Get in the Game.

SHARETHEPATH

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The love of the game. And of thermodynamics.

Find out what else Irving Burg (ME ’38) and Greg Albright (WMAE ’06) have in common. To read about them and other IIT alumni and students who are sharing the path—and to learn how you can join them—visit www.iit.edu/alumni/sharethepath.
Martin Jischke, president of Purdue University and a 1963 graduate of IIT, recently spoke to the Rotary Club of Chicago–Near South at a meeting on our campus. One of the things he said was that he felt very fortunate to have been the beneficiary of the vision and generosity of Philip Danforth Armour. Martin, who grew up in Chicago as the son of a grocer, said he felt that he was the kind of kid that Philip was trying to help when he contributed the money to found IIT in the late nineteenth century.

Martin’s story of Philip Armour is a reminder of another person who left a great legacy—John Rettaliata. In this issue of the magazine, John reminisces about his days as president of IIT, including his relationship with Mies van der Rohe, the extensive construction of Main Campus, and his constant role as fundraiser. We are all beneficiaries of the vision and dedication that John brought to the university more than a half century ago.

In many respects, IIT is experiencing a similar transformation today with the addition of University Technology Park At IIT. Through partnerships with the city and state, we are beginning the first phase of a new research park—and we’re helping transform our surrounding neighborhood in the process.

Some of the biggest advances on our campuses, however, tend to focus on issues that are somewhat smaller in nature. The work of Dimitri Gidaspow provides you with a big picture view on how nanotechnology is changing our world, while the efforts of IIT’s Center on Nanotechnology and Society evaluate those issues from an ethical perspective.

The stories in this issue of IIT Magazine just scratch the surface of the kind of work that goes on at IIT each and every day. As we continue to plan for our future, I want to thank many of our alumni and friends who recently provided feedback on our Mission, Vision, and Values statement. Your comments and suggestions will continue to motivate us as we create the 2010 Plan that will shape the programs, services, and direction of the university for the coming five years and beyond.

Sincerely,

Lew Collens
President

UPDATE FROM THE president

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The internet contains more than 200 terabytes of information—approximately the size of the entire print collection of the Library of Congress. So far, however, search technology for this information hasn’t kept up with our increased ability to access it.

At IIT, faculty-led student teams are working to make search technology more effective by designing methods to capture and process data from multiple sources in both English and foreign languages.

Search technology developed by IIT’s Information Retrieval Laboratory has already been successfully transferred to a number of organizations that rely heavily on high volumes of information—including the National Institutes of Health, AOL, and Harris Corporation.

Creating solutions for the 21st century.
Just another way IIT is Transforming Lives and Inventing the Future.

To learn more about the exciting things happening at IIT, visit www.iit.edu.

ILLINOIS INSTITUTE OF TECHNOLOGY
A MATTER OF SCALE
As nanotechnology develops with limitless boundaries and increased funding, IIT’s Center on Nanotechnology and Society is asking the million-dollar question: what about ethics?

A SMALL WORLD
A pioneer in fluidization, Professor Dimitri Gidaspow has made a life’s work of research at the particle level.

NEW HORIZON ON THE SOUTH SIDE
Anchored by University Technology Park At IIT and significant development around Main Campus, Chicago’s Mid-South Side is on the brink of a new era.

"WE JUST WORKED HARD"
John T. Rettaliata served as president of IIT during the university’s “golden age.” More than three decades later, he recounts the means to his success.

SNAPSHOTS: THE OFF-THE-COURT LIVES OF IIT STUDENT-ATHLETES
They run, swim, and shoot—and score big in class and life. Five IIT Scarlet Hawks share their IIT experiences off the courts, fields, and tracks.
Alumnus Remembers Professor’s Impact

After reading your article, “Irwin Fieldhouse’s Research Legacy,” [summer 2003], I wanted to express my personal gratitude to Mr. Fieldhouse, who introduced me to a fascinating research program area—thermoelectric cooling/heating technology.

I joined IIT in August 1976 to pursue my Ph.D. in mechanical and aerospace engineering. In December of that year, my research advisor, Dr. Z. Lavan, contacted Mr. Fieldhouse and arranged a part-time job for me at IITRI. My assignment was to “evaluate the promise of thermoelectric (TE) technology for solar-assisted residential heating/cooling.” For the first time, I had the opportunity to learn from him how this new and innovative technology worked and the unique benefits of this technology for specific applications. Fieldhouse, Lavan, and I published a paper for the American Power Conference in March 1977. I never thought, then, that I would spend my entire career developing many novel applications employing TE technology or that I would receive U.S. patents, recognition, and awards for those developments, including two R&D 100 Awards.

After graduating from IIT in 1980, I joined Midwest Research Institute (MRI) in Kansas City. Mrs. M. MRI was initiated to set up a whole new research program area, and I chose TE technology. Very quick, MRI became a world leader in this research area. Federal agencies and private companies signed contracts with MRI to develop new TE products—nearly all of them on a sole-source basis and some with multimillion-dollar funding. A notable example of my research was the development of TE cooling units for NASA space shuttle astronauts who, even today, use the cooling units during the shuttle’s launch and reentry.

I want to take this opportunity to thank back on Irwin Fieldhouse and his share of contributions to my own personal success in my career.

—Bala Mathiprasadh (Ph.D. ME ’80)

Kudos to the Magazine

I want to complement you all on a fantastic production of the fall 2005 issue of IIT Magazine. Not only the content, but also the presentation was superb. Having spent most of my career in and around the graphic arts industry, I appreciate the print quality as well as the editorial content.

I entered IIT in 1942 but did not graduate until 1949 due to my three-year stint with the U.S. Army in World War II. The changes to the campus are mind-boggling.

Keep up the great work.

—Frederich E. Musselin (IE ’49)

PSM Programs Prove a Great Success

A decade ago, IIT introduced what has proved to be one of its most successful graduate academic initiatives—the Professional Science Masters (PSM) programs. IIT currently offers PSM degrees in analytical chemistry, materials and chemical synthesis, health physics, and biology. One of approximately 95 universities nationwide to offer PSMs, IIT has a distinct program in that virtually all its courses are offered entirely online and attract students from throughout the country.

In addition to expanding students’ knowledge of their professional fields, all of the PSM programs contain a professional component. This approach prepares graduates who are not only scientifically literate but also possess analytical and problem-solving skills essential for careers in technically demanding and scientifically sophisticated fields, including law, teaching, clinical laboratory practice, regulatory affairs, and the Armed Forces. Many prestigious Midwest companies support the programs, including Abbott Labs, Baxter, Eli Lilly, Sherwin-Williams, and Procter & Gamble.

The PSM programs have generated an overwhelmingly positive response from graduates, many of whom sought to expand their employment opportunities. Gabe Kirsch, a recent graduate with a master’s degree in materials and chemical synthesis, completed the program while transferring to a new R&D department at Henkel Technologies. “The program broadened my exposure to legal and environmental aspects already existing in my job, as well as introduced me to useful technologies within it,” says Kirsch. “After graduating, I feel much more confident approaching both the theoretical and the practical sides of an industrial chemistry career.”

PSM programs enroll new students on a revolving basis throughout the year, including the summer term. If you are interested in learning more, contact Elizabeth Friedan at 322/56783 or friedane@iit.edu.
The neighborhood that now defines Main Campus is also part of a larger neighborhood called Bronzeville, at one time the largest African-American community from around 1915 to 1930, the heart of Bronzeville was State Street and 35th. From that intersection, stretching north and south along State Street and east and along 35th were more than 100 African-American owned and operated businesses, including banks, insurance companies, hospitals, doctors’ and dentists’ offices, law firms, and many other establishments. This community existed side by side with Armour Institute, one of its precursor institutions, whose original buildings were located along Federal Street, four blocks to the west. At day’s end, nightlife took over, and State Street became “The Street.” Vaudville theaters, movie houses with stage shows, music stores, record dealers and record makers, restaurants, cafes, clubs, and cabarets were the creative home for a virtual “who’s who” of African-American actors, comedians, musicians, and singers. To commemorate the large variety of venues that contributed significantly to the vitality of this area in the early part of the twentieth century, eight historic markers of Chicago’s most famous institutions, whose original buildings were located along Federal Street, four blocks to the west.

