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Dear Friend of CSL:

It has been a year since I wrote to you for the first time as incoming dean of the college—and what a year this has been!

In the past 12 months, we have seen an unprecedented collapse of financial markets and the economy, a major shift in the national political base of power, the beginnings of an uncertain economic recovery, and major discussions on international policy, national health care, and energy and environmental policy—just to start.

The unforeseen nature and complexity of these events and issues underline a point in last year’s letter—the need “to train future leaders who not only excel in their chosen disciplinary or professional areas, but are educated in a much broader sense with an awareness of the needs and complexity of the modern world.”

This thought is incorporated in one of the major goals of the recent IIT Strategic Plan, Many Voices, One Vision: to distinctively define the IIT graduate as one whose education at IIT combines discipline-specific expertise equivalent to that at the very best private technological universities, with exposure to the knowledge and mindsets of the broad range of disciplines and professions at IIT. The College of Science and Letters is playing a key role in the further development and implementation of the definition of the distinctive IIT graduate. I look forward to keeping you informed as we progress in this direction and welcome your thoughts and input.

In parallel with the IIT strategic planning process, the college has also carried out its own planning. A working group of faculty and staff from my office produced a draft document in April 2009.

Vision and Mission

The most important pieces of any plan are the vision and mission statements.

The CSL vision statement reads:

IIT’s College of Science and Letters will be a model of scholarship, discovery, invention, and education in the humanities and sciences in a university focused on science, technology, and the professions. To that end, CSL will be known:

- For excellence and commitment in all our activities.
- For the preparation of our graduates for leadership by the broad and practical ways in which they can think, communicate, and engage with their world.
- For the special regard in which we hold our students and colleagues.
- For sharing our love of learning and creating an environment of hard work, excitement, and enjoyment, which emphasizes ethical behavior and mutual respect.
- For being a model of cooperation and collaboration in the education of all of IIT’s students and in IIT’s collective endeavors.
- As the partner of choice for shared ventures with scientific, educational, and cultural institutions in Chicago, the United States, and the world.

And the mission:

To create and share knowledge in our disciplinary areas and to join with colleagues and partners in advancing new and innovative education, scholarship, thinking, research, and application.

These statements form the essential base on which we have built our goals and associated plans for action. I will not go into the details of the tasks we have laid out for ourselves; these can be seen in the plan itself (you can see it online at www.iit.edu/csl/about/strategic_plan). I do, however, want to say a few words on two of them.

Raising the Visibility of the College

The College of Science and Letters has its roots in the Lewis Institute, founded in 1896, and Armour Institute, founded in 1894. Over the years, our college has variously existed as an independent unit and has been embedded in Armour College. Six years ago, the College of Science and Letters emerged to stand alone. Needless to say, this has created a somewhat confused sense of identity, both within and outside IIT. Hence the pressing need to establish a distinctive identity and brand for the college with a set of messages appropriate to the internal environment of IIT, to our students and their families, to our alumni, and to our friends and supporters, as well as prospective students, partners, and others.
Drawing on the history of the college and of IIT, and with the considerable help of colleagues and alumni, together with expert counsel and advice of Joel Krauss (MATH ’71), we have formed a set of images and messages that we hope will better define our college.

The essence of our brand relates to the fundamental nature of the disciplines represented in the college and to the reliance of all application and practice to this fundamental knowledge.

A visual representation of this notion will be evident from the cover and elsewhere in this issue of the newsletter. Our specialties are represented as elements in a periodic table, forming, as they do in chemistry, the building blocks of all complex matter and materials. With the visual elements come words and phrases designed to emphasize the unique features of our college and IIT. One of these phrases—“preparing minds”—comes directly from conversations I have had with many of you over the past year. It concerns the state of mind necessary to make the intuitive leap forward or to seize the opportunity. Simply put, the mind is prepared ahead of time to see the opening and advantage. As the great French scientist and humanitarian Louis Pasteur said, “Fortune favors only the prepared mind.” This is not chance; it is our business to prepare the minds of our graduates for the opportunities that will be presented to them as they go out into the world.

**Financial Strength**

The happenings of the past year have driven home the rather precarious nature of our financial situation. Fortunately, we appear to have weathered the storm, but not without accepting considerable budgetary stringency. In the long term we simply must put the college on a firmer fiscal footing. We plan to do this in several ways.

- We will develop a clear understanding of our college’s economy and use this understanding to manage the college in the optimum way.
- We will develop a clear set of resource needs attached to each of our strategic goals, sub-goals, and consequent actions to make clear what is being asked for and what will be delivered.
- We will promote CSL and the plan for the future to our constituents and stakeholders, and we will use our resources wisely to advance the mission of the college.
- We will be accountable to those who support us.

The economy of a private academic institution is complex and involves connections between academic reputation, the ability to attract excellent students and the tuition they bring with them, the ability of our faculty to bring in external funds for research, which in turn support graduate students, and so forth. Of these, in the final analysis, the quality of the faculty is the key ingredient.

Over the past year, due to retirements and other transitions, we have been able to hire several absolutely outstanding new young faculty. We currently are searching for a new chair of the Department of Humanities and seven junior faculty across the disciplines.

A glaring gap in our faculty portfolio is the total absence of endowed chairs in the college. An endowed chair is the highest recognition of academic achievement and standing, and it is the currency that would allow us to attract and retain the very best senior faculty and to raise the visibility of the college. In addition, the income stream from the chair endowment relieves other areas of the budget, allowing, for example, additional junior faculty hires.

The redress of this imbalance is therefore one my very high priorities. It goes right to the core of defining the college, to the promotion of academic excellence, to the recruitment of students and faculty, and to the growth of external funding for our activities.

I shall be talking more about this as I meet with you over the coming months at IIT events and elsewhere, and hope I can count on your support in moving the college to the next level.

It is my continued pleasure to serve the college and IIT. I am optimistic that a great future lies ahead for us.
In October 2008, the College of Science and Letters embarked on a strategic planning process. As Dean Russell Betts wrote in his letter of invitation to the strategic planning group, “This is a time of great opportunity for IIT and particularly for the College of Science and Letters. At the same time, we face quite significant challenges. It is therefore extremely important that we make preparations to face these challenges and position ourselves to take advantage of opportunity.”

CSL Strategic Plan and Brand: Preparing for Opportunity
Key goals for the group included developing and articulating a vision for CSL and a statement of mission; surveying the college’s strengths, weaknesses, and opportunities; and developing several overarching goals for the next five to 10 years.

