

# ChE Newsletter

Summer 2005



## Arvind Varma

R. Games Slayter Distinguished Professor and  
Head, School of Chemical Engineering

Dear Chemical Engineering Alumni and Friends,

This year at the School of Chemical Engineering the environment is dynamic and the future is now. With the completion and dedication of the new addition to the Forney Hall of Chemical Engineering, we are beginning our transition. Yet even as our facilities change, our mission remains the same: to produce graduates of the highest caliber as they begin their careers or pursue further study. Our faculty members continue to be creative and productive as they investigate the frontiers of chemical engineering in the new century. The ChE addition project has been a part of the school's Strategic Plan—to provide a state-of-the-art teaching environment through interactive classrooms and teaching laboratories along with a first-class research environment. In the future, we plan to offer more in-class team exercises and problem-solving activities and more hands-on laboratory courses. As we recruit new faculty, we expect that they will be energetic teachers with aggressive research programs in new and emerging ChE areas that benefit society.



New Lecture Hall: President Jischke, Prof. Varma,  
Marilyn & Bob Forney, Dean Katehi at the dedication.

Two world-class researchers joined our faculty this year: Professors Rakesh Agrawal and R. Byron Pipes. Dr. Agrawal is the Winthrop E. Stone Distinguished Professor of Chemical Engineering and comes to Purdue after several years of outstanding service at Air Products and Chemicals, Inc. The first chair of Air products' Technology Board, he was instrumental in developing and driving their "New Waves" document that established some major growth opportunities for Air Products based on the emerging social and technological trends. Professor Agrawal is a member of the National Academy of Engineering, and additional information about him is given on page 8.

Prof. Pipes joins us as the John L. Bray Distinguished Professor of Engineering after serving as the Goodyear Professor of Polymer Engineering at the University of Akron since 2001. He has faculty appointments in materials engineering, chemical engineering, and aeronautics and astronautics. Professor Pipes is a member of the U.S.

continued on page 2 ▶

and Swedish National Academies of Engineering. Additional details about his background are also given on page 8.

This year, 325 undergraduates were enrolled in the school, and 70 of these students graduated this May with BSChE degrees. There are 119 students in advanced degree programs. ChE students continue to pursue exciting industrial experiences through co-op opportunities and internships. We are gratified that employers are pleased with the preparation and dedication of our students. It is a great time to be at the school!

Our faculty continues to be recognized for excellence. Several are conducting research in areas such as combinatorial catalysis, molecular simulations, novel energy sources, insulin delivery, and pharmaceutical engineering which have tremendous commercialization opportunities. This is an exciting way for faculty to see that the results of their research have applications beyond the ChE laboratories. Such achievements strengthen our programs and enhance the school's international reputation.

This is an exciting time for our school as we educate students for the future, engage in research, and build for the next generation.

With warm regards,



ARVIND VARMA  
R. Games Slayter Distinguished Professor and  
Head, School of Chemical Engineering



Forney Hall of Chemical Engineering

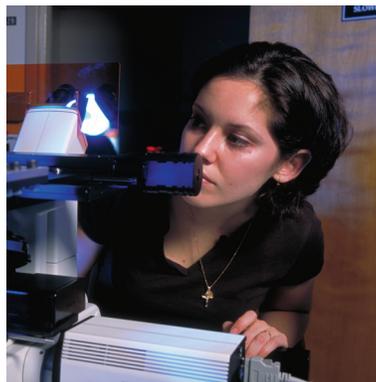
## U.S. News & World Report Rankings

The latest *U.S. News & World Report* rankings show that our school consistently ranks among the best at both the undergraduate and graduate levels. Specifically, the undergraduate program ranked 13th, while the graduate program ranked 12th in the nation. The latter rose from 16th the previous year.

# Contents

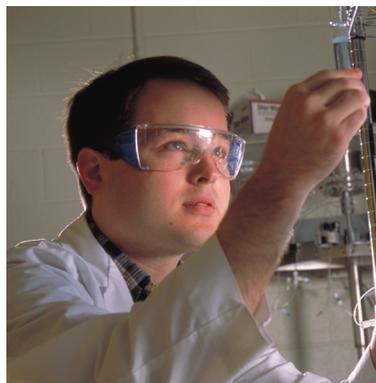
### Department Notes

Kudos for ChE Faculty	4
Purdue ChE Among Most Prolific U.S. Universities	5
2005 Kelly Lecture Symposium	6
New Faculty	8
Staff Updates	9
Prof. Albright: A Witness to History	10



### Alumni

Distinguished Chemical Engineering Alumni	11
2004 Outstanding Chemical Engineers Honored	12
Alumni Accolades	13
Alumni Notes	15
Donor List	20



### Students

Student News and Awards	25
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### Final Notes

Building Renovation Plans - Get on Board!	27
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Purdue University School of Chemical Engineering  
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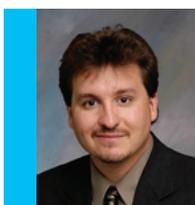
## Kudos for ChE Faculty



**Prof. Agrawal** has been selected to present the 2005 Institute Lecture at the AIChE annual meeting this Fall. This is the most prestigious of the general lectures presented at the annual meeting.



**Prof. Beaudoin** is the inaugural recipient of the annual Excellence in Teaching Award (2005), sponsored jointly by the Purdue Student Government and the Office of the Provost. The importance of this university-wide award is even more significant because it is decided upon entirely by students.



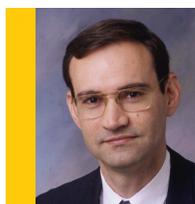
**Profs. Corti** and **Thomson** were promoted to the rank of Associate Professor.



**Prof. Sangtae "Sang" Kim** delivered the 2005 Barnett F. Dodge Lecture at Yale University, and the 2005 Benton Lecture at the University of Florida. He also gave a presentation to the FDA Science Board Advisory Committee on the topic of "IT Issues in the FDA's Critical Path Initiative" and its linkages to the NSF's past, present and future investments in cyber-infrastructure.



**Prof. Ramkrishna** was awarded the 2004 Thomas Baron Award from the AIChE, the 2005 Purdue Engineering Award of Excellence in Research, and received an Honorary Doctor of Science degree from the University of Minnesota in September 2004, also delivering the Fredrickson Lecture on this occasion.



**Prof. Ribeiro** is the 2005 recipient of the New York Catalysis Society's Excellence in Catalysis Award, sponsored by ExxonMobil Research and Engineering Company. He was also elected as a Director of the AIChE Catalysis & Reaction Engineering (CRE) Division for a three-year term. He joins Linda Wang, Mike Harris, and Steve Beaudoin who are currently serving as Directors of other AIChE Divisions.



