

Armour Campaign for Continued Engineering Excellence

IIT Armour College of Engineering traces its roots to Armour Institute, founded in 1890 to prepare students of all backgrounds for leadership roles—primarily as engineers—in a changing industrial society. Today, Armour College continues to maintain its longstanding tradition of excellence in engineering education and research. As part of this ongoing mission, the Armour Campaign for Continued Engineering Excellence was launched to ensure the quality and integrity of the Armour educational experience for this and future generations. The campaign has been structured to address the following key Armour initiatives:

Undergraduate Lab Renovation (Matching Fund)

Recognizing this initiative as the most critical component in undergraduate education, IIT President Lew Collens announced the establishment of a \$1 Million Matching Campaign for Excellence in support of these efforts in Armour College and the College of Science and Letters. The Armour initiative includes the renovation of 11 undergraduate teaching labs in the ChEE, CAE, MMAE, and ECE departments and totals approximately \$6 million. Phase II of this initiative will establish an endowment, funded at roughly the same level, for lab modernization and maintenance. Encouraging their fellow alumni to participate, IIT Board of Trustees members Ed Kaplan (ME '65) and Robert Cornog (MET '61) have answered the call to action by providing lead Armour gifts, pledging their respective contributions to the Computer Engineering Laboratory and the Advanced Mechanical Testing Unit of the Materials and Manufacturing Engineering Laboratory. (Note: Contributions received up to May 31, 2006, are eligible for matching.)

Graduate Scholarships

Established to provide an endowed source of funding for graduate students in addition to available research and university support

Women in Engineering Graduate Scholarships

Established as a source of funding for women pursuing graduate engineering degrees

Dean's Priority Fund

Established in support of the research and education program priorities of the Armour College of Engineering



—Join Us

We appreciate your consideration of these critical initiatives and hope that you will support the Armour Campaign for Continued Engineering Excellence.

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Armour College of Engineering

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Armour College of Engineering

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Fall 2005 vol. 1.1

InterFace

Armour College
of Engineering
ILLINOIS INSTITUTE OF TECHNOLOGY

The Newsletter of IIT
Armour College of Engineering



Hamid Arastoopour, dean
Max McGraw Professor of Energy,
Environment, and Economics

It is a great pleasure and honor for me to head the Armour College of Engineering, comprised by distinguished faculty, motivated and determined students, and successful alumni. Today, every facet of human society is being affected by advances in engineering and science. This rapidly shifting social order makes education and research in engineering more important than ever, especially in a technology-based university such as IIT.

Armour College is currently home to about 90 full-time faculty, more than 1,000 undergraduates and 1,000 graduate students, five academic departments, two institutes, and 12 research centers. In 2003, Armour College developed a comprehensive Five-Year Strategic Plan for the college. Please visit our website at www.engineering.iit.edu for details of the Strategic Plan and updates on all of Armour's departments and research centers.

Education plan

The Armour College Strategic Plan identifies our key initiatives in expanding the interdisciplinary perspective of the engineering curriculum, providing solid knowledge of the fundamentals, and at the same time, introducing interdisciplinary, real-world examples while maintaining our focus on interprofessional and entrepreneurial team projects. In addition, our curriculum will be revised to provide greater understanding of the societal and environmental issues that determine intellectual technological choices, and to set a new standard for excellence in engineering education and research at IIT.

Research focus areas

Armour faculty have identified four priority areas of engineering research: energy and sustainability, bioengineering, manufacturing, and nanotechnology. We have begun to closely focus on these priority areas and to increase our investments in them, as well as in the current two institutes and 12 research centers of the college. Another key research objective includes expanding part-

nerships with other universities, industry, government, and research laboratories.

World-class faculty

During the last two years, Darsh Wasan was elected to the National Academy of Engineering. In addition, Armour faculty received seven national and two local awards from engineering professional societies for their outstanding contributions to engineering research and education. Five of the faculty were named fellows of their engineering societies, and Armour faculty published seven books.