Members of the working group included Matthew Bauer (Humanities), Brant Cage (BCPS), Patty Cronin (Dean’s Office), Michael Davis (Humanities/Center for the Study of Ethics in the Professions), Jinqiao Duan (Applied Mathematics), Robert Ellis (Applied Mathematics), Cindy Hood (Computer Science), Joel Krauss (CSL Board of Overseers and MATH ’71), Judith Lederman (Mathematics and Science Education), Chris Nippert-Eng (Social Sciences), and Katie Spink (BCPS).

A draft of their resulting plan is online at www.iit.edu/csl/about/strategic_plan. Key goals focus on undergraduate, graduate, and professional education; scholarship, research, discovery, and invention; application and engagement; college visibility; and financial strength. They range from increasing our majors to expanding Chicago-area partnerships to enhancing mentorship and advising of graduate students throughout their IIT stay.

The planning process reaffirmed how special CSL is, and how important to IIT. This is so not only because about one out of five graduates of IIT gets a degree from CSL, and the college serves every undergraduate. CSL also has a truly distinct blend of offerings in science, technology, and humanities not available elsewhere and a resulting unique ability to “prepare whole minds” for whatever opportunities arise. It has a wonderful history that includes luminaries like Karl Menger, Susan Solomon, and Herb Simon. It is strong in its individual pieces, and even stronger as a whole.

CSL is like a classic liberal arts college but for the technological age, combining all the benefits of a small, private institution with those of a major research institution. Students focus on a core discipline but also explore others. The college offers more than 40 academic specializations, many of them interdisciplinary. Some majors, like applied mathematics, have so many electives that many students end up with double majors.

Such multidisciplinary experience makes sense in a time when most people have more than one profession or use more than one discipline, need to interact with those in other disciplines, need to solve problems requiring interdisciplinary perspectives such as hunger or global warming, and/or need to work in a field that is increasingly interdisciplinary, such as medicine or energy.

Such ideas are now being brought out in the college’s brand planning, begun in spring 2009. The “periodic table,” T-shirt, and mugs shown here, all designed by TCID Ph.D. candidate and Communications Associate and Project Administrator Jim Maciukenas, capture some of these concepts. We welcome your response as well as your continued input.
David Silver (CHEM ’62) majored in chemistry at IIT but also took as many mathematics and physics classes as he could. He remembers Professor Karl Menger and still has Menger’s calculus book. He also had Professor Peter Lykos, who helped get him involved in computer projects.

“What you can do to solve the problem is more important than the discipline (chemistry) that is listed on your diplomas,” Silver wrote recently to Lykos. “I have always been comfortable with math, physics, and chemistry and their application in diverse areas.”

This is clear from Silver’s career as a senior scientist at the Milton Eisenhower Research Center, Johns Hopkins University Applied Physics Laboratory. The APL is a not-for-profit research and development organization with more than 600 programs, primarily for the Department of Defense, Department of Homeland Security, National Aeronautics and Space Administration, and National Security Administration; 4,500 employees, mostly scientists and engineers; and a budget of about $980 million. Silver has worked at APL since 1970 on molecular physics, submarines, atmospheric chemistry, electromagnetic scattering, spacecraft, and ophthalmology, and he has published widely.

Most recently, Silver used his knowledge of fluid dynamics and ophthalmology to help Dr. Harry Quigley of the Wilmer Eye Institute at Johns Hopkins with a breakthrough in Quigley’s glaucoma treatment research. Quigley is the A. Edward Maumenee Professor of Ophthalmology and director of both the Glaucoma Service and the Dana Center for Preventive Ophthalmology at the Wilmer Institute. Silver’s breakthrough was the discovery that the iris of the eye loses half its volume when the pupil enlarges — it absorbs water and expels it, losing volume rapidly when the pupil enlarges. Knowing this could help doctors determine which people may get Angle Closure Glaucoma, or ACG, and could save millions of people from unneeded iridectomies.

Silver wrote to Lykos, “It feels good to be making a genuine contribution to an important problem. One of the things I have always liked here at APL is the non-disciplinary aspect of applied physics. These days it is ophthalmology, and I am enjoying it.”

Silver is a member of the American Association for the Advancement of Science, American Chemical Society, American Physical Society, and Association for Research in Vision and Ophthalmology.

This summer, alumnus Mike McCourt had the chance to put his skills to the test in Washington, D.C. The 2007 applied mathematics graduate, now a Ph.D. candidate in applied mathematics at Cornell University, worked with the Democratic National Committee for nine weeks to analyze data from the 2008 elections.

After an H1N1 quarantine shut down McCourt’s Hong Kong teaching project, he traveled from Ithaca, N.Y. to the U.S. Capitol and soon was working late nights with fellow graduate students in mathematics and statistics, trying to understand the dynamics of an election. Of the seven students working on the project for the DNC, four used statistical analysis and two built models to analyze the data. McCourt, prepared by IIT mathematics in cutting-edge techniques, used meshfree methods taught by Professor Greg Fasshauer to study complicated interactions between multiple variables.

“Basically...well, there’s nothing basic about it,” said McCourt. “The idea was to take an approach from numerical analysis and apply it to a problem from statistics. Greg and I have been trying this for a while now, and this was a successful example.”
New Armour Dean Emphasizes Interdisciplinary Collaboration

The new dean of Armour College of Engineering, Natacha DePaola, has a background that includes biomedical engineering, mechanical engineering, and medical physics, and she is committed to developing interdisciplinary opportunities with the College of Science and Letters and other partners. This was a key attribute to the search committee, chaired by CSL Dean Russell Betts, that helped to identify her this spring.

She earned a B.S. in mechanical engineering from Universidad Simon Bolivar in 1984, an M.S. in mechanical engineering from Massachusetts Institute of Technology in 1987, and a Ph.D. in medical engineering and medical physics from the Harvard-MIT Division of Health Sciences and Technology in 1991. She did postdoctoral work at Columbia University in 1992.

Before coming to IIT, she chaired the biomedical engineering department at Rensselaer Polytechnic Institute, where she had been a faculty member since 1994. Before that, she was an assistant professor of biomedical engineering at Northwestern University. DePaola received a National Science Foundation Faculty Early Career Development Award, is a Frontiers Alumna of the National Academy of Engineering, and is a fellow of the American Institute for Medical and Biological Engineering, among other achievements.