**Prof. Varma** delivered the 2004 Johansen-Crosby Lecture at Michigan State University.



**Prof. Venkatasubramanian** received the 2004 Shreve Award for Outstanding Teaching from the School of Chemical Engineering. He was also given the Teaching for Tomorrow Award, one of three senior faculty awarded in the entire university. Purdue also recognized him with the Seed for Success Acorn Award. Venkat also delivered several keynote addresses worldwide.



**Prof. Wankat** was named a Walter Robb Senior Education Fellow by the NAE. He received the ASEE Lifetime Achievement Award in Chemical Engineering Pedagogy for his "career-spanning contributions to chemical engineering education." He was also honored with the Engineering Award of Excellence in Mentoring, and the 2005 Shreve Awards for Outstanding Teaching.

## Purdue ChE Among Most Prolific Universities

Of the top 100 federally funded U.S. universities, those below contributed the greatest number of papers to the field of chemical engineering over the period from 1999-2003. This assessment is based on each university's share of the 46,301 papers entered into the Thomson Scientific database from Thomson-indexed chemical engineering journals between 1999 and 2003.

Rank	University	Number of Papers 1999-2003
1	Purdue University	183
2	Pennsylvania State University	177
3	University of Minnesota	171
4	Texas A&M University	155
	University of California, Berkeley	155
5	University of Delaware	142

## 2004 Kelly Lecture



**William B. Russel**, the A.W. Marks '19 Professor in the Department of Chemical Engineering and Dean of the Graduate School at Princeton University, was the 2004 Kelly lecturer. He joined the faculty at Princeton in 1974 after BA and MChE degrees from Rice University (where he also played baseball), a PhD from Stanford, and a NATO Postdoctoral Fellowship in the Department of Applied Mathematics and Theoretical Physics at Cambridge University. At Princeton he has served as chairman of Chemical Engineering and director of the Princeton Materials Institute and pursues research in the field of complex fluids. His re-

search ranges from studies of the crystallization of colloidal dispersions (akin to the formation of opals) in microgravity aboard the Space Shuttle to laboratory experiments on the drying and cracking of paint. He is the author or coauthor of two books, the Dynamics of Colloidal Systems and Colloidal Dispersions. He has received the Walker Award from the AIChE, the Bingham Medal from the Society of Rheology, and is a member of the National Academy of Engineering and the American Academy of Arts and Sciences. Dr. Russel's lectures were titled "The consequences of surface tension in latex film formation: fluid flow, particle deformation, and cracking," and "Should chemical engineering be at the forefront of interdisciplinary research and education?"

## 2005 Kelly Lecture Symposium - Celebrating 40 years

To highlight the 40th anniversary of the Kelly lectures and the opening of the addition to Forney Hall last Fall, a special Kelly Symposium was held during April 1-2, 2005. Five distinguished speakers, specialists in different subfields of chemical engineering, highlighted the amazing strides in research and discovery in the frontiers of chemical engineering.



**Frank S. Bates**  
(University of Minnesota)

Frank S. Bates is the Distinguished McKnight University Professor and Head of Chemical Engineering and Materials Science at the University of Minnesota. Professor Bates conducts research on a range of topics related to polymers, with a particular focus on the thermodynamics and dynamics of block copolymers and blends. In 1988 Bates was named a Distinguished Member of the Technical Staff at Bell Labs, in 1989 he received the Dillon Medal and in 1997 the Polymer Physics Prize, both from the American Physical Society where he is a Fellow. He won the 2004 David Turnbull Lectureship Award from the Materials Research Society, and in 2002 was elected to the National Academy of Engineering. Prof. Bates spoke on "**Macromolecular Surfactants.**"



**Alexis T. Bell**  
(University of California-Berkeley)

Professor Bell is widely known for his research, both experimental and theoretical, in the field of heterogeneous catalysis. He has published over 460 refereed journal articles and received many honors for his research contributions. These include the Curtis W. McGraw Award from ASEE; the Professional Progress and R. H. Wilhelm Awards of AIChE and the ACS Award for Creative Research in Homogeneous or Heterogeneous Catalysis. He is a member of the National Academy of Engineering. Prof. Bell spoke on "**Defining Catalyst Reactivity and Selectivity at the Level of Isolated Active Sites.**"



**Ignacio E. Grossmann**  
(Carnegie Mellon University)

Ignacio E. Grossmann is the R. R. Dean University Professor of Chemical Engineering, and former Department Head at Carnegie Mellon University. His research interests are in the areas of mixed-integer and logic-based optimization, process synthesis, planning and scheduling of batch and continuous processes, supply chain optimization, and optimization under uncertainty. He has authored more than 240 journal papers, and the textbook "Systematic Methods of Chemical Process Design." He is a member of the National Academy of Engineering, an associate editor of AIChE Journal and member of editorial boards of many journals. His major recognitions include the 1994 Computing in Chemical Engineering Award of the CAST Division of AIChE, the 1997 William H. Walker Award of AIChE, Top 15 Most Cited Author in Computer Science by ISI, and 2003 Computer Society Prize of INFORMS. Prof. Grossman spoke on **"Research Challenges in Process Systems Engineering: Product Discovery and Design, Enterprise and Supply Chain Optimization, Global Life Cycle Assessment."**



**Michael L. Shuler**  
(Cornell University)

Michael L. Shuler is the James and Marsha McCormick Chair of the Department of Biomedical Engineering, as well as the Samuel B. Eckert Professor of Chemical Engineering in the School of Chemical and Biomolecular Engineering at Cornell University. He is also a NYSTAR Distinguished Professor (2001-2006). Shuler's research is focused on biomolecular engineering and includes development of an "artificial" animal (in vitro) for testing pharmaceuticals and chemicals for toxicity, production systems for useful compounds such as paclitaxel from plant cell cultures, production of foreign proteins using a wide variety of genetically engineered hosts, and computer models of cells relating physiological function to genomic structure. Shuler has co-authored a popular textbook in bioprocess engineering. He has been elected to the National Academy of Engineering and the American Academy of Arts and Sciences, and has received numerous other awards for his research and teaching. Prof. Shuler spoke on **"Animal-On-A-Chip: Using Chemical Engineering To Bridge Molecular Mechanism to Human Physiology."**