High-caliber students

We continue to recruit more undergraduate students of high academic caliber, to expand our graduate educational and research activities, and to attract more professional master, M.S., and Ph.D. students. Simultaneously, we are working to promote more interaction between our graduate and undergraduate students across different departments and cultures. We continue to launch new initiatives to attract more women, minority students, and faculty by creating a more welcoming and diverse community.

Call to action

In order to position Armour College among the leading engineering colleges in the nation, we have identified areas of significant need for investment, namely, undergraduate laboratory renovation, graduate scholarship endowment, women in engineering scholarship, and research and education priorities. I am pleased to announce that we have launched the Armour Campaign for Continued Engineering Excellence [see back page] to provide the anticipated funding required for these critical initiatives.

I am sure that with the help of our outstanding faculty and students and the support of our advisory board, alumni, and friends, we will be able to ensure that Armour College of Engineering at IIT continues to provide one of the best experiences in engineering research and education for current and future students.

Inside This Issue

Dean's Message

Department Updates

Biomedical Engineering (BME)

Chemical and Environmental
Engineering (ChEE)

Civil and Architectural Engineering
(CAE)

Electrical and Computer Engineering
(ECE)

Mechanical, Materials and
Aerospace Engineering (MMAE)

Expanding Armour's Interdisciplinary Focus
Armour Campaign for Continued
Engineering Excellence

Biomedical Engineering

www.iit.edu/~bme

Vincent T. Turitto, *chair*
Director, Pritzker Institute of Biomedical
Science and Engineering



The BME department has just finished its third year of operation, and we enjoyed welcoming a full complement of undergraduate students in fall 2005. In the short time since the department's inauguration, we have experienced remarkable growth and significant success, both by the faculty and our students.

Academically strong students

Currently, the department enrolls about 90 undergraduate students. The students who are entering are among the strongest academically at IIT. A junior, Sean Pitroda, was awarded the prestigious Tau Beta Pi scholarship. He was also accepted into a Howard Hughes summer fellowship program at the University of Chicago, where he studied islet cell transplantation. Sean recently received the department's Undergraduate Research Award for this work, co-advised by Marc Garfinkel (University of Chicago) and BME Professor Connie Hall.

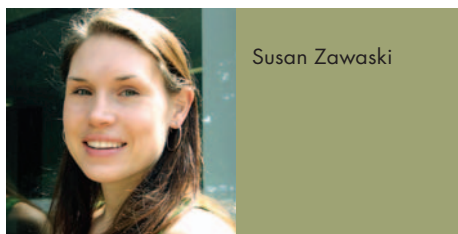


Sean Pitroda

Our engineering students are diversified, too. Emily Hammes and Daniel Crandall, seniors, both received prizes in the Creative Writing Contest sponsored by the Humanities department.

Our graduate doctoral program also has grown rapidly and now numbers 28 Ph.D. students. Our first doctoral student, Seda Kizilel, graduated this past December. She is now doing postdoctoral studies at University of Chicago, working on cell encapsulation techniques. Three of our graduate students have been awarded external funding to continue their studies. Susan Zawaski has received an NSF fellowship to explore the activation of the coagulation system in flowing blood; Astrid Zayas-Santiago is working under a State of Illinois

Minority Fellowship to study retinal cell growth, and most recently, Pat Caviness was awarded the Fieldhouse Research Fellowship for studies to investigate transport across the blood-brain barrier.



Susan Zawaski

Industrious faculty

BME faculty have been very busy laying the groundwork for the new department, developing the curriculum, designing the laboratories, testing the experimental modules, and, in our spare time, teaching the courses and writing grant applications and manuscripts for publications. The department has developed three track areas in the field: neural engineering, medical imaging, and cell and tissue engineering. Two laboratories were inaugurated this past academic year, and two more are being prepared for next year. They are state-of-the-art undergraduate labs devoted to providing students with hands on experience in the principles of biomedical engineering.