Armour’s first female dean and IIT’s first Hispanic dean, she was invested with the Carol and Ed Kaplan (M.E. ’65) Armour College Dean of Engineering Endowed Chair in October. Also in October, she received the 2009 Woman of Achievement Award from the Chicago Alliance of Women.

Mike McCourt (AMAT ’07)

McCourt not only had high-level technical skills to offer in a town with “more history majors than I’ve ever met in my life,” as he put it, but a different point of view even from his fellow mathematicians—one that he felt helped to make his research effective.

“IIT prepares you so well, so uniquely,” McCourt said. “It taught me how to use mathematics as a problem-solving tool. They don’t just teach you, ‘This is math—here’s how you do it.’ They give you tools to apply to various things, even things they may not have thought of.

“They also spend lots of time getting you to be flexible, open-minded, and interested in other things. If you had told me six months or a year ago that this is what I would be doing last summer, I wouldn’t have believed you.

“With an applied mathematics degree from IIT, you can do anything—engineering, applied mathematics, finance, programming,” he added.

McCourt next will do some work at Argonne National Laboratory with Hong Zhang, an IIT computer science research professor and guest faculty member in the Mathematics and Computer Science Division at Argonne. McCourt did a Research Experience for Undergraduates with Zhang in 2006.
More than 130 humanities and computer science scholars and students came to IIT’s Main Campus in November for the fourth annual Chicago Colloquium on Digital Humanities and Computer Science, or DHCS. The conference, “Critical Computing: Models and Challenges for Interdisciplinary Collaboration,” was sponsored by the College of Science and Letters, the University of Chicago Division of the Humanities, and Northwestern University. It was organized by Shlomo Argamon, associate professor of computer science, together with Kathryn Riley, professor and chair of humanities; CSL Dean Russell Betts gave the welcome and introduction.

“As a college of science and letters in a major technical university, CSL has a particular interest in digital humanities and unique opportunities for collaboration,” said Betts.

Said Argamon, “The field of digital humanities was founded by and is still largely made up of humanities scholars who have learned enough about computing to build useful software systems, but aren’t computer scientists. In the past decade, however, some computer scientists, me included, have gotten interested.” However, added Argamon, no forum existed to facilitate truly interdisciplinary efforts. So, four years ago, he joined together with Mark Olsen, assistant director of the ARTFL Project at the University of Chicago; Arno Bosse, senior director for technology of the Division of the Humanities at the University of Chicago; and Martin Mueller, professor of English and Classics at Northwestern University, to create a forum to bring the two groups together. Part of the inspiration was the success of the collaborative fields of computational biology and bioinformatics, Argamon noted.

The result is the annual DHCS, with two-and-a-half days devoted to presentations of original research, technical tutorials, and cross-fertilization of ideas in the humanities and computer science. This year’s attendees came to
Chicago from as far away as France and Germany; from top universities including Massachusetts Institute of Technology, Harvard University, University of California San Diego, University of Maryland, and Columbia University; from corporations including IBM and ARTstor; and from governmental institutions including the National Endowment for the Humanities and the Library of Congress.

Keynote speakers were Stephen Wolfram, founder and chief executive officer of Wolfram Research, creator of Mathematica and Wolfram|Alpha, and author of A New Kind of Science; Vasant Honavar, professor of computer science at Iowa State University and a leading figure in computational biology; and Roger Dannenberg, associate research professor of computer science and art at Carnegie Mellon University, fellow of the Studio for Creative Inquiry, and a pioneer in computer music research. Both Honavar and Wolfram emphasized how computer science can bring new ways of thinking to the humanities that can catalyze new ideas and value. As Jeannette Wing, President's Professor of Computer Science at Carnegie Mellon and assistant director at the National Science Foundation, has suggested, “computational thinking” in problem solving may be “a fundamental skill for everyone, not just computer scientists.” (One example is using multiple levels of abstraction to reason about very complex systems of representation.)

Argamon sees DHCS as a facilitator of a new type of scholarship and learning. “Consider the history of scholarship. In the beginning—from the classical period through the seventeenth century or so—it was conceivable and indeed possible to know essentially everything there was to know. Scholarship meant mastery of all fields of knowledge,” he said, “there was no concept of a ‘specialist.’ Thus Aristotle, for example, was authoritative on topics as diverse as logic, biology, ethics, and poetry.”

Around the time of the Enlightenment, however, the enormous growth of knowledge led to the formation of separate disciplines, as it became increasingly difficult for a single individual to attain deep understanding in many areas of knowledge. The rise of the specialist did help accelerate the growth of human knowledge, but also narrowed scholarship that was now confined to the boundaries of particular disciplines.

“We are now starting to see, however, the development of a third type of scholarship, a synthesis of the earlier models,” Argamon continued. “There is a growing recognition that disciplinary boundaries are essentially artificial, and that they in fact may slow or prevent the development of understanding.

“There is now a move back to viewing all of human knowledge as a unified whole, but with the recognition that even the most exceptional individual can be an expert in only a small fraction of it. So we are now entering an age of collaborative scholarship, in which teams of scholars from multiple fields work together to achieve understandings beyond the capacity of any one of them. Facilitating this process is what DHCS is all about.

“The fact is, computer science, broadly construed, is vital to this new kind of scholarship.” Argamon said. “I believe that the spread of computational thinking in the humanities, which we have been cultivating via DHCS, will stimulate new and deep intellectual collaborations that will revolutionize academic scholarship in the coming century. From what I see, and I have heard others say the same, the presentations and discussions this year at DHCS show this idea starting to bear fruit.”
2009 CSL Undergraduate Summer Research Stipend Winners

A few years ago, Jesse Reinhardt (BCHM, 4th year) was working at Wrigley Field, washing dishes and preparing food, trying to figure out what to do next with his life. He enrolled at Truman College to study biotechnology and then transferred to IIT in fall 2006 to major in biochemistry.

After he ranked first in Biology Professor Ben Stark’s genetics class, Reinhardt was asked to join Stark’s lab to work on his research project for Saudi Aramco with Research Professor John Kilbane. They are attempting to engineer bacteria that can utilize dibenzothiophene, the major sulfur component in crude oil, so that when refined to gasoline it releases less sulfur into the atmosphere on combustion. In one process, three genes linked together as an operon (dszABC) can catalyze reactions to do this; but no bacteria can do this at a rate feasible for industry and at high (≥60° C) temperatures, so one must be made. “Saudi Aramco wants a bacterium that can survive at higher than 60°C and use DBT like a banshee,” explained Stark.