**James Wei**  
(Princeton University)

James Wei has been the Pomeroy and Betty Perry Smith Professor of Chemical Engineering at Princeton since 1991. From 1991-2002 he was also Dean of Engineering and Applied Science. He has published more than 100 papers on research in chemical kinetics, catalysis, reaction engineering, and cancer chemotherapy, and he has co-authored seven books. His recent research interests have been in molecular structure-property relations, especially in relation to product engineering. This involves predicting molecular properties such as densities and boiling points from molecular structure, preferably from quantum mechanics and more often from correlations. Among his awards are the ACS Award in Petroleum Chemistry; the Professional Progress, William H. Walker, Warren K. Lewis and Founders Awards from AIChE; Member of the National Academy of Engineering and the American Academy of Arts and Sciences. Prof. Wei spoke on **"Engineering in a Post-Industrial World."**

## New Faculty



**Dr. Rakesh Agrawal**

**Dr. Rakesh Agrawal** is the Winthrop E. Stone Distinguished Professor of Chemical Engineering. Agrawal comes to Purdue after several years of distinguished service at Air Products and Chemicals Inc. The holder or co-holder of 116 U.S. patents and nearly 500 non-U.S. patents, he has made truly extraordinary contributions to the development of gas liquefaction and cryogenic separation technologies, with more patents than any individual in Air Products' history. These patented ideas have been applied to nearly 100 operating plants with total capital expenditure for these

plants in excess of \$1billion. He also has 64 published papers in the areas of gas separations, membranes, distillation and other separation and liquefaction processes.

Agrawal is the recipient of several awards from Air Products and the American Institute of Chemical Engineers. He was the youngest recipient ever of Air Products' prestigious Chairman's Award, and he received the Presidential Citation for Outstanding Achievement Award from the University of Delaware in 1995, AIChE's 1998 award for Excellence in Industrial Gases Technology and its Separations Division's Clarence G. Gerhold Award in 2001, the Institute of Refrigeration's J & E Hall Gold Medal in 2004, was Regents' Lecturer at the University of California, Los Angeles, and was elected to the National Academy of Engineering in 2002.



**R. Byron Pipes**

**R. Byron Pipes**, the John L. Bray Distinguished Professor of Engineering, joined Purdue after serving as the Goodyear Professor of Polymer Engineering at University of Akron since 2001 (he has faculty appointments in materials engineering, chemical engineering, and aeronautics and astronautics). From 1993-1998 he was president of Rensselaer Polytechnic Institute and the provost, vice president for academic affairs and dean of the College of Engineering at the University of Delaware from 1985-1993. A member of the U.S. and Swedish National Academies of Engineering,

Pipes, who is a pioneer in the field of composite materials processing and analysis, is currently working on research in the application of nanotechnology to engineering disciplines including aerospace, composite materials and polymer science and engineering. He has active programs in the study of the advanced manufacturing science for composite materials. He is also engaged in the development of Internet-based collaborative research involving scientific instruments shared by research groups located in academic, corporate and government scientific centers worldwide.

## Staff Updates

New administrations are often accompanied with many organizational changes.

**Prof. Ramkrishna** is now the associate head. **Prof. Franses** is director of the undergraduate program while **Prof. Basaran** assumes the same responsibility for the graduate program.

In the main office, upon **Carolyn Blue's** retirement, **Rita Hillman** assumed the role of administrative assistant to the head.

**Melissa Lane** is now the secretary and receptionist for the main office. **Jenni Layne** has also joined the secretarial staff.

**Deb Bowman** is now graduate office administrator/counselor. With the departure of George Bailey, **Eric Pratt** has been named computing facilities manager for ChE.

**Shari Schrader** is the new director of development and alumni relations. She joined Purdue in August 2003 as director of development for the School of Nursing and the School of Health Sciences.

**Cristina Farmus** is the new business manager. She earned her MBA degree from Krannert in May 2004. Previous to that she

worked as an assistant manager for Cambric Corporation, a global engineering service provider.

**Amy Hayden** joined as account clerk, and **Barbara Hubner** as payroll clerk, in the business office.

**Wayne Muench**, director of instructional laboratories and chair of the Chemical Engineering Safety Committee, will work with the Purdue-wide safety programs to develop an integrated safety emphasis across the college.



## ChE Alum Named Homeland Security Director for Indiana

### J. Eric Dietz

(PhD '94)

Director of Indiana's  
Department of Homeland Security  
Purdue University

J. Eric Dietz (PhD '94) was chosen by Indiana governor Mitch Daniels to be the first director of Indiana's Department of Homeland Security. Dietz, a native of Michigan City and recently retired from the U.S. Army after a 22-year career, was the managing director of the Purdue Homeland Security Institute until becoming the associate director of the e-Enterprise Center at Purdue's Discovery Park. Under the governor's proposed reorganization of homeland security, Dietz will adopt the duties of the director of the state's counterterrorism and security council, thus eliminating that position. One of his chief duties in his new job will be to form a strategy for how emergency workers in Indiana should respond to a terrorist attack. Dietz predicted that his association with Purdue will prove a great asset.

## Prof. Albright: A Witness to History



For **Prof. Lyle Albright** the year 2005 represents a double milestone in his long and illustrious career. Not only is this his 50th year at Purdue, but it is also the 60th celebration of his participation in the Manhattan Project. After working for Dow Chemical, DuPont, and Colgate-Palmolive after graduation, he joined the University of Oklahoma in 1951, and then Purdue in 1955 as an associate professor. Still active today, he has had a stellar career in teaching and research (surpassing R.N. Shreve in the number of theses he has supervised!), and many of his former students are executives in industry or university professors.

He was recruited in mid-1944 to work with uranium to create atomic energy. More than 120,000 people, including construction and administrative employees, worked on the project. According to Albright, perhaps 1,000 of them knew the project's true goal. The Manhattan Project's legacy is still evident, primarily in nuclear reactors that provide electricity and applications in nuclear medicine. His brief memoir of that time is available on the School's website at [https://engineering.purdue.edu/ChE/News\\_and\\_Events/News/Lyle\\_web.htm](https://engineering.purdue.edu/ChE/News_and_Events/News/Lyle_web.htm)

## 2004 & 2005 Distinguished Chemical Engineering Alumni



**Emily M. Liggett**

President, Liggett Associates  
(BS '77)

"Purdue and engineering have enabled me to accomplish many goals," Liggett says, "and I feel a responsibility to give back and to help others do the same. When I was an Indiana farm girl in junior high and high school, I didn't dream I'd live in so many countries and be a part of so many cool new technologies. Purdue was a big part of making that possible."  
"The application of engineering is the ability to solve problems," Liggett says, "and to think broadly about an issue or an opportunity, to think of multiple ways to approach a situation. So when I became involved in international acquisitions, there were a number of skills that came into play, one of which is the discipline and rigor of being an engineer."

