

2006 SCHOOL OF CHEMICAL ENGINEERING



OUTSTANDING CHEMICAL ENGINEER AWARDS

AWARDS BANQUET | October 26, 2006

PREFACE

The School of Chemical Engineering has a tradition of recognizing alumni who have achieved distinction as leaders in their careers and who have shaped the chemical engineering profession. Over the years, only 116 of the school's 9,000 alumni have been accorded this prestigious award. Today, the School of Chemical Engineering faculty honor Dr. Michael Landisch, Dr. James Rust, and Mr. James Stake as the recipients of the 2006 Outstanding Chemical Engineer Award.

The 2006 Outstanding Chemical Engineer Award recipients are acknowledged for their professional achievements, distinct and innovative leadership, and service. Through their accomplishments, they have brought recognition to the chemical engineering profession, the School of Chemical Engineering, and Purdue University.

Chemical engineering students and faculty today met with the honorees. Our guests shared their Purdue and professional experiences, reflected on the ways the School of Chemical Engineering and Purdue University contributed to their professional expertise, and encouraged students to cherish the rewards and opportunities their careers will offer.

We appreciate the many friends and faculty who join us to honor these Outstanding Chemical Engineer Award recipients, and we thank everyone for sharing this very special celebration with us.



OUTSTANDING CHEMICAL ENGINEER AWARDS

October 26, 2006

WELCOME

Dr. Arvind Varma, Head, School of Chemical Engineering

DINNER

INTRODUCTIONS

Dr. Nicholas Delgass, Professor, Chemical Engineering

PRESENTATION OF AWARDS

Michael Landisch, 2006 Outstanding Chemical Engineer

James Rust, 2006 Outstanding Chemical Engineer

James Stake, 2006 Outstanding Chemical Engineer

CLOSING REMARKS

Dr. Arvind Varma, Head, School of Chemical Engineering

Michael Ladisch, MS '74, PhD '77



Michael R. Ladisch is Director of the Laboratory of Renewable Resources Engineering (LORRE) and Distinguished Professor of Agricultural and Biological Engineering, with a joint appointment in Biomedical Engineering and courtesy appointment in Food Science, at Purdue University. He earned his BS from Drexel University and MS and PhD degrees from Purdue, all in chemical engineering. He has a broad background in bioscience and bioengineering, and has authored numerous journal papers, as well as a textbook in "Bioseparations Engineering: Principles, Practice and Economics" (Wiley, 2001). He previously chaired the National Research Council Committee on Bioprocess Engineering as well as the Committee on Opportunities in Biotechnology for Future Army Applications. Dr. Ladisch was elected to the National Academy of Engineering in 1999.

Dr. Ladisch's research addresses fundamental topics in bioprocess engineering as it applies to bioproducts, biorecovery, and bionanotechnology. The work that he carries out with teams of researchers consisting of colleagues, graduate students, and staff is multi-disciplinary and multi-institutional, and addresses properties of proteins and living organisms at surfaces, rapid prototyping of microfluidic biosensors, bioseparations, and transformation of renewable resources into bioproducts. His research has resulted in new industrial bioenergy processes, and systematic approaches and correlations for scaling-up laboratory chromatographic purification techniques to process-scale manufacturing systems. He is currently investigating the scale-down of bioseparations and the rapid prototyping of microfluidic biochips for the rapid detection of pathogenic microorganisms. There are numerous opportunities for graduate and advanced studies in LORRE.

Dr. Ladisch teaches bioseparations, bioprocess engineering and biotechnology at both the graduate and undergraduate levels. His discovery and learning activities engage bioproducts, biopharmaceutical, and biotechnology industries on a national basis, as well as industries and stakeholders in the State of Indiana.

James Rust, BSChE '58, PhD '65

James Rust graduated with a BS in 1958, earned his master's degree from Massachusetts Institute of Technology in 1960, and completed a PhD in Nuclear Engineering from Purdue in 1965. While at Purdue, he was a member of Triangle Fraternity.

Dr. Rust began his career on the faculty in the School of Nuclear Engineering, Georgia Institute of Technology, in 1967, and was promoted to full Professor in 1977. He worked in the field of heat transfer and reactor engineering, retiring in 1981. From 1964-67, he was an assistant professor at the University of Virginia. During his academic career he taught graduate courses in nuclear power plant engineering, reactor physics, heat transfer and undergraduate courses in heat transfer and stress analysis.



continued on next page →

Dr. Rust wrote "*Nuclear Power Plant Engineering*", Haralson Publishing Company, 1979. It was a very successful nuclear engineering text, and in the early 1980's was used as text on 18 campuses in the United States.

Dr. Rust's academic accomplishments involved energy and educating the public on energy problems, in particular nuclear energy. He served as Georgia Site Coordinator for the DOE Citizen's Workshop Program, advisor to Georgia Tech's Student Chapter of the American Nuclear Society, gave numerous presentations of the TMI Accident, Nuclear Power Plants, Economics of Solar Energy, and served as consultant to organizations such as Army Materials Research Agency, Lockheed Nuclear Products, Energy Consulting Engineering, Inc., and Georgia Power Company.