### HISTORIC MARKER LOCATIONS

<table>
<thead>
<tr>
<th>Building Name</th>
<th>Address</th>
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<tbody>
<tr>
<td>Armour Institute</td>
<td>3338-3360 South State Street</td>
</tr>
<tr>
<td>Prairie School House</td>
<td>1351 South State Street</td>
</tr>
<tr>
<td>Vendome Theater</td>
<td>1351-1329 South State Street</td>
</tr>
<tr>
<td>Mecca Flats</td>
<td>3550 South State Street</td>
</tr>
<tr>
<td>Bing Bank</td>
<td>3510 and 3512 South State Street</td>
</tr>
<tr>
<td>Gothic Arc</td>
<td>3538 South State Street</td>
</tr>
<tr>
<td>Armour Building, est. 1890</td>
<td>1100 Federal Avenue</td>
</tr>
<tr>
<td>Armour Mission, est. 1919</td>
<td>3145 South State Street</td>
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### New Landscape Architecture Program Takes Root

Beginning fall 2010, IIT—envisioned as a “campus in the park”—will offer the only professional landscape architecture degree program in Chicago, the “city in a garden.”

The new Master in Landscape Architecture program, supported by and funded from the Richard H. Driehaus Foundation, will include courses on:

- the history of landscape architecture and architecture
- the study of materials and infrastructure
- the ecological, botanical, and geological processes behind landscapes
- city and regional planning issues
- alternative modes of urban growth
- sustainability and energy-conscious design

Consistent with IIT’s interprofessional approach, the new program will be closely designed with the existing African-American program and will benefit from several other IIT disciplines, including civil and environmental engineering and technology. The program will also include alliances with related institutions, such as the Chicago Botanic Garden, which is developing a joint sponsorship for the degree curriculum.

The degree’s coursework is framed to reinduce the technical and art of landscape and gardens as forces for environmental and social progress,” says College of Architecture Dean Donna Robertson. “Using Chicago as a laboratory of critical inquiry, students will learn how landscapes and gardens can offer an antidote to the stress-inducing character of urban life, while combating pollution and serving as climate modulators.”

As one of the major initiatives included in the university’s Strategy: Operating Plan, the new program arises out of the recent renaissance of Chicago landscapes, as exemplified by Millennium Park and the revitalization of IIT’s Main Campus neighborhood. The program follows on the heels of a 2005 General Design Award of Honor presented by the American Society of Landscape Architects to landscape architect Peter Lindsay Schaudt for his work on IIT’s Main Campus.

### Winter Commencement

On December 13, 2010, IIT’s Bachelor’s degree and Master’s degree and Ph.D. candidates graduated from IIT. The commencement speaker was M. Zeeshan Hussain, dean emeritus and professor at Stuttgart School of Graduate Business, who spoke about the importance of character in the workplace. The program also featured several other speakers, including the keynote speaker, Daniel Bellman, CEO of Bellman Flats,s and several other dignitaries.

### Grant to Collaborate with Mexico’s Top Private University

IIT’s Stuart Graduate School of Business is one of four universities chosen to participate in a $50 million, eight-year collaborative program between the U.S. government and Mexican educational institutions funded by the U.S. Agency for International Development (IDB), (training, internship, exchange, and scholarship) Program. Stuart received a grant to send up to 20 students to study abroad, including an option to receive dual degrees from each institution. IIT’s Stuart Graduate School of Business was awarded $500,000 in 2005 to strengthen its partnership with Tecnológico de Monterrey (Tel de Monterrey), Mexico’s Top Private University in an effort to provide new opportunities for students to study in Mexico and carry out research projects.

### “At This Latitude” in Chicago

- “At This Latitude,” one of the student exhibitions at Elgin Field House, attracted more than 200 students, as well as President Lee, who watched and cheered as participants tried their hand at building devices. Sponsored by the Biomedical Engineering Society, the event brought together students from different majors who worked on model cars contained in a test car that would land on a basketball-sized plate at a height of 75 feet. Although the degree of success varied widely, students were all smiles and thumbs up—President Lee congratulated the participants for their work and many vowed to hone their competing skills at the 2011 competition.

### Stall Building Improvement

The winning team, the 2nd North Artillery, received the “Efficient Energy Use” award will examine mutual interests in education and joint research opportunities that would benefit the companies and bring mutual benefit. The degree program with Tec de Monterrey and brings significant visibility for IIT to our government and Mexico’s educational institutions. The “Innovation Training for Pollution Reduction and Efficient Energy Use” award will examine mutual development programs in both countries and work with strategic alliances to develop solutions.

This grant provides momentum to our dual-degree program with Tec de Monterrey and brings considerable viability for IIT to our government agencies as well as higher education in Mexico,” says George Nason, director of the Environmental Management Program at Stuart. “We are very pleased to be in a position to assist Mexico in improving its environment in the future.”

The relationship between Stuart and Tec de Monterrey was developed in January 2003. Since then, numerous academic exchange programs have been created that allow students from both universities to study abroad, including an option to receive dual degrees from each institution.

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The Interprofessional Projects (IPRO) program celebrated an
10-year milestone during this academic year. When IIT’s National Commission agreed in
2005 to provide a strong focus on interprofessional learning experiences for undergraduates, the goal was to prepare students better to function as problem solvers in the real world. The resulting IPRO program teaches students how to build a project team and equips them on the
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facultynews

A Voice for IIT

Greg Pulliam, Professor of Professional and Technical Communication, Director of English as a Second Language, Associate Chair of the Department of Humanities, and Faculty Advisor to Tech News

With responsibilities throughout the spectrum of IIT’s communications programs, Greg Pulliam has been helping develop writers and communications at IIT since 1993. The recipient of the 2004 Excellence in Teaching Award, Pulliam worked alongside Glenn Broadhead, director of the technical communication program, to lead the effort to create a new—Journalism of Technology, Science, and Business—which began in the 2005-06 academic year.

What prompted you to develop this new major?

For a number of years, people have been talking about how students graduating from journalism schools don’t know enough about the subjects they’re writing about. By supporting a niche market, we’re teaching journalists who have the skills to write about technology. Our professional and technical communication graduates were already getting jobs in the journalism field—for example, at the Chicago Sun-Times and as a spokesperson for the City of Chicago—so we knew we could shape a program to teach journalism on a broader basis. I don’t know of another program like this in the country.

What will the coursework entail?

We have added new core courses that all journalism students offer and paired those with intensive coursework in math, science, and business. IIT is a perfect laboratory for these students.

Your media experience has been widespread. Could you describe your work outside the classroom?

At M.I. I started working in radio and did that off and on until I moved to Chicago in 1993, in total about 12 years. Then while I was in graduate school, I was an emcee and manager of a comedy club in Columbia, Mo. I also spent one year at both a PBS TV affiliate and an independent commercial TV station in Memphis and played on the road with a cover band for one-and-a-half years, six nights a week.

And now you are added into service at IIT’s commencement ceremonies. How did you become the name reader?

My colleague, Jack Snapper, drafted me about six or seven ceremonies. How did you become the name reader?

I was in graduate school, I was an emcee and manager of a comedy club in Columbia, Mo. I also spent one year at both a PBS TV affiliate and an independent commercial TV station in Memphis and played on the road with a cover band for one-and-a-half years six nights a week.

A member of the Chicago-Kent faculty since 1977, Steinman teaches courses in civil procedure, complex litigation, and appellate courts. She has authored several articles on aspects of appellate jurisdiction, the removal of federal court supplemental jurisdiction, class actions and case consolidations, and other procedural matters. Steinman has ongoing responsibilities with the treatise Federal Practice and Procedure and is a co-author of the forthcoming case book Appelate Courts: Structure, Function, Process, and Personnel (2008) wwwhints.law

This winter, 33 IIT employees were inducted as inaugural members of the Sawyier Society, which recognizes current, former, and retired IIT faculty and staff who have contributed $25,000 or more to the university. The Sawyier Society was established in memory of the late Fay Sawyier, professor emeritus of philosophy, who gave IIT $2 million to help perpetuate the university’s philosophy program.

President Lee Bollinger, Chairman of the Board of Trustees Robert A. Pritzker (IE ’56), Provost Allan Myerson, and Sawyier’s daughter, Terry Strauss, were special guests at the event, which was hosted by Ralph Barnett, professor of mechanical engineering, and Dolores Barnett.

“Faculty and staff in the IIT community care deeply about the university, and the Sawyier Society is a heartfelt thank you to those who contribute not only their time and talent, but also financial resources,” says Betsy Hughes, vice president for institutional advancement. “These wonderful donors and friends expanded their personal and professional influence into countless other important areas at IIT.”


Susan Feinberg, Lewis Department of Humanities

Susan Feinberg will be honored with the annual Jae B. Gould Award for Excellence in Teaching, Technical Communication. The award, presented in May 2006 by the Society for Technical Communication—an IIT member international organization—recognizes sustained excellence in post-secondary education and mentorship in the field. Feinberg is the director of IIT’s Disability Testing and Evaluation Center, which assesses and evaluates various products and systems, thereby leading to improved design and usability.