Derek Kamper, assistant professor, joined the department in fall 2005.

Significant strides in research

Faculty, in a short time, have become quite productive with respect to research efforts. BME was awarded first prize at IIT Research Day for most grant dollars per faculty member. This achievement was accomplished in large part through the continuing hard work of our more senior faculty: Phil Troyk, who continues his work in the area of prosthetic vision and robotic control by muscle, and David Mogul, who is involved in the study of mechanisms for controlling the abnormal electrical brain signals in epilepsy. Vince Turitto was named a

Congratulations

Kudos to Deniz Erdemir, Alfred Lee, and Ho Yeon, chemical and environmental engineering students, for their submission of *InterFace* as the new name for their department newsletter. Instead, the name was selected for its broader application to Armour College engineering news and issues.



Undergraduate Instrumentation and
Measurements Laboratory in Wishnick 319

member of the inaugural class of fellows of the Biomedical Engineering Society.

Positioned for continued success

In summary, BME has advanced significantly in the short time that it has existed. Students who are being attracted to BME are of the highest quality. The faculty have organized the curriculum to educate both undergraduates and graduate students in our key areas. Faculty are contributing significantly to these areas through their publications, and their work is being recognized by the peer-reviewed grants they have received. These are indeed exciting days for biomedical engineering at IIT!

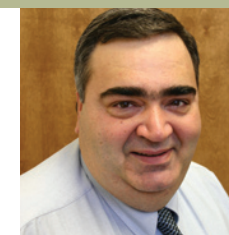


David Mogul

Chemical and Environmental Engineering

www.chee.iit.edu

Fouad Teymour, *chair*
Johnson Polymer
Professor



The ChEE department continues to build on its more than 100 years of history, advancing its goals through innovative research and excellence in education.

With the chemical engineering profession experiencing a rapidly spreading wave of "biologification," the department is taking steps to expand the role of biology in the ChEE curriculum. These steps include revising its chemical engineering program by adding new biology-focused modules and introducing a new degree program. A formal announcement outlining the scope of these plans is anticipated by the end of 2005.

Positive enrollment trends

The department's graduate enrollment has continued to grow for the third consecutive year. This increase was reflected this past spring semester in record enrollment in the Chemical Reaction Engineering graduate course. We continue our efforts to attract highly qualified domestic students to the Ph.D. program and to expand the professional master's degree enrollment, especially from the greater Chicago-area industry.

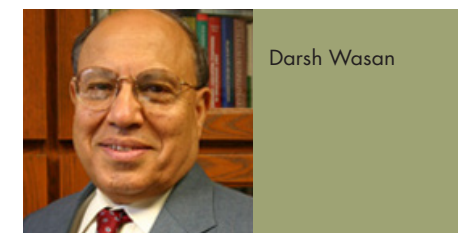
Our undergraduate enrollment, on the other hand, has been experiencing a decline for the past few years. However, this is a typical trend that is observed regularly as a result of the cyclic nature of enrollment/job placement dynamics. The numbers for fall 2005 enrollment are very encouraging and are indicative of a reversal of this trend. Our current initiative for diversification of the curriculum into biological engineering is expected to further accelerate the growth of our undergraduate enrollment.

An interesting related development is our success in recent years in placing our undergraduates in top-rated graduate programs; this *de facto* specialization seems to have naturally emerged from the rigor and high quality of education of our undergraduate program and our strong emphasis on undergraduate research.