Liggett, who serves on the College of Engineering Dean's Advisory Committee and the Burton D. Morgan Entrepreneurship Advisory Council, was named an Outstanding Chemical Engineer in 1999.

"The dreams you have in the laboratory may not look like they will happen," says Lloyd Robeson. "Twenty years later it may not be exactly what you expected at the time, but it's happened."

The holder of 92 patents, Robeson has expanded the fields of polymer blends and engineering. One of Robeson's most important inventions is a polymer that can be used in the emergency room and industry and that has seen playing time as a shield for injured football players. A moldable compound that melts in hot water to a putty-like consistency, Robeson's invention can be used to splint broken bones or reinforce the spine of babies born with spina bifida, a common birth defect in which the spine does not close properly. When used on burn patients, Robeson's compound can reduce scarring by 95 percent. "That's the invention I really feel good about," Robeson says, "because it has helped a lot of people."

With more than 90 scientific publications, one co-authored book, and another book on polymer blends in the making, he is a member of the National Academy of Engineering.



**Lloyd M. Robeson**

Principal Research Scientist,  
Air Products and Chemicals  
(BS '64)

"I knew I wanted to become a chemical engineer in about the eighth grade," Davidson says. "I was attracted to the science of it, but also the engineering aspect. Ever since I was a small child, I was either taking something apart or putting something together."

"The engineering background helps one to understand the technical complexity of the projects—what we are physically trying to do," Davidson says. "Then you combine that with management training, which helps one understand the business side of it. I enjoyed project management, and that began to move me away from doing specific engineering work to projects involving management and working with people."



**Charles D. Davidson**

President, CEO, Chairman  
Noble Energy Inc.  
(BS '72)

## 2004 OChE: Outstanding Chemical Engineers Honored



**Joseph Alford**  
Engineering Advisor,  
Eli Lilly, (BS '66)

Joseph Alford is an Engineering Advisor in Eli Lilly's Engineering Technology Center. During his 32-year Lilly career, he has been a leader in advancing the state of the art of bioprocess analytical instrumentation, automation, modeling, process control, and data mining technologies and applications. Lilly has recognized Joe's contributions by presenting him the career Engineering Excellence Award, the Lilly Research President's Award (for scientific innovation and achievement), the Lilly Research "Changing the World Award," and the Lilly Global Computer Systems Solution Achievement Award. He was also honored with the Douglas H. Annin Award from the Instrumentation, Systems, and Automation Society (ISA) for his achievements in using advanced technologies in automated control applications, and in 2003, was elected Fellow of ISA. He has also received the AIChE Computing Practice Award.

Susan Hardman is now Vice President, Corporate Marketing, for Intersil Corporation, responsible for central applications, marketing communications, customer service, business development and investor relations. (Intersil provides high performance analog semiconductors to multiple markets.) Prior to this she was the Vice President of Corporate Marketing for Exar Corporation, a company that develops innovative analog and mixed-signal integrated circuits for communication applications. As vice president/general manager for the Interface Products Division, she was responsible for driving the division's profit/loss, product strategy, and product development and support. Last year, the division's revenue grew over 30 percent and delivered 33 percent operating profit. For several years, she has been a spokesperson for the company positioning and presenting Exar as a solid investment opportunity to Wall Street fund managers.



**Susan Hardman**  
Vice President, Corporate Marketing  
Intersil Corporation, (BS '83)



**Rick Roberts**  
Senior Vice President of  
Manufacturing,  
Chevron Phillips Chemical  
Company, LP (BS '76)

Rick Roberts is the Senior Vice President of Manufacturing at Chevron Phillips Chemical Company LP, headquartered in The Woodlands, Texas. As Senior Vice President of Manufacturing, he has a key role in maintaining and upgrading Chevron Phillips Chemical's U.S. asset portfolio. His attention is focused on assuring that the company's 10 major U.S. manufacturing facilities meet the highest safety, environmental, and efficiency standards. In addition, he consults with the company's international plants on operating issues, cost optimization, and on improving the quality of the company's petrochemical and plastic products. In 1980, he received an MBA from Pepperdine University. Roberts is currently on the board of the Texas Chemical Council (TCC) and is a senior member of the American Institute of Chemical Engineers (AIChE).

## Alumni Accolades

### **Kristi Anseth**

(BS '92; PhD, U. of Colorado, '94)

Tisone Professor and Howard Hughes Medical Institute Investigator and Professor of Surgery, University of Colorado

Kristi Anseth received the 2004 Alan T. Waterman Award from the National Science Foundation. This Award is the highest honor awarded by the National Science Foundation. According to the official announcement, "Her award is based on groundbreaking work in new biomaterials that are engineered to help the body heal itself. The availability of these new materials, as opposed to the use of synthetic body parts, may lead to sooner-than-expected developments for treating knees, hips and even heart structures in ways that will contribute to faster healing and a quicker return to a better quality of life for the injured and temporarily disabled. Her research articles, published in more than 80 journals, have been cited about 1,300 times."

### **Christopher Bowman**

(BS '88, PhD '91)

Department Chair of Chemical and Biological Engineering, University of Colorado

Christopher Bowman, the department chair of Chemical and Biological Engineering at the University of Colorado, received the Society for Biomaterials 2005 Clemson Award for Contributions to the Literature. The award was established in 1974 to recognize significant contributions to the literature on the science or technology of biomaterials.

Dr. Bowman was recognized for his "pioneering contributions to the basic understanding and development of novel dental restorative materials." The importance of his work was evidenced by systematic publications in technical journals, significant critical analyses and/or reviews, the frequent citations and referencing of his contributions by independent writers, and his publication of major works such as monographs, textbooks, bibliographies, and edited communications. This prestigious award is presented to one individual each year and illustrates his history of leading new directions at the interfaces of interdisciplinary research.

### **Jay V. Ihlenfeld**

(BS '74, PhD (Wisconsin) '78),

Senior Vice President, Research and Development at 3M

Jay V. Ihlenfeld, Senior Vice President, Research and Development at 3M, reorganized and reinvigorated 3M's R&D. The plan he put into place was to disband 12 corporate technology centers that were built over the past 10 years and concentrated in St. Paul, Minnesota. About 400 scientists with expertise in technologies such as adhesives, precision coatings, and microreplication moved into research units connected to 3M's businesses. The remaining 500 of the 900 technology center scientists moved into corporate research, where their focus is on advanced materials, processes, and systems, leading to a more targeted strategy rather than a shotgun approach to new product development.

continued on page 14 ▶

## **Anthony G. Mikos**

(MS '85, Ph.D, '88)

J.W. Cox Professor of Bioengineering and  
Professor of Chemical Engineering at Rice University

Anthony G. Mikos was named the recipient of the 2005 Marshall R. Urist Award of the Orthopaedic Research Society. This prestigious award recognizes exceptional contributions in the field and is given to investigators who have established themselves as cutting-edge researchers in tissue regeneration.