Dr. Rust established the James H. Rust Scholarship in the School of Chemical Engineering, endowed the Rust Scholarship awarded by Triangle Fraternity, and was recognized as a member of the Chairman's Circle at the 2005 Triangle National Convention.

James Stake, BSChE '74



James Stake has recently been named executive vice president, Enterprise Services, 3M Corporation. Prior to that he served as executive vice president, Display & Graphics Business, 3M, a position he held since 2002.

In addition to his BS degree from Purdue University, Mr. Stake also obtained his MBA in finance in 1979 from Wharton School at the University of Pennsylvania

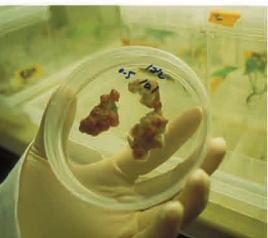
Over the years he has held leadership responsibilities in three of 3M's six divisions along with experiences in South America, Europe, and the United States. Early assignments included: Product Development Engineer in the Commercial Tape Division (1974); Marketing Supervisor/Manager, Surgical Products Division (1979); Product Manager, Europe, Surgical Products Division (1983); and Business Unit Manager, Infection Control products, Medical/Surgical Division (1985).

Mr. Stake was promoted to Managing Director, 3M Venezuela (1993) and was named Managing Director 3M Italy and Regional Managing Director Southern Europe Region (1996) and Managing Director, 3M Italy (1998). He returned to the U.S. as Division Vice President, Packaging Systems Division (1999) and was named Division Vice President, Industrial Tape and Specialties Division (2000). He accepted added responsibilities with the additional title of Vice President, Marketing, Industrial Markets (2002).

3M is a \$16 billion diversified technology company with six corporate divisions, widely recognized for its innovative products and programs.

OUTSTANDING CHEMICAL ENGINEER AWARD RECIPIENTS

Albert Bernard 1988	Robert Becherer 1993	Harold Hunsicker 1993	John Roorda 1993	Jamie Wisniak 1993	Thomas Storer 1996	Robert McNeeley 2000	Susan Hardman 2004
Robert Bringer 1989	Donald Brophy 1993	Roberto Lee 1993	Samuel Salem 1993	Deborah Grubbe 1994	S. Margaret Willoughby 1996	Max Downham 2001	Rick Roberts 2004
Robert Henson 1989	Bernard Butcher 1993	A. W. Lutz 1993	Dave Schornstein 1993	Richard Hazleton 1994	Frank Becker 1997	Donald Dunner 2001	Lloyd Robeson 2004
William Schmitt 1989	John Ciborski 1993	John Lux 1993	James Schorr 1993	Lowell Koppel 1994	Andrew Crowe 1997	Jeffrey Hemmer 2001	Charles Davidson 2005
William Madar 1990	Alexander Clarke 1993	Tom Maliszewski 1993	Yen-Ping Shih 1993	Philip Krug 1994	Eleftherios Papoutsakis 1997	Jay Ihlenfeld 2001	Robert Welst 2005
Robert Postlethwait 1990	Robert Covalt 1993	J. Timothy McGinley 1993	John Siegesmund 1993	John Lillich 1994	Guy Camarata 1998	Brian Stutts 2001	Arindam Bose 2005
Norman Pruitt 1990	Robert Forney 1993	Roger Moser 1993	Edward Steinhoff 1993	Joe Stewart 1994	Charles Kline 1998	Michael Graff 2002	Michael Landisch 2006
Donald Hannemann 1991	Robert Gadomski 1993	Gordon Mounts 1993	Miller Swaney 1993	William Young 1994	Todd Gehr 1999	Donald Lamberson 2002	James Rust 2006
Linda Huff 1991	Bruce Gonser 1993	Randall Murill, Jr. 1993	Joseph Temple, Jr. 1993	R. William Eykamp 1995	Stanley Gembicki 1999	Michael Ott 2002	James Stake 2006
Rohit Khanna 1991	Frederick Haas 1993	Paul Orefice 1993	Francis Theis 1993	Che-I Kao 1995	Richard Grabham 1999	Nicholas Peppas 2002	
Alan Fox 1992	William Harris, Jr. 1993	Donald Orr 1993	Vern Weekman 1993	Craig McLaughlin 1995	Emily Liggett 1999	Ellen Tobias 2002	
Robert LaFortune 1992	James Henderson 1993	Michael Ramage 1993	Maynard Wheeler 1993	William Smith 1995	David Pershing 1999	Paul Dickensheets 2003	
S. George Bankoff 1993	John Hesselberth 1993	Henry J. Ramey, Jr. 1993	Robert Wheeler 1993	Robert Buckman 1996	Robert Davis 2000	Ben Lipps, Jr. 2003	
William Bares 1993	Thomas Hodgson 1993	Robert Reid 1993	Robert Winslow 1993	Ching-Tien Liou 1996	Abbie Griffin 2000	Tom Maliszewski 2003	
Andrew Barnes 1993	John Horner 1993	Harold Ritchey 1993	William Wishlinski 1993	David Rea 1996	Robert Hannemann 2000	Joseph S. Alford, Jr. 2004	



PURDUE
UNIVERSITY

SCHOOL OF CHEMICAL ENGINEERING

An equal access/equal opportunity university

Produced by the Engineering Communications Office