IIT Philanthropists Honored at Sawyier Society Induction

This winter, 33 IIT employees were inducted as inaugural members of the Sawyier Society, which recognizes current, former, and retired IIT faculty and staff who have contributed $25,000 or more to the university. The Sawyier Society was established in memory of the late Fay Sawyier, professor emeritus of philosophy, who gave IIT $2 million to help perpetuate the university’s philosophy program.

Professor Keith-McIlroy (foreground) accepts a gift in honor of his induction into IIT’s Sawyier Society. Also pictured are [left to right] Terry Strauss, Robert A. Pritzker, and Lee Bollinger.

Darsh Wasan, Department of Chemical and Environmental Engineering

Last December, Darsh Wasan, vice president for international affairs and Motorola Chair Professor of Chemical Engineering, received an honorary professorship from Beijing Institute of Technology (BIT), one of China’s top universities. A BIT chancellor presented the award at a special luncheon at IIT. Wasan has been a member of IIT’s faculty since 2004.

CHICAGO-KENT PROFESSOR EARN NATIONAL HONOR

Joan E. Steinman, Chicago-Kent College of Law Distinguished Professor, was the recipient of the American Association of Appellate Lawyers 2005 Howard B. Eisenberg Prize, which celebrates the publication of high-quality articles in the field of appellate practice and procedure.

Steinman is the second recipient of the prize, which originated in 2005-04. Steinman received the prize for her article, “Inegalities: The Appellate Rights of Persons Who Are Not Full-Fledged Parties,” published in the winter 2005 Georgia Law Review.

“arward helps raise the esteem in which Chicago-Kent and IIT generally are held by other legal scholars, lawyers, parties in the court system, students, prospective faculty members, prospective students, and the public at large,” says Steinman.

A member of the Chicago-Kent faculty since 1977, Steinman teaches courses in civil procedure, complex litigation, and appellate courts. She has authored several articles on aspects of appellate jurisdiction, the removal of cases from state to federal court, supplemental jurisdiction, class actions and case consolidations, and other procedural matters. Steinman has ongoing responsibilities with the treatise Federal Practice and Procedure and is a co-author of the forthcoming case book Appellate Courts: Structure, Function, Process, and Personnel (2008).

PHOTO: J. B. SPECTOR

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WWW.IIT.EDU/DEPARTMENTS/HUMANITIES/UNDERGRAD/RTB.HTML
Pritzker Institute Expands Reach Through New Centers and Facilities

In 2005 two new research centers joined the Medical Imaging Research Center (MIRC) under the umbrella of IIT’s Pritzker Institute of Biomedical Science and Engineering. Formed last spring, the Engineering Center for Diabetes Research and Education (ECBRE) is the first engineering center in the United States dedicated to the treatment and cure of diabetes and arrises at a particularly important time, with diagnoses of diabetes reaching an all-time high. Under the leadership of Director Ali Emrani and Co-director Emmanuel Opara, ECBRE includes IIT faculty members from the biomedical, chemical and environmental, and mechanical, materials, and aerospace engineering departments. Through partnerships with faculty, medical investigators, and clinicians at the University of Chicago and Argonne National Laboratory, ECBRE will focus on the advancement of human health through science and engineering approaches.

The Center for Integrative Neuroscience and Neuroengineering Research (CINNR), inaugurated last October, was created to nurture research in systems and behavioral neuroscience at the University of Chicago and in neural engineering at IIT. Led by Philip Ulmschneider, director, and Vincent Turitto, co-director, the CINNR extends its work from basic science and clinical efforts and stresses an interdisciplinary approach.

“The interaction of engineers from IIT with clinical and basic scientists at the University of Chicago will lead to the better treatment and eventual cure of neurological diseases,” says Turitto, who is also chair of the Department of Biomedical Engineering and director of the Pritzker Institute.

Neuroengineering faculty members now occupy new laboratory space in the Engineering Research Building (ERB), a facility shared with bioengineering faculty as well as researchers working in the new Incubator at University Technology Park. At IIT, the ERB buildings will become a premier environment for the better understanding of disease processes and the advancement of human health through science and engineering approaches.

Xiaoping Qian Receives NSF Grant to Develop 3D Computer Modeling System

Shortly after receiving GE’s New Innovator award in 2004, Xiaoping Qian joined the ranks of IIT as an assistant professor of mechanical, materials, and aerospace engineering. His work at IIT has focused on computer-aided design and manufacturing, and research on a process called “reverse engineering.” He takes an object, scans it, and comes up with a computer-aided design of the object. Currently, manufacturers typically cannot make an exact prototype of a part made by designers, but with reverse engineering, engineers can analyze products more accurately and more reliably before they go to full-scale production, thereby reducing errors and costs.

Although systems with these capabilities do exist, they have a number of limitations. For example, some equipment uses mechanical probes to scan the surface of larger objects, but the process is very slow. Others scan using light, however, light and conditions can affect the accuracy of readings. Qian hopes to create technology that integrates the capabilities of each. The applications of his findings will impact manufacturing industries, including aviation, automotive, and consumer products.

In 2005, in recognition for his work, Qian received an internal award on “Direct Fabrication of Sculptured 3D Microstructures by X-Ray Milling” from IIT’s Educational and Research Initiative Fund, which provides funding to tenure and tenure-track faculty with high-risk or innovative ideas that are expected to result outside funding. Qian then won a $280,000 National Science Foundation grant for his project. In collaboration with researchers from the University of Wisconsin, who were also awarded $152,000 for contributions to this project, Qian will begin work on these 3D computer-modeling systems in May 2006.

Fluid Dynamics Research Center Celebrates 20 Years

The Fluid Dynamics Research Center (FDRC) at IIT was established in 1985 to continue the tradition of innovative research in fluid dynamics begun in the 1960s by professors Mark Morkovin and Andrew Gault. Selected by the Air Force Office of Scientific Research in 1986 as one of three National Centers of Excellence, the center has gained international recognition due to researchers’ use of advanced experimental techniques in areas such as flow control, fluid-structure interaction, turbulence, stability theory, and aerocoustics. The research facilities are equipped with state-of-the-art wind tunnels, an anechoic test chamber, and a number of advanced measurement techniques.

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The center maintains several wind tunnels and water channels, including the National Diagnostics Facility (NDF), a large wind tunnel with very high quality flow. It also provides the AEDF wind tunnel(s).

Currently, Qian is collaborating with researchers at the Universities of Wisconsin and Minnesota, who are developing methods to improve wind tunnel testing for the design of advanced aircraft. Qian and his colleagues have developed a method for improving the accuracy of wind tunnel measurements using high-speed imaging. This method allows researchers to capture the flow field around an object in a single snapshot, which can then be used to calculate the forces acting on the object.

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Much like genetics, nanotechnology poses difficult questions that extend beyond the laboratory and into our daily lives. The first academic organization in the United States leading the nano ethics debate, IIT’s new Center on Nanotechnology and Society is an interdisciplinary collective of faculty, researchers, and thinkers who are weighing the implications of this young but promising technology.

Researchers have their way, someday we will be able to take an elevator to a space station, marking the end of rockets, or detect cells that are in danger of deforming and stop the process before it begins.

What would make it all possible is nano, which is finding its way increasingly into our lives. Nanotechnology is the manipulation and manufacturing of materials at the molecular or atomic level. A nanometer—"nanos" in Greek means "dwarf"—is as small as it gets; one billionth of a meter. Eighty thousand nanos equal the width of a human hair. One hundred thousand are the depth of this sheet of paper.

Some have hailed nanotechnology as the next Industrial Revolution. And while it has already been instrumental in developing dozens of products as diverse as dental-bonding agents and car bumpers [see sidebar, above right]—and holds the promise of giving us clean energy, better disease diagnosis and treatment, improved power transmission, and products that are lighter and stronger—there is more to address than engineering and scientific challenges. Nanotechnology brings with it a host of ethical and societal implications, making the subject one of today’s most controversial interdisciplinary topics.

M. Ellen Mitchell, director of IIT’s Institute of Psychology, says attention to the new technology’s scientific promise has been accompanied by substantive discussion about personal, social, economic, and legal impacts. Individual issues, she says, merge into societal issues; health issues mingle with consumer concerns, and these areas become inextricably intertwined.