This summer, thanks to winning a CSL Undergraduate Summer Research Stipend, Reinhardt was able to work full-time in Stark’s lab. He tried to find dszABC operons that will encode enzymes to function at high temperatures and to obtain bacteria that will grow at high temperatures, in high salt concentrations, and in the presence of crude oil. He put soil samples from under the Chicago “El,” from the Grand Canyon, and from Hot Springs, Ark., through growth regimens to select for the right characteristics. Ultimately, he created a library of strains that can be combined and tested to produce an engineered strain that can grow at high temperatures with DBT, and eventually crude oil, as their sole sulfur source.

“It was really a good experience,” Reinhardt said. “I’ve been able to get in-depth, hands-on skills that are hard to get by just taking regular classes.” The research experience also helped to galvanize his professional goals. He plans to graduate this December, work for the next year and a half to save money, and then enter medical school in fall 2011 and specialize in infectious diseases.

Jesse Reinhardt, Professor Stark, and Stark lab members and biology master’s degree students Ling Xu, Fan Wu, and Suni Lokesh

Such is the power of the CSL Undergraduate Summer Research Stipend to help students figure out what they would like to do professionally. They provide undergraduates with $5,000 for 10 weeks of focused research in the summer under faculty guidance, offering the opportunity to see what it is like to work in a lab alongside faculty who are leaders in their fields of research. Students explore their interests, solve problems, advance knowledge, and prepare for their next step – whether graduate school, medical school, or the workplace.

The stipends are funded by the CSL Board of Overseers and CSL alumni, who have helped 24 students to date.

The other winners this year were:

**Jae Kwan Lee (AMAT, 4th year)**

A student from South Korea who transferred to IIT from Ajour University in 2008, Lee assisted Professor of Applied Mathematics Jeffrey Duan, whose expertise is mathematics to help describe random, dynamic systems, including biomedical systems. Lee created a model in MATLAB (the computing environment and programming language) to study the impact of small perturbation on the invariant manifolds for application to biomedical modeling. Perturbations help find an approximate solution based on a solution to a related problem, and invariant manifolds are geometric structures that help users to understand dynamical behaviors of complex systems. In his model, “I changed the perturbation so it showed a change in the model,” said Lee, and tracked the results. Ultimately, the idea is to help scientists understand how the biological process changes when some system parameters change.

**Andrew Yates (CS, 2nd year)**

Yates worked with Wai Gen Yee, assistant professor of computer science, to create an educational video annotation and indexing system. Last winter, Yates helped Yee to collect and analyze more than 1 million YouTube comments to see if they were worth searching and would help improve searches – determining yes on both counts. This summer, Yates wrote a program for recording the video annotations and searching them. He also surveyed related work and systems, and wrote documentation for the research and results. Yee plans to use this work as a basis for an Interprofessional Projects (IPRO) Program course.

**Evan Estola (CS, 3rd year)**

Estola used his computer expertise to help Biology Professor Doug Cork to extend the use of Cork’s W-Curve algorithm. The W-curve helps to visualize and analyze long genomic sequences and infer the phylogenetic (evolutionary) history of a species. Instead of a string, the W-Curve describes DNA as a three-dimensional curve, making it easier to see patterns. Estola built a live CD of the W-Curve so biologists can use it on any PC. Cork gave the CDs to researchers working on the HIV-1 virus at Walter Reed Army Research Hospital, where he is doing a yearlong sabbatical with the U.S. Military HIV Research Program, Henry Jackson Foundation. Estola also wrote a program to examine HIV strings by randomly mutating them and comparing them to a value set, drawing on knowledge from his advanced CS classes and work in the Information Retrieval Laboratory, and with help from...
graduate students. “The difference in speed for the W-Curve algorithm is ridiculous, absurdly useful,” Estola noted.

Aram Apyan (PHYS, 2nd year)
Apyan’s faculty mentor, Yagmur Torun, assistant professor of physics, develops technologies to improve particle accelerators. Apyan’s research project was to test the use of Cerenkov radiation to detect field emission, which can reduce accelerator performance, in superconducting cavities. The superconducting radio frequency cavities of accelerators are electromagnetic resonators of great precision operated at 2 Kelvin for maximum efficiency in generating electric fields for accelerating particles. “Dark current,” or extra current of electrons stripped from the inner surface of accelerating cavities, can interfere with the main accelerator beam.

Their thesis: “SRF cavities are made of thin metal shells in a metal liquid helium vessel. This system can be viewed as a Cerenkov radiator between a set of mirrors. Field-emitted electrons can punch through the cavity wall and generate Cerenkov light in helium, which can be collected by appropriate photodetectors.” Apyan created a simulation of electron and Cerenkov photon transport in a TESLA-type superconducting cavity to evaluate the feasibility of the method.

Erik Harpstead (PSYC and CS, 3rd year)
Harpstead and Matthew Bauer, senior lecturer in computer science, collaborated on a project to research and redesign IIT’s computer science education requirement (CS105/ARCH125/CS115). In a higher-level class, CS201, Harpstead said, “Students are presented with problems and asked to find ways to solve them with minimal handholding and more of a focus on good program-

Ryan McClure (CHEM, 3rd year)
McClure worked with Joy Chong, associate professor of chemistry, on synthesis of ligand for positron emission tomography imaging. Chong and her team create targeted therapeutic and imaging drugs for cancer and neurodegenerative diseases, making drugs for antibody-targeted radiation therapy, iron-depletion therapy, and magnetic resonance and positron emission tomography imaging. McClure began working in Chong’s lab last winter, preparing and carrying out a synthetic route of precursor molecule for C-NETA, a bifunctional macrocyclic ligand designed for the targeted radiation therapy of cancer, and performing 1H and 13C NMR to determine the structure of compounds. This summer, he made progress in the synthesis of a macrocyclic bifunctional ligand for positron emission tomography imaging of gastrin-releasing peptide receptor expressing tumors.

Peter Schemmel (PHYS, 2nd year)
Schemmel assisted Thomas Irving, professor of biology and physics, in designing and fabricating muscle physiology setups for Irving’s work. This included a laser-diffraction system for combined X-ray diffraction and physiological measurements from intact cardiac muscle. “We are still testing and making tweaks to the setup, but we intend to use it at the synchrotron [X-ray at Argonne],” said Irving. Schemmel also helped to build a rig for combined laser light diffraction and muscle mechanics for the flight muscles of the Hawkmoth Manduca sexta, with a prototype setup assembled and used in an experiment at Argonne. “Working with Professor Irving has dramatically increased my desire to become a scientist,” noted Schemmel, who wants to earn a Ph.D. in physics and teach. “There is no longer any doubt as to where I want my future to end up.”