Faculty and student honors

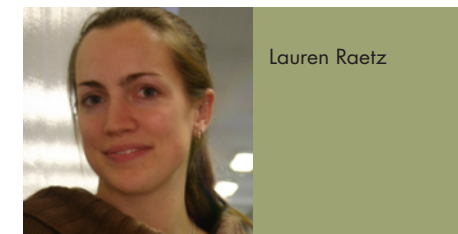
The department has continued its work in key research areas. In the 2004–05

academic year, faculty continued to receive awards marking significant levels of achievement in the profession. Darsh Wasan was inducted into the National Academy of Engineering in October 2004. He also received the Langmuir Lectureship Award from the American Chemical Society and received the Alpha Chi Sigma Award for Chemical Engineering Research at the American Institute of Chemical Engineers (AIChE) 2005 Annual Meeting. Hamid Arastoopour and Ali Cinar were named AIChE fellows (in 2004 and 2005, respectively). Demetrios Moschandreas was named fellow of the International Society of Indoor Air Quality and Climate. Dimitri Gidaspow received the 2005 AIChE Ernest W. Thiele Award and IIT's Sigma Xi Award for exemplary research, scholarship, and creativity.



Darsh Wasan

ChEE students also were lauded in other forums for important milestones and well-deserved awards. Lauren Raetz was the recipient of the AIChE Chicago Section 2005 Harry McCormack Award. Eric Tatara received the Sigma Xi Award for exemplary contributions as a graduate student.



Lauren Raetz

New faculty appointments

Toward the department goal of expanding faculty research expertise, two new assistant professors joined the ChEE depart-

ChEE News

2005 Peck Lecture and Alumni Awards

The 2005 Peck Lecture was held Friday, October 7, and featured Regina M. Murphy, University of Wisconsin–Madison. The first woman elected to deliver the Peck Lecture, Murphy provided an overview of her work in protein aggregation and targeted drug design titled "Proteins Behaving Badly: Protein (Mis)Folding and Aggregation."

Before the lecture, the Distinguished Alumni Awards were presented during a ceremony to Robert E. Boydston (CHE '49) and Lorenz T. Biegler (CHE '77).

Robert E. Boydston



Lorenz T. Biegler

Honorable Mention

Team members from IPRO 352—led by ChEE Professors Fouad Teymour and Hamid Arastoopour and Ph.D. student Nima Shahidi—chose three fellow students to compete with 400 other students for the United States Environmental Protection Agency's first P3 Award (People, Prosperity, Planet) in Washington, D.C. The IIT team's presentation, "Scrap Tire Recycling: Convincing Businesses to Integrate Inexpensive, Cutting-Edge Technology to Convert Tires into Various Construction Materials," received honorable mention.

ment—David Gidalevitz in January 2004 and Vijay Ramani in January 2005. Dimitri Hatzivramidis also joined the department as a research professor and was appointed director of the Particle Technology and Crystallization Center.

Alumni recognition

Ecevit Bilgili (Ph.D. CHE '01) received the Best Ph.D. in Particle Technology Award at the AIChE 2004 Particle Technology Forum awards ceremony. Bilgili, who conducted his Ph.D. research under the supervision of Hamid Arastoopour and Barry Bernstein, is currently working with Merck Research Laboratories in West Point, Pa.

Civil and Architectural Engineering

www.iit.edu/~ce



Jamshid Mohammadi
Chair and professor



The CAE department currently offers undergraduate and graduate programs in two major areas: Civil Engineering and Architectural Engineering. Started in 1995, our architectural engineering program received accreditation from ABET in 2003, becoming the 14th accredited program in the nation. We are pleased to report that, following several years of nationwide decline, there has been a steady increase in our enrollment during the past five years. This year marks our largest enrollment in recent years with a total number of new freshmen and transfer students reaching 50.

Our graduate programs have equally increased in size, with the Construction Engineering and Management master's program leading with an enrollment in excess of 60 students. Currently, the total enrollment in the CAE department comprises about 170 undergraduates and 120 graduate students, with faculty members numbering 11 full-time and 10 adjunct appointments. Included among these is the department's newest faculty member, Zongzhi Li, who will also serve as director of the Transportation and Infrastructure Systems Engineering Program.

Accomplished students

The increase in our student population is accompanied by a series of achievements by our students. In 2004, our students competing in regional and national bridge building contests received first and second places in several categories. Students were also proud to host the regional bridge building contest at IIT's Main Campus in April 2005.