The discussions surrounding nano are similar to ones that stemmed from the Human Genome Project, the first large-scale scientific initiative to address ethical, legal, and social implications arising from the potential manipulation of genes. But beyond the ethical considerations are very real physiological ones. Certain substances that are safe in larger quantities assume toxic characteristics at the nano level. There is concern that, because they are so small, nanoparticles can move through the body at will, evading barriers that stop larger particles. Comparisons are being made with asbestos, at one time considered a “miracle mineral” until it was discovered that asbestos posed a health risk.

Taking a cue from the past—including the doomed efforts to bring genetically modified food into Europe, which raised public anxiety about safety issues and the “futuristic flavor of technology”—experts have realized the importance of engaging professionals and the public much earlier in the process.

<table>
<thead>
<tr>
<th>Products Containing Nanoparticles</th>
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<tbody>
<tr>
<td>▪ Shop assistants on vans</td>
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<tr>
<td>▪ Car bumpers</td>
</tr>
<tr>
<td>▪ Paints and coatings to protect against corrosion, scratches, and radiation</td>
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<tr>
<td>▪ Protective and glare-reducing coatings for eyeglasses and cars</td>
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<tr>
<td>▪ Metal-cutting tools</td>
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<tr>
<td>▪ Sunscreens</td>
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<tr>
<td>▪ Longer-lasting tennis balls</td>
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<td>▪ Light-weight, stronger tennis racquets</td>
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<td>▪ Skin-free clothing and mattresses</td>
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<tr>
<td>▪ Dental-bonding agents</td>
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<tr>
<td>▪ Burn and wound dressings</td>
</tr>
<tr>
<td>▪ Ink</td>
</tr>
<tr>
<td>▪ Catalytic converters</td>
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</tbody>
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Source: National Nanotechnology Initiative
Catalyzing discussions about the implications of nanotechnology is the work of Dr. M. S. Cameron, associate dean and research professor of bioethics at Chicago-Kent College of Law. Cameron is director of Chicago-Kent’s Center on Nanotechnology and Society (Nano & Society), created in 2005 with a $300,000 congressional earmark. It speaks to the importance of this burgeoning, but still largely untested, field.

“The ethical issues are tremendous,” Cameron says. “What does it mean for us, for people, for those who value our common humanity who want medicine to cure disease and restore function? The ethics of the ‘bottom line’—the cost of commodities in our bodies and brains? What does this mean for those who are aware of the final technological paradox, that the more power we attain to determine our own design?”

“And, of course, while we revel in every new power we give to our own design, technologies in fact give some people power over other people, with ‘nature’ as an instrument.”

Nano & Society was created as a subset of the Institute on Biotechnology and the Human Future (IBHF), a project initiated by Cameron and Chicago-Kent Distinguished Professor of Law Lori Andrews in 2004 to assess the societal and scientific benefits and risks of new nanotechnology developments.

In its efforts to advance discussion, Nano & Society promotes two key initiatives and national events, such as the recent informal biannual IIT Nano Colloquium, a more formal interuniversity roundtable. The database will be available to researchers and the general public. Well hopes to have something online by September.

Meanwhile, the legal issues of the new technology are also being discussed. Professor Andrews has been awarded a $300,000 National Forum, a formal event that is webcast and open to the public. The other is the Nano Colloquium, a more informal biannual roundtable. The thread running through both initiatives is ethics, which makes the IIT approach unique. There are fewer than 100 American universities paying dedicated attention to nanotechnology and none of the others, according to Cameron, is focused on ethics. Ahead of the National Science Foundation (NSF) own key project, “IIT created the first university-based center on nano and society,” he says. “We are on the frontier of the ethics debates.”

Professor Vivian Weil focuses on nothing else but ethics.

“As of yet, we know very little about toxic properties of nanotechnology products,” she says, “unsurprising, for instance—it’s the nano compounds that block the sun. But what do these nano compounds do to us? They have not been well tested as far as we know. Are sunscreen nano compounds absorbed by the skin? What are the short- and long-term effects? What effect do disrupted birds and tube have on disposed sites? Government reports are unlikely. We’ll see, since sunscreens are classified as cosmetics and therefore do not fall under the Food and Drug Administration (FDA) jurisdiction.

Another example of an ethical issue is the impact on the workforce. Radically new technologies are disrupting. New manufacturing processes mean that new workers with new skills enter the workforce and formally valuable workers are no longer needed. Weil says it is essential to look ahead to prevent, mitigate, or compensate for harms to current workers, and that discussions should consider which workers get the benefits and which workers bear the burdens of change among those that burdens and benefits are not unfairly distributed.

Weil, who was recently named to the advisory board of The Nanoscale Group, a non-partisan independent research organization, is currently working with a grant from the NSF to develop a NanoscaleBank. The database will consist of codes of ethics, company policies, precautionary principles, and applicable articles as well as reports on topics such as toxicity. The online database will be available to researchers and the general public. Weil hopes to have something online by September.

“While research and development continues, technologies in fact give some people power over other people, with ‘nature’ as an instrument.”

Nigel M. de S. Cameron, director of the center on Nano & Society, is associate dean in the graduate college and professor of biological, chemical, and physical sciences.

Nano & Society: Connecting the Disciplines

The core membership of the Center on Nanotechnology and Society consists of experts both within and outside of IIT who participate include

- Nigel M. de S. Cameron, director of the center and president of the Institute on Biotechnology and the Human Future
- Ruthanna Gordon, assistant professor, Institute of Psychology
- Michelle Medek, associate director and legal fellow of the center, and executive director and legal fellow of the Institute on Biotechnology and the Human Future
- M. Ellen Mitchell, senior fellow of the center and director of the Institute of Psychology
- Jay Schaefer, professor of chemical engineering and director of the Center of Excellence in Polymer Science and Engineering
- Ullica Sengupta, senior fellow of the center, professor of sociology, and chair of the Department of Social Sciences
- Carlos Segre, associate dean in the Graduate College and professor of physics
- Vivian Weil, director, Center for the Study of Ethics in the Professions
- John Zasadzinski, professor and chair of the Department of Biological, Chemical, and Physical Sciences

Moving Atoms: Then and Now

In 1992, students at the Institute of Design developed an entry for an international competition on the future of plastics. Called “Nanoplastics: A Home System,” it demonstrated how nanoplastics could make home appliances more functional. A paper thin film read and motion, could cause a revolution in home design. Details of the students’ award-winning Home of the Future can be found at www.id.illinois.edu/profile/gallery/nanoplastics.
**A SMALL WORLD**

From fuel cells to nanotechnology, Professor Dimitri Gidaspow has built a distinguished career through innovative work at the particle level

**A High Water Mark**

According to Gidaspow, his greatest career milestone came in 1989 at the Heat Transfer Conference, where he received the Donald O. Kern Award in Fluidization for his groundbreaking work on the hydrodynamics of fluidization and heat transfer. The award was the culmination of years of research and development, and it not only recognized Gidaspow's contributions to the field but also opened the doors to new opportunities and collaborations. It was a moment of personal vindication and professional validation, and it propelled Gidaspow to the forefront of his field, solidifying his reputation as a leading expert in fluidization technology.

**”I think we created a new science.”**

—Dimitri Gidaspow
IIT’s New Research Park
AT THE CROSSROADS
of South Side REVITALIZATION

Renderings courtesy of Cannon Design     Photos: J. B. Spector

NEW Horizon ON THE South SIDE

The corner of 35th and State streets at the southeast tip of IIT’s Main Campus is the locus for observing the future of Chicago’s Mid-South Side. With a 360-degree view of new construction and further development approved, activity at this intersection is signaling a neighborhood on the brink of a new era.
Central to this growth is a University Technology Park at IIT (UTP), comprised of six pre-existing IIT buildings and three proposed new facilities. IIT’s newest contribution to the transformation of the South Side, UTP will provide science and technology companies with economically priced laboratory space, including “incubator” facilities, which are critical to the growth of many start-up ventures. When the project is complete, UTP will boast 1.5 million square feet of rentable space. Although the research park will provide university-wide opportunities, UTP’s benefits will extend well beyond IIT.

“When completed in 10 years, this will be huge,” says David Baker, vice president of external affairs at IIT and interim executive director of UTP, who, along with Dan Manselle (CHE ’78), associate director of technology and business services at UTP, is overseeing the project. “This is an unparalleled opportunity to make an indelible mark on the growth of this part of the city.”

Laying the Groundwork

The largest investment in the area since the 1994 opening of nearby U.S. Cellular Field, UTP is, by design, being built to foster an active mission of science, commerce, and community. Its promise includes access to jobs and internships at UIT for IIT students and close proximity to company counseling. Opportunities for IIT faculty-UTP clients will be able to take advantage of a number of IIT resources, including use of laboratory equipment, conference facilities, and library and reference facilities, as well as an affiliation with a research university. The surrounding neighborhood will experience an influx of investment in the form of 2,500 job opportunities that UTP is estimated to generate over the next 10 years. UTP will join Chicago Technology Park, herebefore the only site for the development of biotechnology companies in the region, in promoting the growth and expansion of the life sciences industry in Chicago.