To make a donation to the CSL Undergraduate Summer Research Stipend fund, please call 312.567.3132 or use the enclosed envelope.
Alumni Service Awards

Jerry Frank (M.S. MATH ’69, Ph.D. ’72), professor emeritus of mathematics (1976–2008) and former department chair at IIT, developed the concept now known as “Frank’s Family,” co-authored the book *Associative Functions: Triangular Norms and Copulas* (2006) and other publications, and served on numerous IIT administrative committees to help IIT students, community members, and high school students. Notably, he helped to establish the annual IIT Karl Menger Lecture and Award program, an event that attracts many alumni and friends.

Earl Zwicker (M.S. PHYS ’52, Ph.D. ’59), professor emeritus of physics (1959–1991) at IIT, helped to start the Chicago Region High School Bridge Building Contest, co-founded and co-directed IIT’s SMILE (Science and Mathematics Initiative for Learning Enhancement) program, and received a number of awards, including the Millikan Award, American Association of Physics Teachers; John Rush Award, Illinois State Physics Project; and the IIT Excellence in Teaching Award.

Global Service Award

Timothy Zamb (BIOL ’68, Ph.D. ’78) is head of the AIDS Vaccine Development Laboratory, International AIDS Vaccine Initiative; senior director, IAVI Research Development; and professor, Department of Pediatrics, State University of New York. He received a $23 million grant from the Bill and Melinda Gates Foundation, which has allowed him to work with some of the best vaccine experts in the country. “Now we’re able to attack the AIDS problem in an interdisciplinary way and are bringing together different pieces of the puzzle,” he says.

Professional Achievement Awards

George M. Langford (M.S. BIOL ’69, Ph.D. ’71) is the dean of the College of Arts and Sciences and professor of biology at Syracuse University. Before Syracuse, he was Ernest Everett Just Professor of Natural Sciences and professor of biological sciences at Dartmouth College, and adjunct professor of physiology at Dartmouth Medical Center from 1991–2005. President Bill Clinton appointed him to the National Science Foundation board to advise on scientific issues. Langford is featured in the book *Distinguished African American Scientists of the 20th Century*.

Anthony M. Trozzolo (CHEM ’50) is Huisking Professor Emeritus of Chemistry, University of Notre Dame. Before that, Trozzolo was a member of the technical staff of Bell Telephone Labs for 16 years. He also held several editorial positions for the American Chemical Society. He has published more than 90 articles and been issued 31 U.S. and foreign patents. He has delivered more than 300 lectures worldwide at universities and laboratories and is a fellow of numerous scientific associations.
Professor Xian-He Sun Named New CS Department Chair

In June, CSL Dean Russell Betts announced that Professor Xian-He Sun has been appointed chair of the Department of Computer Science. Sun assumed his duties at the start of the academic year. Applied Mathematics Professor and Chair Fred Hickernell chaired the search committee, which included Peng-Jun Wan, professor of computer science and engineering; Cynthia Hood, associate chair and associate professor of computer science and engineering; Gady Agam and Xiang-Yang Li, associate professors of computer science; and Mohammad Shahidehpour, professor and chair of the Department of Electrical and Computer Engineering. Betts thanked Professor Bogdan Korel for his outstanding service as interim chair.

The director of IIT’s Scalable Computing Software Laboratory, Sun is an authority in high-performance computing. His research interests include parallel and distributed processing, high-end computing, software systems, and performance evaluation. He is a guest faculty member in the Mathematics and Computer Science Division and Computing Division at Argonne and Fermi laboratories. This year, he received IIT’s Sigma Xi Research Award (Senior Faculty Division).

Among his recent activities, this summer he gave the keynote speech “Reevaluating Amdahl’s Law in the Multicore Era” at INFOSCALE09 in June in Hong Kong. INFOSCALE is the International Conference on Scalable Information Systems, held by the Institute for Computer Sciences, Social-Informatics, and Telecommunications Engineering, a global research society.

Multicore architecture, or architecture having a processing system with two or more cores or CPUs, is now the norm. But there are questions about if and when we should scale up the number of cores to hundreds or more and enter the “many-core” era. In his speech, Sun noted that major vendors are reluctant to do this so far because of Amdahl’s Law—having to do with what maximum improvements can be expected to a whole system when part of it is improved—and the “memory wall,” i.e., the gap between CPU speed and memory outside of the CPU chip.

Sun used the same hardware cost model of multicore chips used by Mark Hill and Michael Marty, who developed the multicore Amdahl’s Law theory, to introduce two performance models from the scalable computing point of view. He found that there is no inherent, immovable upper bound on the scalability of multicore architecture. Sun concluded with proposed solutions to the memory-wall problem to make the potential scalability of multicore reachable in practice.

Sun received his Ph.D. in computer science from Michigan State University in 1990. He joined IIT in fall 1999 as an associate professor of computer science and in 2002 was promoted to professor. Before joining IIT, he worked at the U.S. Department of Energy’s Ames Laboratory at Iowa State University; the Institute for Computer Applications in Science and Engineering at NASA Langley Research Center; and Louisiana State University, Baton Rouge. He also was an American Society for Engineering Education fellow at Navy Research Laboratories.

Sun has published more than 150 research articles, has 10 granted and pending U.S. and international patents, and is supported by the National Science Foundation and other U.S. government agencies. He is a senior member of IEEE (Institute of Electrical and Electronics Engineers) and ACM (Association for Computing Machinery), a member of Phi Kappa Phi, an editor of five international professional journals, and president of the Society of Chinese-American Professors and Scientists.
With new initiatives and direction, the College of Science and Letters also expanded its board of overseers this year.

Existing members include Chair James E. Cowie, managing director, Frontenac Company and an IIT trustee; Patricia E. Berg (Ph.D. BIOL ’73), professor of biochemistry and molecular biology, The George Washington University Medical Center; Terrence Heng, senior vice president, Motorola, Inc., retired; Joel D. Krauss (MATH ’71), lead partner, professional services, Market Strategy Group; and Anita M. Nagler (LAW ’80), chair and chief executive officer, Harris Alternatives, LLC, retired (now consultant) and an IIT trustee.