Faculty recognition

The faculty continue their scholarly and professional activities. Ralph Muehleisen was recently elected to a two-year appointment to the core committee of the U.S. Green Building Council LEED rating system for commercial interiors. Jamshid Mohammadi was named a new editor of the ASCE *Practice Periodical on Structural Design and Construction*.

Research initiatives

The department embarked on a series of dialogues with the City of Chicago and Illinois Department of Transportation in an effort to establish research and educational partnerships with these agencies.

CAE faculty members also were involved in several interdisciplinary research studies. Jamshid Mohammadi and Adjunct Professor J. Jahedi worked with architect J. Michael Meissner on the development of an optimum design for structural support of the HYTRAN® suspended rapid-transit system. Eduardo DeSantiago teamed up with professors from the IIT MMAE department and from University of Illinois in a National Institutes of Health-sponsored study on dental material behavior. David Arditi and Jonathan Shi continued their innovative research in construction quality and productivity, simulations, and contract practices. Sid Guralnick, Jamshid Mohammadi, and graduate student Amy Kephart developed an innovative model for fatigue behavior analysis in metals.

Fundraising activities

The CAE department continued its fundraising activities, fueled by the dedication and hard work of the fundraising committee chairs (David Arditi and Burton Lewis), with major contributions by our alumni, including William Nash ('44), William Lavika ('67), Burton Lewis ('48), Laverne A. Miller ('48), John McLaughlin ('58), and Jeffrey Karp ('79). In the two years since its establishment, the Sid Guralnick Scholarship fund has increased to more than \$35,000.

Department goals

We will continue our commitment to achieve excellence in education, to increase our research productivity, to maintain a stable and solid enrollment and faculty size, and to modernize the CAE laboratories. As usual, we are confident that our friends and alumni will support us in achieving our goals, and we look forward to more productive years to come.

CAE News

The Seventh Annual Alumni and Friends of the Department of Civil and Architectural Engineering Appreciation Dinner was held on Friday, November 4, 2005, at the University Club of Chicago. It featured a discussion of Trump International Hotel and Tower by Allan T. Snyder of the Trump Organization.

InterFace, the newsletter of the Illinois Institute of Technology Armour College of Engineering, is published in cooperation with the Office of Communications and Marketing and the Office of Alumni Relations for alumni, faculty, and friends of the Armour College of Engineering.

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Electrical and Computer Engineering

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Mohammad Shahidehpour, chair
Bodine Professor

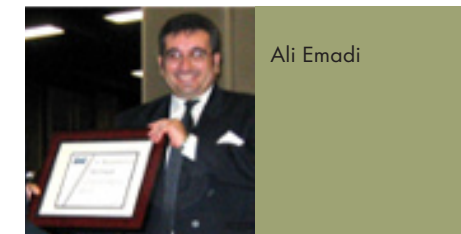


The ECE department accounted for the largest number of undergraduate and graduate students in Armour College in academic year 2004–2005. The current education and research program structure and highlights are provided below, along with plans for program expansion. With the philanthropic support of ECE alumni, the department strives to improve the quality of teaching and research laboratories, to increase enrollment, and to enhance external research funding within the next few years.

Program infrastructure

The research and education programs of the ECE department are currently represented by the following groups:

The **Power Engineering Group** (sustainability, transmission security, automotive and space power systems, power electronics) works closely with representatives of the electric power industry and currently manages the Electric Power and Power Electronic Center. The center recently received a grant from the Grainger Foundation to establish several undergraduate laboratories on renewable energy, special purpose electric machines, and automotive power systems.