In an ongoing effort to enhance the Mid-South, the City of Chicago moved the Chicago Police Department headquarters to the corner of 35th Street and Michigan Avenue in 2003. At the same time, the city and the Chicago Housing Authority reached the critical decision to dismantle the failed public housing structures just south of Main Campus. Baker says those changes helped to lay the groundwork for UTP.

“If you had asked anybody in 1990 whether we could attract technology start-ups to 35th and State, they would have laughed at you, because in 2000, other than the new police headquarters being under construction, there was no indication of how quickly this neighborhood was going to change. Also in 1990, all the buildings that are part of UTP were owned by IIT Research Institute [IITRI], and the university had no interest in acquiring them,” says Baker. The 2002 spin-off of most of IITRI into Aliion Science and Technology led to the university gaining control of the future UTP buildings.

Now, market demand is working in tandem with reinvestment in the area to drive the development of UTP. “The incubator at Chicago Technology Park has been filled for years, and companies were being turned away. As companies have outgrown those facilities, it has been very hard for them to create their next space. A lot of them have left the state,” says Baker, adding that UTP will also provide a potential new home for University of Chicago’s companies and research endeavors, further enhancing the relationship between IIT and U of C.

To meet this need, UTP is being developed in three phases. Phase I includes the creation of a 30,000-square-foot incubator in the former Engineering Research Building—originally designed by Mies van der Rohe—so located with the research laboratories of IIT’s biomedical and chemical engineering facilities. The first 10,000 square feet of incubator space, funded by the State of Illinois, includes room for four companies. The facility features wet and dry labs with adjoining, customizable office spaces and is equipped for clients to add portable natural gas, compressed air, and vacuum systems.

“IT doesn’t stop with the physical needs,” says Vice Provost and Director of the Institute of Business and Interprofessional Studies Dennis Rehbohm, who has been involved with incubator facilities in South Carolina, Illinois, Malaysia, and Singapore. “Companies that don’t go to an incubator will experience a significant investment of time and money to get their business started. There are a whole set of needs that any new business has—business (including accounting, business plan development, financial planning, human resources, taxes, and payroll), legal (including patent filing and other intellectual property support), company formation, contract support, environmental issues, and mergers and acquisition counsel, and technical consulting and support. Incubator resources can provide all sorts of advice to help fledgling companies jump-start their businesses.”

Phase I also includes Technology Business Center 1, previously called the Chemical Research Building, a $50 million, state-of-the-art, build-to-suit facility for companies needing 3000–15000 square feet of space. IIT engaged Wexford Science and Technology, LLC, a private developer with strong expertise in research park development, as its partner on the project. Wexford acquired the building from the university and used private-sector financing strategies, city and federal incentives, as well as private equity and debt financing to fund the construction. Work on this facility began in January. The building will be ready for tenant occupancy in summer 2006. Also part of this phase, IITRI Center, now home of IIT Research Institute Life Sciences Group, just completed a $20 million expansion.

In addition, software and information technology companies are now locating in IIT Tower, where affordable space goes hand-in-hand with the availability of skilled IIT computer science students.

Subsequent phases will include renovation of other existing buildings in UTP and expansion to the parking lots on the east side of State Street, once a new parking garage is built.

Enriching the Client Experience

Two clients taking early advantage of UTP are Said Al-Hallaj and Dr. Robert Selman, professors in IIT’s chemical and environmental engineering department. In 2001, Al-Hallaj and Selman formed Alion Sciences, LLC, to develop and commercialize lithium-ion batteries for portable power and electric vehicle applications. Last year, Al-Hallaj and some of his students launched Sun Pharmaceutics Technologies, LLC, a company that is working to develop and commercialize solar powered windows for use in generating electricity for office buildings. All Cells and Sun Pharmaceutics moved into a new laboratory space in the Incubator in February and began operating there in March.

“Universities tend to have a bad reputation for dealing with commerce and business, they tend to be conservative, sometimes slow, and generally unenthusiastic about entrepreneurship,” says Al-Hallaj. “But by creating UTP IIT is saying that it means business and has the infrastructure.”

Al-Hallaj says that his company’s affiliation with UTP is already starting to pay off. “With All Cell, we approached the City of Chicago about working on a Plug-in version of the hybrid Ford Escape. Our affiliation with UTP gave us a lot of credibility. If I had gone to the city on my own, I don’t think I would have received the same response.”

While UTP is largely being marketed to and suited for biomedical engineering and life-sciences companies, another client, a digital data storage start-up called Cleversafe, is growing steadily thanks in part to a talented workforce: IIT students.

Chris Gladwin, Cleversafe’s founder and CEO, says he moved his company into 35th State and began hiring IIT students last winter. It started with one part-time student, then two, and now 15 current or recently graduated IIT computer science and design majors are among his 22 employees. Gladwin says that compared to employees with backgrounds in one area of expertise, students have proven to be more creative and adaptable. “This is my third major start-up; at the previous two, I hired people who had 20 or 30 years of experience and the students were doing the best work.”

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The six pre-existing buildings that are part of University Technology Park at IIT have had numerous purposes (and names) since they first arrived on Main Campus.

UTP Facilities: THEN AND NOW

Then: Mechanical Engineering Research Building
Also known as: Mechanical and Electrical Engineering Research Building, recently Life Sciences Research Building
Address: 35 West 34th Street
Constructed: southern portion in 1952, northern portion in 1961
Architect: Mies van der Rohe (southern), Schmidt, Garden, and Erikson (northern)
Now: IITR Center

Then: Institute of Gas Technology Complex (Central and South Buildings)
Also known as: South Building, IITRI Physics and Electrical Engineering Research Building (PER Building), and previously, the Armour Research Foundation PER
Address: comprised of several buildings at 3424 South State Street (two of which will be part of UTP)
Constructed: Central, 1964-45; South, 1955
Architects: Schmidt, Garden, and Erikson (Central), Mies van der Rohe (South)
Now: 3424 Central and 3424 South

The South Building once housed the UNIVersal Automatic Computer (Univac) (1105) as well as the first industrial nuclear reactor in the United States (it was dismantled in 1977-78).

Then: Technology Business Center 1

Then: Chemistry Research Building
Address: 3440 South Dearborn
Constructed: 1961
Architect: Schmidt, Garden, and Erikson
Now: Technology Business Center 1

Then: IITR Tower
Address: 10 West 35th Street
Constructed: 1963-64
Architect: Schmidt, Garden, and Erikson
Now: The Tower

An underground tunnel connects the Tower to the Chemistry Research Building.

of experience,” says Gladwin. “IIT students are better for the work we do: it’s technology-driven, but creative. It’s better suited for smarter, creative people, and these students have what we’re looking for.”

Cleverlake is benefiting from IIT students in other ways. In March, as part of a contest run by the College of Architecture, two architecture students were selected to design Cleverlake’s new office in the Tower, to where the company will expand this summer. Another student won the rights to be project manager: “That sort of thing would not happen if we weren’t at IIT,” Gladwin says. “I’ll have access to brilliant architects, and I have a great story to tell my clients about why my company is interesting And because we’re on a campus at a major research university, we have a lot more credibility.”

Creating a Win-win-win Situation

At the outset of IIT’s 1906 Master Plan, created by Truester Dank Lowen as part of the National Commission for IIT, the south end of campus was designated for future commercial development. In 2003, President Lew Colton saw an opportunity for an on-campus technology park to give faculty the chance to be more entrepreneurial and to form new companies of their own.

With UTP able to leverage existing buildings on campus, the campaign for UTP began in October 2005, the City of Chicago, at IIT’s request, created a Tax Increment Financing (TIF) district on the south end of campus. This designation enabled Wexford to receive $138 million in tax increment financing, allowing it to renovate the building and still charge affordable rents to technology companies.

The UTP construction timeline now concides with the creation of IIT’s 2010 Plan—the set of university priorities that will capitalize on IIT’s strengths in research and academics into the next decade. The university has identified its science, energy and sustainability, entrepreneurship, and its continued Interprofessional Projects (IPRO) program as key priorities.

Roberson says that UTP will play well with the initiatives included in the 2010 Plan. As UP evokes, company employees could propose IPRO projects and offer the participants appropriate feedback, and students could provide companies with reasonably priced market research, accounting services, and other business assistance—thereby enriching the students’ own entrepreneurial experience.