## **Don Miller**

(PhD '84)

Director of Oncology  
Wyeth-Ayerst

Don Miller was selected as a "Hero in Chemistry for 2004" by the ACS. He was recognized for his pioneering accomplishment of developing the world's first antibody targeted chemotherapeutic agent--Mylotarg (successfully delivering one of the most toxic agents known to man). For seven years he headed a team, which ranged in size from 15 to 35 scientists from all disciplines in the company along with an alliance partner in England, from late-discovery stage through to FDA approval. ACS initiated this award in 1996 to celebrate the successes of industrial scientists whose chemical work resulted in a successful commercial product that improves people's lives.

## **Let's keep AIChE strong...**

This is just a reminder that all of us need to keep AIChE strong. Don't forget to pay your 2005 AIChE dues, or to rejoin and volunteer if you have been inactive. Visit the website [www.aiche.org](http://www.aiche.org) or call 800-242-4363.

## Alumni Notes

### 1930s

**E.R. Hayes**, ('31) earned his M.D. in 1934 and was a clinical professor of internal medicine at the University of Texas Health Science Center in Dallas. His career also took him through the army and later to the University of Minnesota's Department of Medicine.

**George I. Calvert**, ('34) writes "My main achievement so far is living to the age of 94. After a fashion, I still operate my ranch (Eagle Bluff Ranch, San Antonio, TX)...."

**George Perkins** ('37, PhD '40) is a consultant and founding board member for Addiction Recovery Associates of Kentuckiana in Louisville, KY. He is a member of the national Faces and Voices of Recovery campaign committee. He organized a Recovery Ambassadors Workshop for September 18, 2004.

### 1940s

**Paul Riffin** ('40) is active in Lexington town activities and an active student at Harvard Learning in Retirement.

**Harvie M. Merrill** ('42) writes that they are moving to Winter Park, FL to be closer to their two daughters. Before retiring he was the chairman and CEO of Hexcel Corporation.

**Emil G. Nasser** ('42) writes that he and Lelia, of Houston Texas, "celebrated their 60th wedding anniversary in August 2004 with a family reunion and a cruise."

**Ed Czenkusch** ('43, MS '48) is retired from Phillips Petroleum where he worked in R&D.

**Robert F. Plank** ('45) writes that he is retired and does some consulting in oil and gas for investors.

**Robert M. Mendelson** ('47, MS '48) retired from RCA in 1983 and then consulted for five years. The owner of two patents he now lives in Murray Hill, NJ.

**Michael Kovalow** ('48) lives in Portage, IN and is retired from U.S. Steel.

**Nicholas A. Gimber** ('49) worked for Union Carbide for 29 years, for Petronas one year, and four years for the Texas Air Control Board. He was the director of the Gulf Coast Waste Disposal Authority. His affiliations included honoraries such as Tau Beta Pi, Omega Chi Epsilon, and Phi Lambda Upsilon, as well as professional societies.

**Duane F. Hogsett** ('49, MSChE Oklahoma State, '62) writes that he's been retired since 1992 and does some traveling. He visited with Bob and Marilyn Forney in the Galapagos.

**Per Hallvard Nilsen** ('49) retired in 1992 after 43 years in R&D, production, and management. He was member of the city council of Porsgrunn from 1975 to 1991, and of Lillesand from 1999 to 2003.

### 1950s

**Lawrence Paulsen** ('50) writes, "after failing to find 'my place' in the corporate world, I discovered my true calling was mechanical engineering. I passed PE exams in both chemical and mechanical. The chemical was much tougher. For 32 years I was a practicing consulting engineer, a one-man think tank... My education at Purdue helped me get my foot in the door to a life in engineering."

**John L. Myers** ('51), now retired, was the mayor of King City, CA for 12 years and on the Mee Memorial Hospital Board of Trustees for 22 years. In 2000, he and his wife were Chamber of Commerce Citizens of the Year.

**Ray W. Snell** ('51) retired as a project engineer with the design division of DuPont in 1988. He writes from Asheboro, NC, that he spends his time traveling and doing volunteer work for his church and the Red Cross.

**Peter Abbrecht** ('52) is a medical expert with the Office of Research Integrity for the U.S. Department of Health and Human Services.

**James J. Blazek** ('52), who retired from W. R. Grace

continued on page 16 ▶

as V.P. Development of Davison in '94, has written numerous articles for various petroleum publications, and held several patents—cracking catalysts and zeolites.

**Donald E. Hannemann** ('52, MS '57), formerly the director of research for Amoco, has taken on the role of historian in his "A History of Amoco Chemical Co."

**Vern W. Weekman** ('53, PhD '63) was named recipient of the 2004 Amundson Award of ISCRE (International Symposia on Chemical Reaction Engineering).

**Robert F. Hill** ('53, MS '54), who retired in 1989, provides a recap of his career. After graduation and some further training, he joined the Naval Reactors Branch under Admiral Rickover and did experiments aboard the Nautilus involving reactor water chemistry and programs on "new alternate control rod materials and new fuel element fabrication techniques for future nuclear submarine reactors." In 1957 he joined GM Research Laboratories, and in 1966 was promoted to Senior Staff Research Scientist and Supervisor of the Radioisotope Lab at the GM research labs and Radiation Safety Officer for the GM Technical Center. Along with his 18 technical publications and 5 U.S. patents, in 1995 he received the Arch T. Colwell Merit award.

**Dean Owen Harper** ('56, MS Phys Chem, '59, PhDChE, '67 U of Cincinnati) is Professor Emeritus of the Chemical Engineering department at the University of Louisville. He retired after 34 years at U of L, which followed six years at West Virginia University.

**Col. Richard Stephans, Ret.** ('57, MSME, NM State U) is a senior consultant for ARES Corporation in Las Vegas. He finished five years as board member of the Board of Safety Professionals. In June 2004 Wiley published his book "System Safety for the 21st Century."

## 1960s

**James R. Julian** ('63) is president of Employer Benefit Services, Inc. in Indianapolis. He retired from the Lincoln Financial Group and started the new consulting business.

**William (Bill) Cobb** ('65) is vice president of Manufacturing for Vulcan Chemicals in Birmingham, AL.

**Leonard Bernstein** (MScHE '66, PhD '69) is president of L.S. Bernstein & Associates, LLC. He has been selected as a convening lead author for the chapter on greenhouse gas emissions from industry in the intergovernmental panel on climate change's fourth assessment report.