Ali Emadi

Group members received several national research and education awards during 2004–05. Ali Emadi received the 2005 Richard M. Bass Outstanding Young Power Electronics Engineer Award of the IEEE Power Electronics Society and the 2005 Ralph R. Teetor Educational Award of the Society of Automotive Engineers. Remarkably, during academic year 2004–05, Emadi published three textbooks in the field. Emadi was promoted to associate professor and awarded

ECE Hosted Numerous Professional Societies

The ECE department was active in academic year 2004–05, hosting the following conferences at IIT:

2005 Conference on Properties and Applications of Magnetic Materials (May 9–11, 2005)

2005 International Energy Challenge (August 15, 2005)

2005 IEEE Vehicle Power and Propulsion (VPP) Conference co-located with the 2005 Society of Automotive Engineers Future Transportation Technology Conference (September 7–9, 2005)

contributions from corporations including Motorola, for enhanced ongoing R&D in wireless communications.

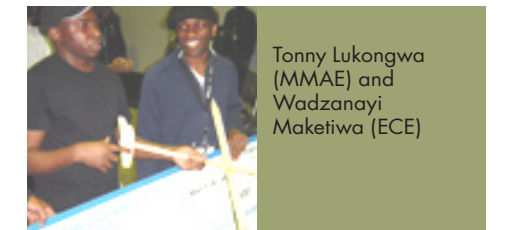
The **Electronics Group** (solid state fabrication, microwave electronics, bioelectronics) has received a number of grants from industry, government agencies, and national laboratories for research on and development of solid state devices, computational electronics applied to the simulation of semiconductor devices, and biological structures. The group is very active in microwave electronics and works closely with researchers in other institutions to secure government funding.

Student honors

Tau Beta Pi, the engineering honor society, named Chris Rosenthal Tau Beta Pi Fellow in support of his IIT graduate degree program in mathematics education. Tonny Lukongwa, an MMAE undergraduate, and ECE student Wadzanayi Maketiwa placed first in the Model Airplane Design Contest sponsored by the Boeing Company and held at the National Society of Black Engineers 2005 conference.

We welcome your comments

It is my pleasure to invite you to visit our new website (www.ece.iit.edu) and to learn more about our students and faculty activities at IIT. We would like to hear from you. Please do not hesitate to contact me if you plan to visit us in the near future or have any comments for improving our education and research programs.



Tonny Lukongwa (MMAE) and Wadzanayi Maketiwa (ECE)

Mechanical, Materials and Aerospace Engineering

www.mmae.iit.edu

Jamal Yagoobi
Chair and professor



Despite restrictions on U.S. visas, the MMAE department welcomed more international students in fall 2004 than in previous years. The department also welcomed 80 new freshmen, representing a consistent increase since 2002.

MMAE faculty members continue to actively conduct research, win research awards, and publish technical papers in highly reputable journals, all while motivating students with inspired teaching. Xiaoping Qian, an expert in computer-aided design and manufacturing, joined the department in the fall semester of 2004. Sammy Tin, specializing in materials and manufacturing, will be joining the department in spring 2006. Professor Rollin Dix retired this year, ending a 40-year career at IIT. He will truly be missed!

Program upgrades

The curriculum is regularly updated to reflect the needs within the engineering profession. An online master of engineering degree program, with a specialty in manufacturing, is being developed to enable international students to complete their degree from their home countries. Domestic students also will be able to take advantage of this program, which will be available in fall 2006.

At the undergraduate level, the department is constantly striving to improve its teaching labs, and introduced new cutting-edge facilities. This initiative was recently bolstered by IIT Board of Trustees member Robert Cornog (MET '61), who generously pledged his support for the renovation of the Advanced Mechanical Testing Unit of the Manufacturing Engineering Lab (for use by MMAE and CAE departments).

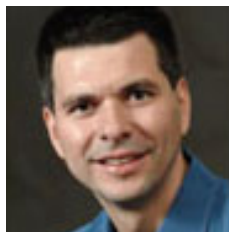
Manufacturing Innovation initiative

On May 20 and July 29, IIT hosted the first formal meetings of the National Coalition for Manufacturing Innovation, an Armour College of Engineering initiative led by the MMAE department. The coalition, established as a collaborative response to the urgent and critical need to restore the

competitive position of the U.S. manufacturing industry in a global economy, consists of 10 select nationally ranked universities.