“Since UP expects to house companies from a variety of areas, it will have very positive impact across IIT. The opportunity for students to engage with firms right on campus is wonderful, and faculty members have the opportunity to be on advisory boards for companies and to act as part-time consultants,” says Roberson, who will serve on the board of Cleverlake. “The companies can get experienced people to help support them, while faculty have the opportunity to delve into the real-world challenges associated with the areas they’re interested in, all in the context of an entrepreneurial business environment. It’s a terrific win-win-win situation.”

If UTP is as successful as other university-affiliated research parks, its benefits could extend well beyond the immediate community. Research parks have had a transformative effect on their local economies. Stanford University’s research park, and more recently, Research Triangle Park—a collaboration between Duke University, North Carolina State University, and University of North Carolina-Chapel Hill—are two such examples.

Market demand is working in tandem with reinvestment in the area to drive the development of UTP.

“Our is a more modest goal focused on trying to create economic growth to complement the residential and commercial activity here now,” says Baker. He cautions that while attracting occupants to a park of this size always presents a risk, ultimately, IIT’s ownership of UTP is a distinguishing factor when compared to other technology parks within the Chicago area, including Illinois Science + Technology Park in Skokie, which opened in 2005.

“Says Roberson, “It’s synergistic: as UTP becomes more successful, it will contribute to the surrounding environment, which will in turn contribute to UTP’s success. It’s a virtuous cycle.”

www.untiervirtual.technologypark.com
Today, the study in his home looks just as one might expect: numerous achievements and degrees decorate the walls; memorabilia of students, faculty, and friends placed throughout, and files storing annual reports and newspaper clippings chronicle his time in office.

One thing stands out, though—there is no computer. A pioneer from a technical university, and he doesn’t even own a computer. But for John Theodore Rettaliata, not needing a computer is somehow fitting.

He led IIT for more than 20 years, oversaw the construction of a new campus center, and helped bring IIT to national prominence through an innovative approach to education. Many of his administration as one of the highest points for the university, and his fundraising efforts solidified a school otherwise struggling under its own financial weight.

Most current IIT students, staff, and faculty have never met Rettaliata, and some may have never heard his name. In fact, Rettaliata had been back to IIT since his resignation in 1973. Why would a former IIT student have an influential figure in IIT history stay away for so long?

“I visited other schools while on accreditation boards, and some of them would have the former president there on campus in an office. The faculty would call and tell the former president what the new guy wasn’t doing right,” Rettaliata says. “I wanted to let the new guy do his job.”

Now 94, Rettaliata reflects on the accomplishments of his professional career, whether as an engineer, educator, or executive. Before coming to IIT, he worked for Alcoa-Chalmers, a leading manufacturing company in the Midwest. During World War II, he embarked on the first of many roles for the United States government, serving part of the time in British aerodynamic research facilities that enabled America to develop a better jet engine.

The building of Main Campus and his relationship with Mies, the architect of Main Campus, provided many interesting moments.

“One day,” he says, “Mies came into my office and said he wanted to build a building that had never been built before, or at least that he had never built before. The building would be supported all by its roof, and there would be no columns under the roof to support the weight.” Rettaliata went out, as he put it, “to ring some doorbells,” and soon had the necessary $100,000 to begin work. Henry Crown donated $100,000 that he had gotten from his stock in Crown Hall.

In one of the more tender moments in the Rettaliata/Mies relationship, at the dedication of Crown Hall, Mies gave Rettaliata a Gold Key to Crown Hall. The key which now sits in a case hanging over his desk at home, was a sign of gratitude Rettaliata received from Mies, a man he describes as “a good man, a modest man,” who was quiet and private and hated giving speeches.

Rettaliata’s influence has stayed with Jischke. “I was dazzled by his fundraising. One of the most memorable meetings was shortly after he had returned from a fundraising trip on the West Coast,” he recalls. He says Rettaliata’s efforts to ensure a balanced budget and strong physical plant have greatly influenced his work at Purdue and other schools. A student group called Iron Key has served the Purdue community for many decades in much the same way as the Black Knights provided IIT students a direct line to the president.

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Snapshots:

While keeping a love of sports in their hearts, IIT student-athletes are leading multifaceted lives and representing the best of IIT. For many IIT student-athletes—also known to fans as Scarlet Hawks—commitments extend well beyond academia and sports. They juggle work, community service, IPROs, Camras scholarship responsibilities, and life in a foreign country—any of which can amount to a full-time job outside of school.

Marina Hartung (BA ’07)
Hometown: Manhattan, Kan. • Sport: Swim team (captain, swim breaststroke)
Stats: President, Kappa Phi Delta; manager, IIT Phonathon; Kaplan Fellow; lifeguard
About her sorority: “IIT is mostly males, so it’s great to have a group of gals to interact with and do girl things.” As for wild nightlife often associated with Greek life, she laughs. “We’re all usually too tired and just go to bed!”

Polina Ivanova (ITM ’07)
Hometown: Pernik, Bulgaria • Sport: Basketball (small forward)
Stats: International student and member of IPRO 303
About her IPRO: “We’re researching technical communication devices that could help the investment company Calamos get to know its private customer group better.”

Kaitlin Streyle (ARCH ’08)
Hometown: Mandan, S.D. • Sport: Cross-country (She was also a 2006 end-of-season player on the women’s basketball team.)
Stats: Camras scholar
About being a Camras scholar: “It was the deciding factor in me attending IIT.”

Zack Hartnett (BA ’07)
Hometown: San Diego, Calif. • Sport: Soccer (captain, plays center defense)
Stats: NROTC Marine, student ambassador, Pi Kappa Phi fraternity, door guard
About being a Marine: “It’s part full-time job, part hobby. I like to think that if I weren’t in the military, I’d still get up at 4 or 5 a.m. to train like this.”

Pedro Lima (BA ’07)
Hometown: Rio de Janeiro, Brazil • Sport: Soccer (midfielder)
Stats: International student, works at the front desk at Keating Sports Center, referees for IIT intramural soccer
About studying business: “Business is a lot like soccer. It’s all about learning to take risks.”

The Off-the-court Lives of IIT Student-athletes

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Making Newspapers into Art

Most of us take newspaper design for granted: the main news sections, sports, business, travel, fashion, entertainment, each with its own look and feel. But it wasn’t always so, and for creating and designing many parts of the modern American newspaper, we can give credit to Louis Silberstein (M.S. DSGN ’49).

One of the first generation of Institute of Design graduate students, Silberstein enrolled on the GI Bill in 1941, two years before the school joined IIT. With his BFA from the Pratt Institute in New York, attending ID was his long-dreamed of educational capstone. “Studying at ID gave me incredible confidence in myself as a contemporary graphic designer,” he explains. “I had almost wanted to be ‘good,’ and I had always had ambitions, so I couldn’t tell you how important it was to get to ‘the New Bauhaus.’ The idea of it was like a dream—getting there changed me.” He recalls sitting in his first job interview after graduation and noticing one of his ID professor’s books (Gyorgy Kepes’s Language of Vision) on the interviewer’s shelf. It turned out to be one of the man’s favorites. Silberstein got the job.

Just a few years later, Silberstein became, at age 31, the youngest art director of the promotions department of the New York Times Company. In his first year there, the department won 19 of the 50 awards given by the American Institute of Graphic Arts, and Silberstein received the well-known “I got my job through the New York Times” posters that ran for 20 years on subways and train platforms around the city.

In 1960 with his promotion to corporate art director at the Times, Silberstein vision began to be realized on a large scale. From then until his retirement in 1985, he conceptualized the weekly special sections that we still see today in major dailies around the world: Weekend, Home, Living, Science Times, Sports Monday, and even, together with the paper’s editors, the world’s first Op-Ed page.

“Television at this time was getting big,” Silberstein recalls, “and our readership was changing, from men and business to women, kids, and the suburbs. The editors consulted me on a lot of these new things. They even used to joke that the publisher [Arthur Sulzberger] used to sneak down to my office for strategy meetings instead.” Indeed, Silberstein is widely credited with increasing the role of the art department in newspapers around the country, moving it from being merely an aspect of production to a key part of editorial direction. Symbolizing this shift, in 1975 he was appointed assistant managing editor of the Times, becoming the first person ever promoted from the art department to the editorial staff.

Now retired and living in Brooklyn, Silberstein remains active in publishing. He has been a consulting designer for Earth Times (www.earthtimes.org) and executive editor of Conference News (www.conferencenews.com), which is published on-site at the United Nations and at major international conferences.

Iro Ruther
PhD ’60, Honolulu, is a political science professor at University of Hawaii at Manoa.