**James A. Shaevel** ('66, MS '67) retired from Union Carbide/Dow Chemical after 35 years. His positions included plant operations, plant management, and process R&D.

**James L. Smith** ('67) is a captain in flight operations for United Airlines.

**William E. Smith** ('69) retired after 33 years with Eli Lilly in as vice president of global manufacturing services in Indianapolis.

## 1970s

**Robert Salloum** (MS '66, PhD '70), the holder of four patents, retired after 35 years at General Motors.

**Michael Lappa** ('71) is vice president for sales and marketing for the Pulp & Paperboard Division of Potlatch Corporation in Walnut Creek, CA.

**Thomas Q. Henry** ('72), who received the Indiana University School of Law's 2002 Distinguished Alumni Award, is now a partner in his law firm of Woodward, Emhardt, Moriarity, McNett, and Henry. He has also taught intellectual property law at I.U. School of Law-Indianapolis.

**Ray Mentzer** ('74) is US LNG Regulatory Manager for Exxon Mobil. He returned to Houston after a four-year assignment in London managing Exxon Mobil's upstream safety, health environment and regulatory activities in Europe and West Africa. He is currently involved in permitting of several US LNG regasification terminals.

**Tse-Chuan Chou** (PhD '75) is a director of the Engineering & Technology Promotion Center of the National Science Council in Taiwan. He was also named a distinguished professor of National Cheng Kung University.

**Lon Offenbacher** ('75) is a business line executive (cockpits & interior systems and integrated closure systems) with Delphi Corporation in Troy, MI.

**William Bussing** ('78) is now Director and on the Board of the New Zealand Refining Company Ltd. Prof. Peppas' first graduate student, Bill joined Amoco in Chicago in 1978 and has held positions in refining, finance, and planning in the USA and Singapore.

## 1980s

**Jane S. Showalter Thomas** ('80) is a senior compliance program manager for ENSR International in Anchorage.

**Andy J. Steinhubl** ('80) is a partner with Booz Allen Hamilton in Houston.

**Mark W. Cheesman** ('81) is senior environmental advisor for CITGO Petroleum in Corpus Christi, TX.

**Michael Gzybowski** ('83) is a senior attorney in the patent department of Butzel Long in Ann Arbor, MI. He and Maya Noel were married in 2002 and have two new sons, Thomas and James.

**Sharron D. Hunter-Rainey** ('83), a co-inventor of three patents, completed her PhD in Business Administration from Duke University.

**Donald R. Miller** (PhD '84) was awarded the prestigious "Heroes of Chemistry" Award of the American Chemical Society. Don was recognized as the leader of the Wyeth-Ayerst group that developed Mylotarg, the first drug specifically approved to treat relapsed acute myeloid leukemia (AML) patients. The Heroes of Chemistry Award is one of the most prestigious awards within the pharmaceutical industry.

**David R. Auffenberg** ('85) works for Goodyear Tire

& Rubber Company in Race Tires Program as a team leader for Drag and Sports Car Tires.

**Mark Chrisman** ('85) is director of Global Sourcing for Great Lakes, Corp. in the Flame Retardants and Brominated Performance Products division.

**Brian T. Tulloh** ('85) is vice president of retail strategy and analysis for TXU Energy in Dallas.

**David A. Rockstraw** ('86, PhDChE Oklahoma, '89; PE) is an associate professor of chemical engineering at New Mexico State University. He joined academia in 1995 after more than eight years in industry with DuPont, Conoco, Ethyl, and Kraft. He is working on a DOE-funded study on the solid phase kinetics of potassium ferrate use to oxidize sulfides. He was the Chemical Engineering Outstanding Professor in 2000.

**Theodore J. Kobus III** ('87) was elected a shareholder in the law firm of Marshall, Dennehey, Warner, Coleman & Goggin in Philadelphia.

**Marc S. Hochman** ('88, MS '93) is vice president of global operations at A.T. Kearney Inc. in New York.

## 1990s

**Candee (Cline) Krautkramer** ('90) was promoted to research technician leader for the Adult/Feminine Care Product and Technology Development with Kimberly-Clark Corp.

**John R. Jones** ('91) is a director for regulatory management for Reilly Industries in Indianapolis.

**Paul L. Manak** ('91) is senior process control engineer for the McKee Refinery of Valero Energy Corporation in Sunray, TX.

**Robert Bryan White** ('91) is a consultant with KBC Advanced Technologies in Houston. He is the project manager at the REPLAN oil refinery in Paulinia, Sao Paulo, Brazil.

**Carolyn L. (Stephan) Petersen** ('92) is doing

continued on page 18 ▶

consulting work for the EPA through her former employer while doing home schooling with her children.

**Steve Sanderson-Zimmer** ('92) is a Six Sigma Black Belt in aerylates, solvents, and intermediates with Dow Chemical in Hahnville, LA.

**Robin Church** ('94) is a skin care, spa, and image consultant with Beauticontrol, Inc. in Penn Laird, VA. She writes, "Family news—2nd child born July 2004—Savannah Nicole."

**Derek Paskiewicz** ('94) is an area manager for Tate & Lyle Americas in Decatur, IL.

**Christopher Baldwin** ('95) is national sales manager for HVAC Products Division of Siemens Building Technologies in Buffalo Grove, IL. He completed an MBA from Northwestern University in 2003.

**Maruti Dey** ('95) is senior application engineer with the Foxboro Company of Invensys Process Systems in Houston. He has implemented and commissioned control systems for prominent customers such as BASF, Duke-Energy, Tesoro Refining, Texaco, and OCI Wyoming Soda Ash. In July 2004 he started the executive MBA program at Rice University.

**Karla (Moore) Kitch** ('95) is a pediatrician at the Legacy Emanuel Hospital in Portland, OR.

**Jake Oberholzer** ('95) is process technology leader with ULTEM of General Electric-Advanced Materials in Mt. Vernon, IN.

**Utpal Singh** ('95) is an engineer associate in chemical engineering R & D for Merck.

**Carrolette J. Winstead** ('95) is a project manager for Remediation Engineering for the URS Corporation in Phoenix.

**Jeff Bielefeld** (MS, '93, PhD '96) won a 2003 Intel achievement award for implementing the low-k, carbon-doped oxide interlayer dielectric in Intel's 90 nm technology.

**Donna Huse Dube** ('96) is a plant operations manager for Nestle USA in St. Louis. She writes that she was married in 2002 and is a St. Louis Country Rotarian.

**Bryan Dravis** ('96, PhD, '01) is a research scientist with Eli Lilly in Bioproducts R & D.

**Christopher Panczyk** ('96) is director for engineering and maintenance for the Cincinnati division of SUMCO USA in Maineville, OH.