Faculty achievements

During academic year 2004, MMAE faculty received a number of awards for excellence in research and education. Boris Pervan received the IIT Excellence in Teaching Award and the 2005 IIT Sigma Xi Award, which recognizes exemplary accomplishments in research scholarship and creativity by a faculty member. Pervan also serves as associate editor for the quarterly journal *Navigation*.



Boris Pervan

Herek Clack continues his research on "transport phenomena affecting the vaporization of fuel droplets during spray combustion at reduced scales," for which he received the prestigious National Science Foundation CAREER Award.



Herek Clack

Jamal Yagoobi received the inaugural IEEE Electrostatics Processes Committee Innovation and Creativity Paper Award recognizing his research in the area of electrohydrodynamic pumping based on the dissociation/recombination phenomenon. Yagoobi has been appointed associate editor of the *ASME Journal of Heat Transfer*.

Dietmar Rempfer and Pervan were awarded tenure in fall 2004 and fall 2005,

MMAE News

MMAE First Annual Alumni Day

The MMAE department is planning to hold its first MMAE Alumni Day on May 12, 2006. We would love to have a large number of our alumni attend this event. For further information, please contact Kim Barrett at barrett@iit.edu.

Alumni Recognition Award

Richard Wlezien (ME '74, M.S. '76, Ph.D. '81) and William S. Saric (ME '63, MECH Ph.D. '68) were named as recipients of the 2005 MMAE Alumni Recognition Award at the September 23, 2005, meeting of the department's External Advisory Board.



Richard Wlezien

William S. Saric

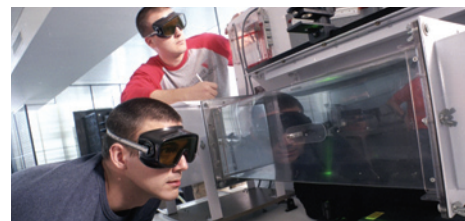
Top-Ranking MMAE Programs

For the second consecutive year, MMAE graduate programs in both mechanical and aerospace engineering were ranked among the top 50 (ME 49, AE 29) in the nation by *U.S. News & World Report America's Best Graduate Schools 2006*.

respectively. Rempfer also received a joint appointment with the IIT Applied Mathematics department.

Student awards

MMAE graduate students Mathieu Joerger and Samer Khanafseh finished second in the Institute of Navigation's 2005 Annual Autonomous Lawn Mower Competition. Tonny Lukongwa, an MMAE undergraduate, and ECE student Wadzanayi Maketiwa placed first in the Model Airplane Design Contest sponsored by the Boeing Company and held at the National Society of Black Engineers 2005 conference.



Particle image velocimetry technique is used to measure flow fields in the Fluid Mechanics Lab

Expanding Armour's Interdisciplinary Focus

Two institutes administered under the auspices of Armour College provide a combined platform for a broad array of cross-cutting research and education programs at IIT.

Energy and Sustainability Institute

IIT is positioning itself to become a leading national academic institution in addressing the intertwined issues of energy, security, and sustainable development. Established in 2004, the Energy and Sustainability Institute leverages our international recognition in energy, power, and environmentally related research and education, our leadership role in energy policy and forecasting, the original formulation of the Energy/Environment/Economics paradigm, and the current and emerging strengths of more than 30 faculty across several academic disciplines.

The institute uses a least-cost strategy to improve energy efficiency, enhance power reliability and security, minimize pollution, and continue the decarbonization of the global energy system. Institute faculty are currently involved in numerous research projects including renewable energy and hydrogen, fuel cells, sustainable buildings, small hydro-power systems, power and power electronics, hybrid electric vehicle development and modeling, energy conversion and process modeling, material conservation and recycling, energy policy, grid vulnerability modeling, and the "House of the Future" project.

