstration project for the Chicago homebuilding market. It will be listed on the market for \$300,000.



[Above left] Eva Kultermann, College of Architecture faculty member, puts some finishing touches on a window inside the green home.

Finding Art Beneath a Tech Surface

To some outside the realm of a university such as IIT, the work of engineers and scientists may be devoid of visual appeal or imagination. But for many of the faculty members and students here, their work verges on the artistic. Think of the perfection expressed in a mathematical equation, or the incredible complexity and beauty of a microscopic chemical compound.

This natural beauty and wonder are the basis for IIT's first permanent art exhibit, aptly named art @ IIT. Since its inception in 2004, art @ IIT has brought together the seemingly disparate fields of art, science, and technology to reveal their synergies. Initiated by alumna Mindy Sherman (TCOM '05, M.S. '06) while an undergraduate, art @ IIT began as an Interprofessional Projects (IPRO) course to develop a business plan for an art gallery on campus. Professor Robert Krawczyk, director of the undergraduate program for the College of Architecture, was selected as its faculty advisor. The business model was so well received that the university leadership endorsed the creation of a gallery and formed the Art Board, with Krawczyk as its director.

Krawczyk has long been interested in art, describing the natural relationship between art and technology: "A number of scientists and engineers have seen that the results of their investigative processes and procedures, the evidence of their scientific inquiries, produce more than just an explanation or documentation of a phenomenon. A scientific phenomenon often has an artistic aesthetic that transcends its ability to attempt to explain the world around us," he says. "Living cells form patterns of incredible complexity and beauty. The thousands of connectors in transistors in a circuit board form a landscape as beautiful as nature's."

In choosing exhibits, Krawczyk explores everything from technology and imagery to craftsmanship with materials, considering both the content of a work and its execution.

In November 2004, art @ IIT opened in the Kemper Room of Galvin Library. The first exhibit included 24 artists who represented current rapid prototyping methods, 3D printing, and digital sculpture produced in such materials as resin, plastic, starch, plaster, and metal. This group included traditional artists such as Kenneth Snelson, as well as engineers, architects, mathematicians, and computer scientists.

Since then, art @ IIT has hosted and curated three group shows and 10 solo shows, developed six art workshops with the help of the IPRO class, and recently hosted its first architectural exhibit in a second building on campus through the support of the City of Chicago's Sister Cities Program and the Prague Museum. The gallery has garnered numerous local and national reviews, and an "Art Beat" segment on Chicago's WTTW-11.

<http://art.iit.edu>

The art of Dee Breger, professor of materials science and engineering at Drexel University, and director of microscopy at the A. J. Drexel Nanotechnology Institute, will be on display during the fall semester.



Dee Breger, Fossil Antarctic Radiolarian, 1990

A Decade Strong, Architecture Ph.D. Program Contributing to a Better-Built Future

The importance of residential skyscrapers in increasingly space-restricted urban settings is one topic that Mahjoub Elnimeiri is contemplating during this 10th anniversary year of the IIT Doctor of Philosophy in Architecture Program. "Architects are some of those people who are responsible for shaping the environment," says Elnimeiri, who is program director, architecture professor, and a recognized tall buildings expert. According to Elnimeiri, the Ph.D. program was established, in part, out of concern for the environment, which today is facing issues of global warming, resources management, and densely populated cities. "I've always thought—and still think—that architects should work to create a better-built environment for the people."

Creating a better-built environment for the global community is one aim of students in the program, with its roster of candidates from around the world. Twenty-two students have graduated from the program since its inception in April 1997. While a student, Hatice Sözer (Ph.D. ARCH '02) had the opportunity to build integrated photovoltaic systems, and

has returned to her native Turkey to apply the sustainable design principles she learned at IIT. Now an assistant professor at Nigde University, Sözer is helping to form the institution's newly established architecture program as well as finding ways to make the campus a green one.

"I have already made some dramatic changes on the campus plan by taking car roads off-site of campus; greening the inside, mostly by landscaping; and applying photovoltaic street lights," Sözer explains. "When we finish all of our planning, our campus will be the first green campus in Turkey."

The Ph.D. in architecture program is grounded in applications-based research facilitated by the latest technology. In addition to a media center, the program suite features 24 computer stations equipped with software for generative design, engineering analysis, building information modeling, and other digital techniques. Hyeong-Ill Kim (Ph.D. ARCH '04), now an assistant professor in the College of Architecture's Ph.D. program, teaches computer-assisted design classes, among others. He is currently

researching tall building design and working on a research project for the Chicago Center for Green Technology, an organization that helps to bridge the gap between green technology and the consumer.

Even with nine areas of research concentrations to choose from, it is likely that creating a better-built environment to address the energy challenge will be a common focus of students in the architecture Ph.D. program. "The traditional way of thinking is changing. When we started our program, we were emphasizing tall buildings and mega-structures," says Elnimeiri, contemplating the evolution of the program over its first decade.

"But now I would say, without reservation, the concern about the environment is taking over my interest and the interest of many in architecture. That does not mean that we are not looking into tall buildings, form, structure, and materials. On the contrary, we are pushing the envelope in those areas, but we are keeping our focus toward a better and healthier future."

www.iit.edu/colleges/arch