Richard Choudhri
PhD ’62, Honolulu, is a political science professor at University of Hawaii at Manoa.

Roy Coleman
PhD ’64, Chicago, has retired after working for nearly 41 years at AT&T Park High School as a physics teacher. During his tenure he spearheaded careers that included physics teachers and astronaut Mae Jemison, the first African-American woman to enter space.

Martin C. Jähcke
PhD ’69, West Lafayette, Ill., was recently featured in the Indianapolis Business Journal for his accomplishments as president of Purdue University.

Bhuvnesh S. Subbokrishna
M.S. ’64, West Lafayette, Ill., was named the 2005 Volunteer of the Year by the New Trail Democratic Organization.

M A R K E T J O U R N A L

For a complete list of abbreviations for IIT’s academic majors, visit www.iit.edu/magazine.

Electronic Awards for contributions to the development of the vestigial section (VSB) digital transmission system for digital television broadcasting.

Richard W. Cost
EE ’58, Okla. City, Okla., was a co-recipient of the 2006 IEEE Marconi Society Communications Award.

Edward L. Erickson
MATH ’68, Pipersville, Pa., has been appointed to Barter Therapeutics’ board of directors.

Thomas E. Hirsch, AIA
ARCH ’68, Madison, Wis., is a Wisconsin-registered architect and land use planner. He is currently self-employed, performing site and building evaluations for accessibility, capital needs, site segregation, and design of residential structures.

Paul Morel
CE ’68, Smithfield, Pa., has promoted to the position of vice president, safety and regulatory compliance for U.S. Airways.

The Honorable Russell B. Nakorchuk
MAST ’69, Gainesville, Fla., has recently moved with his wife to Gainesville and has been accepted as a graduate student to pursue a Ph.D. in linguistics after retiring from a 30-plus year career in data processing.

Jodynda S. Parrish
S.M. ’11, Flagstaff, Ariz., is currently located in Munich, Germany as president of Compliance Solutions International Management Consulting Firm. Previously she spent 26 years at Underwriters Laboratories, Inc. in Northbrook, Ill.

Share Your News!
We want to know what’s new with you. Send us your class note update—news about births, marriages, career changes, and other events in your life. We’ll publish your news on the alumni website and in a future issue of IIT Magazine.

Sharing is easy. Send your class note update, write to alumni@iit.edu or alumni@iit.edu, or visit www.iit.edu/alumni and click on “Class Notes.” [under “Alumni Community”]
Quam (Boladale) Erogbo

IT in 2004, and another cousin currently in his first year. And I met my wife (Alissa Moore; CHE ’97) at IT; she’s now doing her obstetrics and gynecology residency in Chicago.

In what ways have you worked with IT students since graduating?

A few years ago I participated in IT’s Lunch with an Alumni series, which gave me an opportunity to share with students the type of work I do today. I have also organized Shadow a Motorolaian day, in which IT students come to our company and are paired up with engineers and business people to learn more about their specific jobs. I’ve brought graduate and undergraduate students to Motorola University to expose them to the company. Finally, I am working with IT’s multicultural office to promote events and networking, and with IT Alumni Relations on a possible GOLD alumni evening at Motorola.

What do you find most rewarding about your job?

In addition to the work I do with IT, I speak on career development and serve as a mentor. I’m a member of two Motorola Diversity Business Councils and co-chair of the Black Business Council Education and Community Partnership Committee. We go out to the community and form alliances with different organizations. Along with promoting Motorola and helping make the company visible in the community, it’s also a great way for me to mentor students and youth organizations.

My experience allows me to give back in other ways, as well. For example, I recently participated on an engineering steering committee for a local YMCA that organized a series of educational and interactive workshops for black and Hispanic high school students interested in science.

What’s your favorite new gadget?

We recently delivered a mobile phone to a customer called RAZR VTC. It supports video broadband access to allow people to access entertainment-on-demand on their phones. The coolest part about it is the design—it’s so thin you can put it in your pocket.

What’s the next thing to watch out for, technology-wise?

I think you will see a lot more music and video-streaming applications on phones to take advantage of higher bandwidth communication speeds. The content is already so rich that some folks are calling it “the device formerly known as the cell phone.” We definitely have some exciting times ahead.

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It’s a long way from Nigeria to Chicago. How did you end up at IIT?

You could definitely say it’s a family affair. My uncle, Lamam Erogbo, graduated from IIT in 1974, then returned to Nigeria to work as a chemical engineer. I came to the United States after high school with some of my friends, and four of us attended IIT. I have one cousin who graduated from IIT in 2004, and another cousin currently in his first year. And I met my wife (Alissa Moore; CHE ’97) at IT; she’s now doing her obstetrics and gynecology residency in Chicago.

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The IIT Alumni Association is proud to honor the winners of the 2006 Alumni Awards for their outstanding contributions to the university, the community, or their profession.

Alumni Award

The Alumni Award is awarded annually to an individual who has demonstrated an exceptional commitment to society through service and support and who has achieved significant personal and professional success.

Jamsyrd Godrej

Jamsyrd Godrej is chair of Godrej and Boyce Manufacturing Company, one of the largest engineering and consumer products companies in India. With a total sales turnover of approximately $3 billion, Godrej has received substantial honors and recognition for his company's extensive environmental efforts. Godrej was recently appointed Chief of the Indian Institute of Technology's Alumni Association in India from 2007 to 2002 and hosted a banquet for the Indian Alumni Association in Bangalore in 2002. He is also a founding member of IIT's Board of Trustees.

Alumni Service Award

The Service Award is given to an individual who has demonstrated selfless commitment to the university through exceptional contributions in the areas of leadership, service, and support.

Keith McKe (CE ’20, M.S. ’56, Ph.D. ’62)

Husain Nagji (M.AE ’68, M.S. ’69, Ph.D. ’72)

Alumni Award of Merit

Presented annually to an individual who has made an outstanding contribution to the university.

Geoffrey Fear (M.S. ’91)

Ed Flom (CHE ’54)

International Award of Merit

Presented annually to individuals who have made an outstanding contribution to the university's international initiatives.

Prachee Panthamreddi (M.S. IE ’75, Ph.D. ’79)

Raj Jyaprasad (FPSE ’51)

Lifetime Achievement Award

Awarded in memoriam to an individual who achieved personal success, made an outstanding contribution to his/her chosen field of endeavor, and who achieved recognition among his/her colleagues.

James Freid (ARCH ’53)

James Howren (M.S. ’77)

Amir Harvey (CHE ’99)

Jenna McGrath (ME ’99)

Professional Achievement Award

Awarded this award pays special tribute to alumni who have achieved personal success and made outstanding contributions to their chosen fields, and who are widely recognized and lauded by their colleagues.

Jimmy Akintunde (ARCH ’95)

Sharwin Auran (CE ’44)

William Bemore (M.S. ’92)

Janis Stih (M.A. ’83, MAS ’87, Ph.D. ’98)

Claire A. Cimino (EE ’04, M.S. ’16, Ph.D. ’19)

Mark your calendars. Save the date!

The 2006 Alumnifest, a weekend of alumni reunions and celebration for the IIT community, will take place at IIT’s Main Campus on October 6–8. Classes ending in 1 and 6 will be celebrating milestone reunions.

Everyone is welcome to attend Alumnifest 2006, which will coincide with IIT’s homecoming weekend. Visit www.iit.edu/alumni for more details as they become available.

For more information about the Alumni Awards and recipients, visit www.iit.edu/alumni. (under “Alumni Community”)

CLASS Scribes WANTED!

A great way to get involved with IIT is to be a class scribe. Class scribes help IIT and their graduating class to stay connected by sharing news about fellow classmates with one another and with the rest of the university. To sign up to be a class scribe, or to learn more, contact Marian Quirk at quirkm@iit.edu.

Lucille S. Hynes

EE ’98, Naperville, Ill., was recently promoted to distribution manager of the Department of Public Utilities–Electric.

Carl R. Smith

M.S. BA ’98, Cary, Ill., was appointed vice president of engineering and manufacturing at Northern Gruman Corporation.

Ashokkumar P. Patel

M.S. CE ’70, Round Lake, Ill., was recently promoted to Engineer IV at the Cook County Highway Department. He will be working at the Permit Division of the Highway Department. Prior to this assignment, he worked at the Transportation Planning and Programming Bureau for more than 10 years.

George Schotte

AACT ’92, Washington, D.C., was recently appointed chief financial officer of the Peace Corps. He and his wife, Susan, live in Washington, D.C., with their 1-year-old daughter, Ava. Prior to the Peace Corps, Schotte served in the United States Marine Corps until he received an honorable discharge with the rank of major.