**Elizabeth (Yoder) Russo** ('96) is a process engineer with Elanco Animal Health at Lilly in Lafayette, IN.

**Sriram Subrahmanyam** (PhD, '96) is director of the information services division of United Airlines in Elk Grove Village in Illinois.

**Lisa (Mikus) James** ('97) is a senior process engineer for IC Fabrication Manufacturing at Intel in Colorado Springs.

**James B. Lyons** ('97) is specialty sales manager for the neurology division at Pfizer, Inc. He and Jennifer had their first child on June 21, 2004.

**Joshua Bishop** ('98) is with for Steris Corporation in R&D Defense & Industrial, working with the US-Army-Edgewood Chemical Biological Center on building decontamination project.

**Griselda Bonilla** (MS, '98) is an advisory engineer with IBM in Adtech Beol Integration.

**Arkan Kayihan** (MS, '98) is working toward his MBA at the University of Washington.

**David Sabbagh** ('98) is technical manager for 8th Continent Soymilk for the Solae Company in St. Louis (joint ventures by DuPont and General Mills).

**Grace Chong Bazata** ('99) is a process engineer in the Process Department of Fluor Corporation in Aliso Viejo, CA.

**Amy (Gentz) Danison** ('99) is a process engineer with Kraton Polymers. She obtained her PE licensure, and gave birth to their first child, John Thomas, on October 28, 2004. Chris is the proud father.

**Milan Dotlich** ('99) is a section manager for Automotive and Alternative Energy at Underwriters Laboratories in Northbrook, IL. He writes that he has also been working as a visiting assistant professor of management at DePaul University.

**Diane L. Kilpatrick-Lee** ('99) is an attorney with Law-Technology for Exxon-Mobil in patent and intellectual property law. She completed her J.D. in 2002, married Steve Lee (BSME '98) in 2003, and completed her clerkship with the First Court of Appeals for the state of Texas.

**Cassandra Forthofer Shell** ('99) is an operations associate with Forteo Manufacturing of Eli Lilly in Indianapolis.

**Beth Thompson** ('99) was profiled in the July issue of Chemical Engineering Progress. She is a Johnson & Johnson certified Black Belt in Process Excellence and is actively pursuing a PE Master Black Belt.

**Paul Westgate** (PhD '90) is Director of Innovation for Grace Performance Chemicals. This follows various roles within Grace in Engineering Consulting, Process Engineering, and Six Sigma.

## 2000s

**Jason Ball** ('01) is now working for Toyota Automotive Parts USA in Franklin, KY as a production engineer and ISO 14001 representative.

**Frederick Brown IV** ('01) is a production engineer with North American Engineering for Nalco in Garyville, LA. He writes that he gave up bachelorhood on 10/4/03.

**Kelly Clopatek Coppola** ('01) married Francesco (Purdue BA, '01) on June 19, 2004. She has a new

position as optimization engineer at the Fluid Catalytic Cracking Unit No.2 at the BP Texas City refinery.

**Julie L. Ortner** ('01) is studying for an MBA at the University of Chicago.

**Alicia Toscano** ('01, MSChE '02) is completing her graduate studies in polymer science & engineering at the University of Massachusetts.

**Wendy A. Wyatt Wiker** ('02) is assistant plant manager for W. R. Grace in Houston.

**Nicholas Birringer** ('03) works for Merck Research Labs in West Point, PA.

**Eric J. Mehringer** ('03) is a design and development engineer for C&D Technologies in Milwaukee.

**Patrick Stenger** ('03) is pursuing graduate studies at the University of California at Santa Barbara.

**Derek Galyen** ('04) is a technical professional in the Engineering Division with Halliburton.

**Annie Lange** ('04) is a process engineer with Cook Biotech in West Lafayette. She is now also a PE in Indiana.

**Annette Stiers** ('04) is with Frito-Lay in the Technology division in Plano, TX.

**Joseph Wang Franses** ('05) received and accepted an offer to study in the combined-degree MD-PhD program at Harvard/MIT, starting in September 2005. This is a seven to eight year program, supported by Harvard, MIT, and NIH, in which he will get an MD degree and a PhD. He graduated with a double major in chemistry and chemical engineering, with honors and highest distinction in both fields, along with minors in biology and English. He was in President Jischke's Leadership Class, Mortar Board, and in the Science Student Council.

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continued on page 22 ►

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continued on page 24 ►

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## In Memoriam

### 1930s

Raymond H. Bish ('33)  
Adolph Heeseman ('34)  
Fred E. Jones ('35)  
Ovid B. Jones ('35)  
John S. Kramer ('35)  
Robert W. Bowman ('36)  
John A. Coddington ('37)  
John E. Werner ('37)  
Robert O. Borton ('38)  
J. Ward Greiner ('38)  
William H. Harrington ('38)  
Harry G. Noll ('38)  
Myron A. Pugacz ('39)

### 1940s

A. Woodrow Rifenburgh ('40)  
Robert Z. Bancroft ('41)  
J. Donald Charlton ('42)  
Frank H. Freiherr ('42)  
David H. Lennox ('42)  
L. Daniel Tschopp ('42)  
Charles Clark ('43)  
Robert H. Hass ('43)  
Albert J. Mullin ('43)  
Nourse, Thomas M. ('43)  
Glenn A. Arter ('45)  
Charles H. Rivers ('46)  
Harold Richard (Dick) Horner, ('48)  
Foster C. Wilson ('48)  
Kenneth W. Davis ('49)  
Frank T. Matthews ('49)  
John K. Patterson ('49, PhD '53)  
Samuel Salem ('49, MS '50)

### 1950s

Robert W. Camp ('50)  
A. Anthony Etter ('50)  
Herbert W. Grable ('50)  
Leonce E. Martin ('50)  
James V. Worrall ('50)  
Charles P. Ross ('52)  
John K. Patterson (PhD, '53)  
Glenn R. Reasner ('55)  
Rosa F. Robbins ('57)  
Robert W. Scher ('53)

### 1960s

John M. Hoffman ('64)

## Student News & Awards

### 2004-05 Undergraduate Awards

**Olga Shebanova** was selected as the Outstanding Undergraduate Student of Chemical Engineering for December 2004.

**Emily Hunter** ('05) had the honor of being the student responder for the Spring engineering graduation ceremony. She'll be attending the Indiana University School of Medicine.