In spring 2005, the institute began the first phase of the "House of the Future"—a living laboratory that will integrate clean energy, new materials, and appliances and products with the latest technologies to achieve sustainable design and functionality. The institute received start-up funding for the initial design of the "House of the Future" from Tellabs Foundation, and now seeks additional funding to implement construction and operation of this unique initiative.

Pritzker Institute of Biomedical Science and Engineering

The Pritzker Institute, directed by Professor Vincent Turitto, serves as an umbrella organization to enhance the biomedical science and engineering research activities on the IIT campus. This expansion will be achieved by developing and coordinating relationships and programs with traditional science and engineering departments within IIT as well as institutions outside IIT, especially Argonne National Laboratory

and University of Chicago. The Pritzker Institute is now focused on the development of three interdisciplinary biomedical research centers.

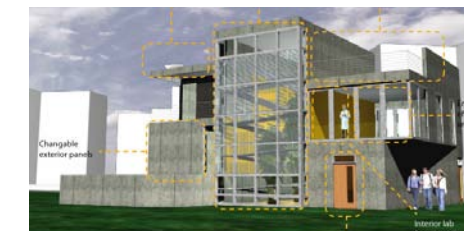


A slice of the human brain, as created by a new MRI imaging technique

Plans for the establishment of a joint Center for Integrative Neuroscience and Neural Engineering (CINN) were ongoing with University of Chicago for a number of years before its formal creation on July 1, 2005. Dedicated to providing a basic understanding of how the brain encodes and processes information to develop devices that remedy or cure human disease, the CINN involves faculty and students at University of Chicago and IIT, the staffs of research and development companies, and visiting scholars. The center was formally inaugurated with a day-long conference on October 15, 2005.

Established in spring 2004, the Medical Imaging Research Center (MIRC) is funded almost entirely from various peer-reviewed research grants from the National Institutes of Health.

The Engineering Center for Diabetes Education and Research, established in spring 2005, is the newest entity of the Pritzker Institute. Faculty from the departments of Biomedical Engineering, Chemical Engineering, and Mechanical Engineering work closely with faculty from various biomedical and medical disciplines from University of Chicago on education and research programs focused on the treatment and cure of diabetes and its complications.



House of the Future

Teaching Workshop

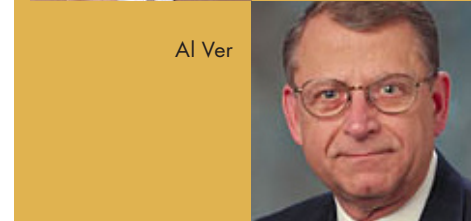
Under the leadership of Professor Candace Wark, associate dean of engineering, Armour launched its annual teaching workshop in fall 2003. Professor James Stice (M.S. '52, Ph.D. CHE '63), Chemical Engineering Department, The University of Texas at Austin, conducted the March 2004 "Effective Teaching Workshop" for new Armour faculty. Stice is widely recognized as an expert in engineering education and administration.

Distinguished Lectureship Series

Armour College has established a Distinguished Lectureship Series designed to address timely issues in engineering education. James Stice provided the 2004 ACE lecture titled "Studying the Tea Leaves: The Future of Engineering Education." The 2005 ACE lecture was presented by Al Ver (CHE '68), CEO of Automotive Components Holding Company (a subsidiary of Ford Motor Company), and featured an overview of "Ford's Innovative Approaches for Sustainable Manufacturing."



James Stice



Al Ver

ACE Scholars

The Armour College of Engineering (ACE) Scholars program was established in 2003 for the purpose of attracting high-caliber students to the undergraduate engineering program. Since its inception, 45 students from 25 area high schools have received ACE scholarships.

Considering Graduate School?

Are you considering continuing your education in a graduate program—to advance your career, to meet professional licensure requirements, to acquire in-depth specialization in your current field, or to specialize in a related engineering field? Let IIT help you achieve your goals. For assistance, contact Catherine Kozuch/O'Brien, Armour College graduate program coordinator, at 312.567.3043 or obrien@iit.edu.