Newly added members are:

Gary T. Johnson, president of the Chicago History Museum, is a graduate of Harvard University, Oxford University (Rhodes Scholar), and Yale University. He joined the Chicago History Museum after 28 years as a lawyer and partner in the Chicago offices of two global law firms, Mayer Brown and Jones Day. He has a record of leadership in the civic arena, particularly in civil rights and legal services to the poor, and he was a member of the Chicago 2016 Committee for Chicago’s Olympic bid.

Young-Kee Kim, deputy director at Fermilab and professor of physics at the University of Chicago, earned a B.S. and an M.S. in physics from Korea University and a Ph.D. in physics from the University of Rochester. She was a postdoctoral fellow at the Lawrence Berkeley National Lab and a professor at the University of California, Berkeley, before coming to Chicago. An internationally recognized researcher in experimental particle physics, she was named one of “20 Young Scientists to Watch” by Discover in 2000 and has received such awards as the Ho-Am Prize, Korea’s top science award.

Alfred P. Sattelberger, associate laboratory director for energy sciences and engineering at Argonne National Laboratory and professor of chemistry at Northwestern University, earned a Ph.D. in inorganic chemistry from Indiana University and was a National Science Foundation postdoctoral fellow at Case Western Reserve University. Before Argonne, he was on the chemistry faculty at the University of Michigan and a staff member at Los Alamos National Laboratory. Sattelberger’s research focuses on the inorganic and organometallic chemistry of technetium and the actinides. At Argonne, he oversees the division that focuses on energy production, storage, and use, and on national and homeland security challenges.

Efthimios “Tim” J. Stojka, chief executive officer of Fast Heat, Inc., earned a B.S. in electrical engineering from Northwestern University and an M.B.A. from Stanford University’s Graduate School of Business. He heads Fast Heat, an international manufacturer of hot runner systems and controls, electronic temperature controls, and electric heating elements. The company has manufacturing facilities and offices in France, England, and Singapore, and distributors worldwide. He was chief executive of Commerx, one of Chicago’s most prominent e-commerce businesses, from 1995–2000 and co-founder of PlasticsNet. He is an IIT trustee.

John Tracy, chief technology officer and senior vice president of engineering, operations, and technology for Boeing, earned a B.S. in physics from California State University, Dominguez Hills; an M.S. in physics from California State University, Los Angeles; and a Ph.D. in engineering from the University of California, Irvine. At Boeing he defines and implements corporate strategies to ensure technical and functional excellence and enhance the yield of technology investments across the enterprise. He provides strategic direction to several functions and business organizations comprising more than 100,000 Boeing employees. He is also an IIT trustee.

Paul Zelisko, executive director and head of equity investment systems for UBS Global Asset Management, earned a B.S. in finance and management science from Marquette University, Milwaukee, and an M.B.A. from the University of Chicago. He also earned the Chartered Financial Analyst (CFA) designation from the CFA Institute. Before UBS, Zelisko worked for American National Bank, Blue Cross/Blue Shield, G.D. Searle, and Castle Systems, the latter a software consulting firm that he founded, and that primarily served the financial industry.
New CSL Faculty

**Tanya Bekyarova** has been named a senior lecturer in biology. Bekyarova has been an instructor, a teaching assistant, and a research assistant at IIT, as well as a research assistant at the Biophysics Collaborative Access Team X-ray facility at the Advanced Photon Source at Argonne National Laboratory. She also did postdoctoral research at BioCAT. She earned a Ph.D. in biology from IIT in 2008, completing her thesis, “Mechanism of Stretch Activation in Insect Flight Muscle,” under the supervision of Tom Irving, professor of biology and physics and director of BioCAT.

**Laura Hosman** joins the social sciences department as an assistant professor of political science. Previously, Hosman was Ciriacy-Wantrup Postdoctoral Fellow in Natural Resource Economics and Political Economy at the University of California, Berkeley. Hosman earned a Ph.D., with distinction, in political economy and public policy from the University of Southern California in 2006, and an M.A. in economics there in 2004. She was a Fulbright Scholar and earned an M.A., *cum laude*, in international relations at the University of Amsterdam in 2000. She earned her B.A., *magna cum laude*, in political science from Wheaton College in 1997.

**Catherine M. Koehler**, whose research focuses on urban education, nature of science, and STEM (science, technology, engineering, mathematics) education, joins the mathematics and science education department as an assistant professor. Koehler earned a B.S. from Central Connecticut State College, an M.S. from Central Connecticut State University, and a Ph.D. from the University of Connecticut. Before IIT, she was an assistant professor of science education at the University of Cincinnati.

**Jahna Otterbacher** joins the Lewis Department of Humanities in January as assistant professor of technical communication. She earned a B.A. in economics and sociology from the University of Michigan, Ann Arbor, in 1997; an M.A. in applied statistics from the University of Michigan in 2000; and an M.A. in applied linguistics from Boston University in 2002. She earned a Ph.D. in information from the School of Information, University of Michigan, in 2006. Most recently, she has been a visiting lecturer in the Department of Public and Business Administration, University of Cyprus.

**Guohui Song** was appointed visiting assistant professor of applied mathematics. His research interests include statistic learning theory, reproducing kernel Hilbert space and its application, support vector machines, non-linear system identification and control, and stochastic differential equations. Song received a B.S. in mathematics and applied mathematics from Wuhan University in China, and an M.S. and a Ph.D. in mathematics from Syracuse University.

**Aditya Unni** is a new assistant professor of chemistry. Previously, he was a visiting assistant professor at Rockhurst University in Kansas City, Mo., and a postdoctoral research associate at the University of Tokyo's Graduate School of Pharmaceutical Sciences. Unni earned a B.A. in chemistry from St. Olaf College and an M.S. and a Ph.D. in chemistry from the University of Chicago. Unni has worked as a consultant with Mayer, Brown, Rowe & Maw, LLP, in Chicago and as a clinical chemist with the Mayo Clinic Foundation in Rochester, Minn.
MSED’s Lederman Named Honorary Professor

Norman Lederman, professor and chair, mathematics and science education, was named honorary professor in the Department of Mathematics, Science, Social Sciences and Technology at the Hong Kong Institute of Education. Located in Tai Po, the IED is the largest provider of teacher education in Hong Kong.

In addition, Lederman was awarded a 2009 Fulbright Fellowship to work at University of Pretoria and Limpopo University in South Africa in summer 2009.