Jens Silh

LAW ’92, Louisville, Colo., was hired as an associate at Furman Kerns and Bauer, LLC.

Catherine A. O’Connor

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Stella Symanides

AE ’94, Chicago, was married in 2005, and is expecting his first son in April 2006.

Thomas A. Miller

LAW ’95, Lakewood, Ill., was recently promoted to the positions of managing research scientist at Argonne National Laboratory Clack Relocation District.

Nathan A. Ballou, U.S.N.

He was promoted in January 2006 to an executive commander, and he and his wife, Beth, recently celebrated the first birthday of their third child, Nathan IV.

Nicole A. Biskop

CHE ’96, Chicago, has been in private pedestrian practice for a few years. She recently opened her own pedestrian practice in Franklin Park.

Patrick Fink

M.B.A. PIN ’97, Whifield, Ill., is named chief executive officer of Broadspire, a Platinum sponsor.

Jeremy R. Lewis

SAMM ’95, Sunnyvale, Ky., is currently preparing to deploy to Iraq to serve as an advisor/trainer to the Iraqi Army. This will be his second tour in Iraq.

Elaine C. Peno

CHE ’94, Chicago, gave birth to a daughter, Gabrielle Elaine, on November 22, 2005.

Amir Harvey (CHE ’99)

Jenna McGrath (ME ’99)

James Freid (ARCH ’53)

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ITI Loses Two Trustees

ITI mourns the recent loss of trustees Robert Janowiak and Charles Shaw.

Robert Janowiak (M.S. EE ’61) served as a trustee for more than 20 years and was a strong advocate for the university’s interprofessional Projects program. He served on the ITI Research Institute Board and the Technology Commercialization Committee and as president of the ITI Alumni Board. Through his work as president of the International Engineering Consortium and executive director of the Electrical and Computer Engineering Department Computer Associates, Janowiak provided wise counsel on matters of university programs and positioning in the engineering marketplace.

Janowiak served on the University of Illinois College of Engineering Advisory Board; he graduated from U of I with a B.S. in electrical engineering and was a member of Tau Beta Pi, Eta Kappa Nu, and IEEE.

Shaw was first elected to the board in 1980 and became a Life Trustee in 1997. He served with great distinction on the 1986 National Commission for ITI and on ITI’s Facilities Committee. He also held many other important volunteer roles on the board over the past 25 years. Shaw was one of the country’s leading private developers, and in that role, chaired the Urban Land Institute in 1994–95. He was active in numerous civic, educational, and healthcare organizations; serving on the boards of Northwestern University and Rush University Medical Center. One of his greatest civic contributions was the development of Homan Square, a mixed-income residential community on the site of the former Sears headquarters on Chicago’s West Side.

James Ingo Freed, Former Dean of the College of Architecture

ARCH ’53, New York

Born in 1930, Freed studied with Mies van der Rohe and worked with Mies on the Seagram Building before moving to the office of I. M. Pei. Freed then formed a partnership with Pei and Henry N. Cobb as I. M. Pei & Partners (later becoming Pei, Cobb, Freed & Partners), which became the premier architecture firm in the nation through the second half of the twentieth century. In 2001, the American Institute of Architects awarded the firm its highest honor, Firm of the Year.

Freed succeeded George Danforth as IIT’s dean of architecture (1975-76), and his term in academia resulted in many improvements to the college, including the 1975 restoration of S. R. Crown Hall. He also was the firm’s chief architect, bringing us a lifetime of significant architecture. “He says College of Architecture Dean Donna Robertson. “He also was a devoted alumnus who cared deeply about architectural education,”

Nambury Raju, Distinguished Professor of Psychology

M.S. MATH ’71; PhD ’74, Hinsdale, Ill.

An IIT alumnus, Nambury Raju joined the ITI faculty in 1979 as an assistant professor. He was promoted to associate professor and full professor on the basis of his work in the area of psychometric theory and test development. In 1991, he went to Georgia Tech as full professor of psychology and in 1996 returned to IIT, where he was named Distinguished Professor and senior scientific advisor of the Center for Research and Service.

Author of more than 150 publications and presentations, member of more than eight professional organizations, and editor or reviewer of more than 20 professional journals, Raju contributed substantially to the development of methods to evaluate and reduce bias in tests used in employment and educational settings. He was named Distinguished Professor and senior scientific advisor of the Center for Research and Service.

To order, call 312.567.3120.

Memorial gifts for the Nambury S. Raju Chair in Psychology will be accepted by the School of Applied Research and Service, ITI, 3301 South Dearborn, Chicago, IL 60608.
IIT’s campus radio station, heard on 88.9 FM, began as Armour Institute of Technology’s experimental radio station and has been in operation since 1931. Now prominently located in The McCormick Tribune Campus Center (MTCC) with the call letters WIIT, the station has moved locations six times (Chapin Hall, Brown Hall, the Mission Building, HUB, Main Building, MTCC), changed its call letters an equal number of times (W9NV, W9YW, WIIT, WIIU, WOUI, and back to WIIT), and switched from AM (640) to FM (88.9) over its history. Early DJs included faculty and students. Today’s volunteer DJs cover the spectrum of sounds and topics—from rock and rap to country; IIT librarians Matt Cook and John Dorr host a Monday noontime country and western program, “Trucker Caps and Cowboy Hats.”

Another transformation is the way people listen to the music and speech broadcast over radio waves. While radio is the earliest form of electronic mass communication, WIIT’s broadcast booth sits within ear- and eyeshot of MTCC’s bank of broadband computer stations, representing one of the newest forms of electronic mass communication. Students can sit at computer terminals a few yards from where the campus radio programs originate and listen to WIIT radio programs over the Internet. Of course, the sound first converts instantaneously from analog radio waves to digital electrical impulses.

While WIIT generally can be heard the “old-fashioned way” within a two-mile radius of MTCC, the best way to hear it away from Main Campus is via the Internet. Newer still, WIIT has begun Podcasting its shows via iTunes. To hear the broadcasts online and for instructions on how to hear Podcasts of shows, visit WIIT’s website, http://radio.iit.edu.

Sharing History
Do you have interesting materials from IIT’s past—books or manuscripts from Armour Institute, Lewis Institute, or IIT and its schools—that you would like to donate to the university’s archives? To find out if your IIT treasure could help chart history at the university, contact IIT Archivist Catherine Bruck at archives@iit.edu or 312.567.6840.
Martin Jischke, president of Purdue University and a 1963 graduate of IIT, recently spoke to the Rotary Club of Chicago–Near South at a meeting on our campus. One of the things he said was that he felt very fortunate to have been the beneficiary of the vision and generosity of Philip Danforth Armour. Martin, who grew up in Chicago as the son of a grocer, said he felt that he was the kind of kid that Philip was trying to help when he contributed the money to found IIT in the late nineteenth century.

Martin’s story of Philip Armour is a reminder of another person who left a great legacy—John Rettaliata. In this issue of the magazine, John reminisces about his days as president of IIT, including his relationship with Mies van der Rohe, the extensive construction of Main Campus, and his constant role as fundraiser. We are all beneficiaries of the vision and dedication that John brought to the university more than a half century ago.

In many respects, IIT is experiencing a similar transformation today with the addition of University Technology Park At IIT. Through partnerships with the city and state, we are beginning the first phase of a new research park—and we’re helping transform our surrounding neighborhood in the process.

Some of the biggest advances on our campuses, however, tend to focus on issues that are somewhat smaller in nature. The work of Dimitri Gidaspow provides you with a big picture view on how nanotechnology is changing our world, while the efforts of IIT’s Center on Nanotechnology and Society evaluate those issues from an ethical perspective.

The stories in this issue of IIT Magazine just scratch the surface of the kind of work that goes on at IIT each and every day. As we continue to plan for our future, I want to thank many of our alumni and friends who recently provided feedback on our Mission, Vision, and Values statement. Your comments and suggestions will continue to motivate us as we create the 2010 Plan that will shape the programs, services, and direction of the university for the coming five years and beyond.

Sincerely,

Lew Collens
President
The love of the game. And of thermodynamics.

Find out what else Irving Burg (ME '38) and Greg Albright (MMAE '06) have in common. To read about them and other IIT alumni and students who are sharing the path—and to learn how you can join them—visit www.iit.edu/alumni/sharethepath.

Get in the Game. SHARETHEPATH

UNIVERSITY TECHNOLOGY PARK
IIT’s new research park is changing the landscape of Chicago’s South Side.

SNAPSHOTS
IIT’s unique student-athletes show there’s more to life than sports.

JOHN T. RETTALIATA
Former IIT president revisits his legacy.