### Senior Awards

<b>AIChE Award</b>	Elizabeth Tocce
<b>Omega Chi Epsilon Bruce Wilson Award</b>	Patrick Ford
<b>Lottes Award</b>	Amanda Braun and Paul Jorjorian
<b>PSEF (Purdue Student Engineering Foundation Award)</b>	Emily Hunter

### Junior Awards

<b>Stephen Craig Award</b>	Samantha Sanders
<b>George T. Tsao Award</b>	Dan Eckerle and David Mullaly

### Scholarship Recipients

<b>Alexander B. Clarke Scholarship</b>	Joseph Baffoe
<b>Thomas C. and Catherine Doody Scholarship</b>	Michael Benko
	Bryan Swackhamer
	Bonnie Co
	Joseph Baffoe
<b>Citgo Petroleum Scholarship</b>	Seth Forster
	Rebecca Reid
	Paul Jorjorian
<b>John M. Hummel Memorial Scholarship</b>	Patrick Luecke
<b>Lubrizol Scholarship</b>	David Mullaly
	Amanda Braun
	Amanda Acosta
	Brian Kiessling
	Mark Tucker
<b>Merck Scholarship</b>	Daniel Robbins
	James Skallerup
	Elise Fang
	Nick Brandon

continued on page 26 ▶

## Scholarship Recipients

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### National Starch and Chemical Scholarship

Dan Eckerle  
Lee Swanson  
Brian Giera

### Leroy, "Bud" Nelson Memorial Scholarship

Joseph Baffoe

### James H. Rust Scholarship Award

Emily Hunter

### James Earl Sutherlin Memorial Fund

Ashley Ackerman

Brian Giera

Keith Glova

Jason Lamuda

### Valspar Scholarship

Elizabeth Tocce

### Robert A. and Totsye H. Winslow Scholarship

Konstantinos Papanikolaou

## 2004-05 Graduate Awards

### Excellence for Undergraduate Laboratory Assistant

Charles Schaffer

### 13th Annual Graduate Research Symposium (August 2004) Posters

**1st place** - Chim Y. Chin, Chi-Ming Yu, and Yi Xie • Simulated Moving Bed for Insulin Purification.

**2nd place** - Ying-Chih Liao • Adsorption Dynamics and Fluid Mechanics of Surfactant Solutions.

**Honorable mention** - Eric Sherer • Cell Cycle Dynamic Responses to Chemotherapeutic Agents: Rational Treatment Design Applications.

**Honorable mention** - Charles Schaffer • A DFT Study of Poly-Silicic Acid Hydrolysis in Zeolite Synthesis.

**Honorable mention** - Kyung Jae Jeong • Specific Interactions between DNA-Modified Gold Surfaces and their Application in Novel Nanoelectronic Biosensor.

### Presentations

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**1st place** - Scott McClellan • Competitive Adsorption of Proteins and Surfactants at Interfaces.

**2nd place** - Nicole M. Dingle • A Finite Element Based Algorithm for Determining Interfacial Properties from Pendant and Sessile Drop Profiles.

**3rd place** - Jamey Young • Cybernetic Modeling of Metabolism: Towards a Framework for Rational Design of Recombinant Organisms.

## Purdue ChE among the tops in engineering producers.

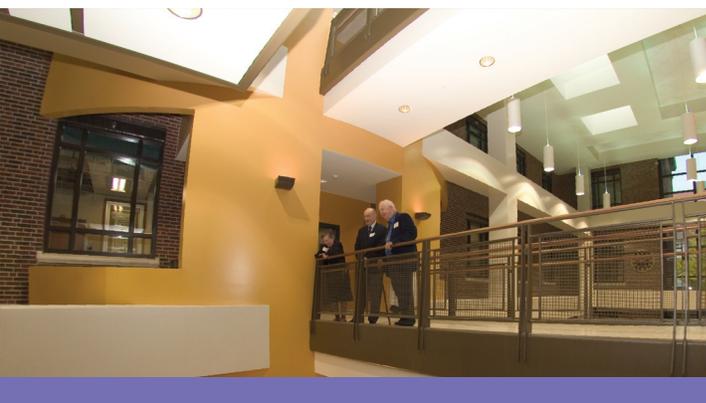
For the year 2002-03, Purdue ChE was **fifth** nationally for number of Bachelor's degrees awarded and **second** for doctorates.

## Building Renovation Plans – Get On Board!

The School of Chemical Engineering has much to be proud of. Last fall we celebrated the completion of a 100,000 sq. ft. addition to the Forney Hall of Chemical Engineering. It includes one 200-seat auditorium, two 60-seat state-of-the-art classrooms, a unique Fundamentals Laboratory for increasing hands-on learning in the undergraduate courses, an Advanced Laboratory for teaching students how to do research, laboratories for bioengineering, catalysis and nanoscience research, and the associated office space. This facility only moves us closer to our vision: To be recognized as the premier source of well-educated and well-prepared chemical engineers in the world.

Over the last five years the school has made considerable progress towards this vision. Additional highlights include:

- The hiring of eight new faculty, including four distinguished professors, two associate professors and two assistant professors. This brings the total number of faculty in the school to 28, with several positions yet to be filled.
- The establishment of a number of major research centers, including the Center for Catalyst Design and the Institute for Pharmaceutical Technology, which provide the school appropriate platforms for national leadership.



The Henson Atrium



Dedication Presentation: President Martin Jischke presents Marilyn and Bob Forney with The Crystal Boilermaker at last fall's dedication of the new addition to the Forney Hall of Chemical Engineering.

With the recent addition to Forney Hall, for the first time in decades, the school has the space to grow with new lecture facilities, a new undergraduate laboratory and bioengineering, catalysis and nanoscience research laboratories. However, nearly 50 percent of the space for the School of Chemical Engineering remains in the original part of Forney Hall, which was constructed in 1940. Nearly 65 percent of the faculty, staff, and graduate students will continue to have their offices and research laboratories in the original part of Forney Hall. Although there has been some limited remodeling of this space, it is critical that most of the existing space be substantially upgraded for the School of Chemical Engineering to continue its leadership position in the profession.

The Champions of Excellence campaign committee is working with the school's administration and development staff and the university to raise the funds—just under \$5 million—that will be needed to complete the renovation project. You will hear more about these plans later this fall, but, as with the construction of the addition, your support will be vital to the success of this effort. We are most appreciative of your past support and confident you will want to be part of finishing the job you have all worked so hard to bring this far along.

# ChE Calendar for 2005

August Graduation	<b>August 6</b>
Graduate Symposium	<b>August 17 - 18</b>
Classes Begin	<b>August 22</b>
Purdue University President's Council Back-to-Class	<b>October 7</b>
Homecoming Purdue vs Northwestern	<b>October 15</b>
Outstanding ChE Awards	<b>October 26</b>
December Graduation	<b>December 22</b>

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