Davis Speaks on the Poverty of Medical Ethics

Michael Davis, philosophy professor and senior fellow, Center for the Study of Ethics in the Professions, presented “The Poverty of Medical Ethics” at the Association for Practical and Professional Ethics annual meeting in Cincinnati in March. Davis also published the case study “Some Paradoxes of Whistleblowing” in Case Studies in Business Ethics, 6th Edition (Pearson Prentice Hall, 2009).

Stolley Receives Technical Communication Scholarship Award

Karl Stolley, assistant professor of technical communication and co-director of the Usability Testing and Evaluation Center, received the Computers and Composition Michelle Kendrick Outstanding Digital Production/Scholarship Award in June at the Computers & Writing Conference at the University of California, Davis. The award recognizes the creation of outstanding digital productions, digital environments, and/or digital media scholarship.

Nippert-Eng Plays Role in Thomas Gray Installation

Christina Nippert-Eng, associate professor of sociology, appeared in and helped to coordinate interviews for the installation by London-based Thomas Gray in the Zaha Hadid Chicago Pavilion, which opened in Millennium Park in August to mark the 100th anniversary of the Burnham Plan.

The Zaha Hadid Chicago Pavilion in Millennium Park, featuring Thomas Gray’s multimedia installation.

Irish Speaks on Migration Studies

Patrick Ireland, professor and chair, Department of Social Sciences, presented “Security and/or Participation: On the Need to Reconcile Differing Conceptions of Migrant Integration” at the International Studies Association Annual Convention in New York City in February. Ireland presented the paper “Female Migrant Domestic Workers in Southern Europe and the Levant: The Struggle for Social Rights and Economic Citizenship” at the 10th Mediterranean Research Meeting, organized by the Robert Schuman Centre for Advanced Studies at the European University Institute in Florence, Italy, in March.

Zawokiewski Elected to NCTM Board

Judith Zawojewski, associate professor, math and science education, was elected to the Board of Directors of the National Council of Teachers of Mathematics and will serve a three-year term.
Public Turns Out for “Angels & Demons” Antimatter Lecture

In June, Christopher White, associate professor, physics, presented the public lecture “The Science of Angels & Demons” in Wishnick Hall, introduced by Leon Lederman, Nobel laureate and Pritzker Professor of Physics. About 150 people attended. It was one of several dozen talks given worldwide by physicists to address the science in the movie based on the bestseller by Dan Brown, in which a key plot point is the theft of antimatter from CERN. The IIT lecture is online at www.iit.edu/publications/ittoday/angels.

Bunker Writes Book on XAFS for Cambridge University Press

Grant Bunker, professor of physics and associate chair, has written a new book that will be out in February from Cambridge University Press, Introduction to XAFS: A Practical Guide to X-Ray Absorption Fine Structure Spectroscopy.

As Bunker explains, XAFS uses the X-ray photoelectric effect and the wave nature of the electron to determine local molecular structures around selected atomic species in a broad range of materials. Unlike X-ray diffraction, XAFS does not require long-range translational order in the sample – it works equally well for amorphous materials such as glasses, liquids, (poly) crystalline solids, and even molecular gases. In addition, XANES (X-ray absorption near-edge structure) can provide information about atomic oxidation states, orbital occupancies, and site symmetry.

Pritzker Professor Lederman Speaks on Education

Leon Lederman, Nobel laureate and Pritzker Professor of Physics, gave the plenary talk “Education to Know the World in All Its Splendor” in May at the 2009 New England APS/AAPT Meeting, Northeastern University, Boston.

Li’s Article Earns Cover of Physical Review Letters

Applied Mathematics Assistant Professor Shuwang Li’s article “Control of Viscous Fingering Patterns in a Radial Hele-Shaw Cell” was featured on the cover of the May 1 issue of Physical Review Letters. Concerned with the pattern selection mechanism of systems driven out of equilibrium, the paper describes research in controlling shape instabilities during evolution. This was Li’s first publication as a member of the applied mathematics faculty at IIT.

Segerstrale Speaks on Values and Science

Professor of Sociology Ullica Segerstrale gave a keynote address, “Values and Science for the 21st Century,” at the international conference Values and the 21st Century, organized by the World Academy of Arts and Science, European Academy of Sciences and Arts, and other national academies at the Montene Grin Academy of Sciences and Arts in Podgorica, Montenegro, in November. Segerstrale is an elected member of the Finnish Society for Sciences and Letters.

Her talk described science as a unique and important social system oriented towards finding truth and establishing reliable knowledge, supported by a unique time-tested set of practices and processes that encourage creativity as well as criticism. But this system can only work reliably as long as it is not corrupted by political or economic pressures. She emphasized the need today to safeguard open discussion in science, noting that science is an important carrier of core academic and moral values for the twenty-first century.

Earlier, she gave the presentation “On the Edge of Creativity: The Case Study of W. D. (Bill) Hamilton” at the international Society for the Social Studies of Science (4S) annual meeting in Washington, D.C.

CS Researchers Receive Nearly $1.4M in NSF Grants

Three IIT computer scientists were recently awarded major grants totaling $1,383,835 from the National Science Foundation, for work to be done in networks, simulation, and high-end computing:

Zhiling Lan, associate professor of computer science, received $345,835 for her project “Toward Petascale Cosmological Simulation.”

Xian-He Sun, professor and chair of computer science, received $738,000 for his project “A Dynamic Application-Specific I/O Architecture for High-End Computing.”

Yee Named IPRO Outstanding Faculty

Wai Gen Yee, assistant professor of computer science, won the spring IPRO Outstanding Faculty Award. He led IPRO 327 to design and build a search engine that aggregates articles from news Web sites, analyze their “meaning,” and allow users to search for them based on meaning.

Hosman Publishes Paper on Nigeria and the Bargaining Learning Curve

Dr. Laura Hosman, who joined the Department of Social Sciences this fall as assistant professor of political science, published the article “Dividing the Oils: Dynamic Bargaining as Policy Formation in the Nigerian Petroleum Industry” in the September issue of Review of Policy Research.
Improving Communication in Noisy Places

Assistant Professor of Humanities Matthew Bauer led an interdisciplinary group of students in the award-winning IPRO (Interprofessional Project) 343, “Improving Communication Quality in Noisy Places,” this spring.

The team included co-team leaders Shavanna Pinder (ARCH) and Kevin Arnold (SSCI); Jessie Bauer (EECE), Brian Bjerke (EECE), Hyemin Choi (ARCH), Karen Hong (ARCH), Scott Justus (BCPS), Justo Moraga (EECE), Crystal Reynolds (PSYC), and Nor Tanapura (MMAE); and teaching assistant Halcyon Lawrence (Ph.D. student, TECH).

Some of the undergraduates who made the Spring 2009 Dean’s List visit with Russell Betts in his office at an informal Dean’s Tea.

Team members Scott Justus [left] and Brian Bjerke record public announcements on the platform at the CTA’s 35th-Bronzeville-IIT station.

CSL Helps Young Chemist Thrive

Fourth-year chemistry undergraduate Emily Mick’s experience helping to develop a novel iron chelator as an anti-tumor agent set her on a path for continued academic success. The recipient of a 2008 College of Science and Letters Undergraduate Summer Research Stipend, Mick worked with Joy Chong, assistant professor and cancer researcher, and coauthored a paper on her findings in the peer-reviewed chemistry journal Angewandte Chemie. Mick also presented a poster at the Chicago Area Undergraduate Research Symposium and was named winner of the Chemistry Division.

For her outstanding work in the classroom and laboratory, Mick was recognized with the 2008 Division of Analytical Chemistry Undergraduate Award from the American Chemistry Society and the 2008–09 Kilpatrick Scholarship from IIT.

“Having such a great research experience is a huge advantage for the future,” says Mick, who is applying to pharmacy school. “I have learned some fundamental organic synthesis skills as well as gained insight into how a college research group functions.”

Mick transferred to IIT at the end of her sophomore year from Lake Forest College because she was seeking a more comprehensive chemistry program within an intimate environment that would give her ready access to faculty. Born in Park Ridge, Ill., Mick was already familiar with the reputation and small-school environment IIT offered.

“Transferring to IIT was the right choice for me,” says Mick. “IIT has given me so many opportunities to show myself and others my potential. I have gained a lot of confidence in my academic ability by being here.”

— by Marcia Faye

Some of the undergraduates who made the Spring 2009 Dean’s List visit with Russell Betts in his office at an informal Dean’s Tea.
Solomon Inducted into National Women’s Hall of Fame

Susan Solomon (CHEM ’77), the internationally renowned atmospheric scientist, was inducted into the National Women’s Hall of Fame in Seneca Falls, N.Y., in October. A senior scientist with the National Oceanic and Atmospheric Administration in Boulder, Co., Solomon was the first person to explain how manmade chlorofluorocarbons were destroying the ozone layer. As co-chair of the Intergovernmental Panel on Climate Change, she shared in the 2007 Nobel Peace Prize. She was elected to the U.S. National Academy of Sciences in 1992 at age 36, the youngest member at the time, and has received numerous other honors, including the National Medal of Science. She was named one of the 100 Most Influential People in the World by Time in 2008.

Five faculty and students traveled to Seneca Falls, met with Solomon, and attended her induction ceremonies: Cynthia Hood, associate chair and associate professor of computer science and engineering; Rong Wang, associate chair and associate professor of chemistry; and undergraduates Nga Pham, Matti Alemayehu, and Meagan Sarratt.

“This was a wonderful opportunity to see one of IIT’s best role models be honored,” said Russell Betts, professor of physics and dean of the College of Science and Letters.

Mirza Joins Faculty at Rush University Medical Center

Ahmed Mirza (M.S. BIOL ’00, Ph.D. MBB ’08) is assistant professor, College of Health Sciences, Rush University Medical Center in Chicago. His work in recent years included three papers with Associate Biology Professor Nick Menhart and one with Tom Irving, professor of biology and physics, and director of the Biophysics Collaborative Access Team (BioCAT). The papers included “Differential stabilities of alternative exon-skipped rod motifs of dystrophin” (Biochim Biophys Acta, June 2009), co-authored by Menhart and Chris Ruszczak (MBB ’08), who worked in Menhart’s lab as an undergraduate and received one of the first CSL Undergraduate Summer Research Stipend awards.

Romalis Heads Particle Physics Group at Princeton

Mike Romalis (PHYS ’93), a professor of physics at Princeton University, heads a group of researchers who are trying to answer fundamental particle physics questions using tabletop experiments rather than colliders. High-precision experiments help to determine constants out to the eighth decimal place, where the effects of particular interactions start to have effects.

Yi named Outstanding Young Engineer by Chinese Institute of Engineers

Chih-Wei Yi (Ph.D. CS ’05) was named an Outstanding Young Engineer by the Chinese Institute of Engineers. Yi was a doctoral student of Peng-Jun Wan, professor of computer science and engineering, and is an assistant professor of computer science, National Chiao Tung University, Hsinchu, Taiwan.

Moore Leads REU in Wireless Ad Hoc Networks and Sensor Works

Loretta Moore (M.S. CS ’86, Ph.D. ’91), professor and chair of the Department of Computer Science at Jackson State University, is co-principal investigator on a National Science Foundation-funded Research Experience for Undergraduates program on wireless ad hoc networks and sensor networks.

Conference Honors Wyatt

Chemistry Professor Peter Lykos spoke at a conference honoring his former student Robert Wyatt (CHEM ‘61), the W. T. Doherty Professor of Chemistry at the University of Texas at Austin, in January in Austin. Wyatt is a pioneer in improving the molecular-level understanding of quantum chemical dynamics, and has been called the world’s leading expert in quantum dynamics and theoretical chemistry. The conference, “Computational Structure and Dynamics,” drew more than 30 speakers from around the world, including France, England, Israel, Japan, and Spain.
UPCOMING EVENTS

KILPATRICK LECTURE
Friday, February 19, 2010
IIT Main Campus
Chemistry Professor Braja K. Mandal will discuss his new book, Polymer Synthesis: Strategies and Tactics. It presents the latest developments in polymer chemistry, with emphasis on strategies and tactics to prepare monomers and polymers and to perform newly developed polymerization reactions. The lecture will be followed by a dinner with the American Chemical Society, Chicago chapter. For more information or to RSVP, please contact Professor Peter Lykos, lykos@iit.edu.

FOURTH ANNUAL IIT KARL MENGER LECTURE AND AWARD
Monday, April 19, 2010
IIT Main Campus
This year’s lecturer is Donald Saari, UCI Distinguished Professor, Mathematics and Economics, and director of the Institute for Mathematical Behavioral Sciences, University of California, Irvine. He is a member of the U.S. National Academy of Sciences and a fellow of the American Academy of Arts and Sciences, among other honors. For more information or to RSVP, please contact Professor Fred Hickernell, hickernell@iit.edu.