

President Bush Honors AIChE Member and UOP

President George W. Bush recognized

member John M. Prausnitz of the University of California, Berkeley and UOP LLC (Des Plaines, IL) for their scientific contributions by presenting them with the prestigious National Medals of Science and Technology, respectively, the nation's highest scientific honors.

Altogether, 14 individuals, teams and companies received National Medals of Science and Technology during the ceremony held in the East Room of the White House on March 14.

Prausnitz is professor of chemical engineering at the University of California, Berkeley and faculty senior scientist at Lawrence Berkeley National Laboratory. An applied physical chemist, Prausnitz has developed molecular thermodynamics for the design of separation operations in large chemical plants to make them more efficient, environmentally friendly and safe, and to reduce energy consumption. The concepts and computer programs he developed have been key to the design of numerous large-scale chemical plants, including petroleum refineries, facilities for the manufacture of polymers, plastics and pharmaceuticals, and industrial-scale production of oxygen from air.

His concepts also are the basis of the design of polymer manufacturing plants, such as those making polyethylene or rubber. He also concentrated on raising the efficiency of air separation into oxygen and nitrogen through distillation at low temperatures. Oxygen has its greatest use in the steel in-



dustry and in purification of wastewaters.

More recently, Prausnitz has applied molecular thermodynamics to the biotechnology industry.

UOP was recognized for "over 85 years of sustained technical leadership and innovation for the worldwide petroleum refining and petrochemical industries, and for commercialization of absorbents, catalysts, process plants and process technology that have strengthened America's global competitiveness and benefited quality of life around the world."

According to the award citation, of the 36 major petroleum refining process, UOP developed 31. UOP was also recognized for its leadership in environmental areas and technological innovations that have been critical to the development of lead-free gasoline, biodegradable 'soft' detergents as well as many plastics.

The National Medal of Science honors individuals in a variety of fields for pioneering scientific research that has led to a better understanding of the world, as well as to the innovations and technologies that give the U.S. its global economic edge. The National Science Foundation administers the award, established by Congress in 1959.



John M. Prausnitz receives medal from President Bush (above). UOP LLC is represented by Vice President Research & Development and Chief Technology Officer, Dr. Stanley A. Gembicki (below), at the awarding of the National Medals of Science and Technology. Credit: Courtesy: National Medals Foundation.



The National Medal of Technology, administered by the Dept. of Commerce, recognizes those who embody the spirit of American innovation and have advanced the nation's global competitiveness.

Sam Bodman Confirmed as Secretary of Energy

Samuel Wright Bodman was sworn in as the 11th Secretary of Energy on Feb. 1, 2005 after the U.S. Senate unanimously confirmed him. He leads the Dept. of Energy with a budget in excess of \$23 billion and over 100,000 federal and contractor employees.

Previously, Bodman served as Deputy Secretary of the Treasury beginning in February 2004. He also served the Bush Administration as the Deputy Secretary of the Dept. of Commerce beginning in 2001. A financier and executive by trade, with three decades of experience in the private sector, Bodman was identified by Bush as being uniquely qualified to manage the day-to-day operations of both of these cabinet agencies.

According to Bodman, the job as Energy Secretary in many ways combines all aspects of my his life's professional work. "I started as a teacher in chemical engineering at MIT, spent 17 years helping create and manage Fidelity Investments, and then spent 14 years managing Cabot Corp., a globally-deployed chemical com-



pany," said Bodman. "Each of these activities dealt with the financial markets and the impact of energy and technology on those markets."

"In academics, in business, and in government, Sam Bodman has shown himself to be a problem solver who knows how to set goals and he knows how to reach them," said President Bush at Bodman's nomination ceremony. "He will bring to the Dept. of Energy a great talent for management and the precise thinking of an engineer. I thank him for agreeing to serve once again."

The Dept. of Energy responsibilities range from the security of nuclear facilities to reducing the risk of nuclear proliferation around the world to environmental clean up to enhancing conservation and developing new sources of energy for the future.

Bodman recently expressed to Congress his "tremendous enthusiasm for the department's mission to maintain and enhance America's leadership in science and technology," at the Office of Science budget hearing.



...And the Nominees Are... 2006 Candidates Announced

AIChE's Nominating Committee has announced the 2006 candidates for officers and directors. In the coming months, *AIChEExtra* will publish profiles of all the candidates that describe the candidates' qualifications and platforms. Profiles of president-elect candidates will appear in the June issue, and candidates for director will be published in July.

The president-elect will be elected to a three-year term, serving one year as president-elect, president, and past-president, respectively. Directors are elected for a three-year term.

Voting by paper and electronic proxy ballot will begin August 10, and end September 14. To keep up to date on this year's election, visit: www.aiche.org/candidates.

President-Elect
Sandra K. Dudley, AMEC Earth & Environmental, Nashville, TN
Lawrence B. Evans, Aspen Technology, Inc., Cambridge, MA
Director
Rakesh Agrawal, Purdue University, W. Lafayette, IN
Amos A. Avidan, Bechtel Corporation, Houston, TX
Kelly D. Bryant, US Vanadium Corporation, Hot Springs, AR
Emmanuel A. Dada, FMC Corporation, Princeton, NJ
Thomas R. Hanley, Auburn University, Auburn, AL
Robert P. Hesketh, Rowan University, Glassboro, NJ
James R. Swartz, Stanford University, Stanford, CA
Matthew V. Tirrell, University of California at Santa Barbara, CA

In the Running: Petition Candidates for Board Elections

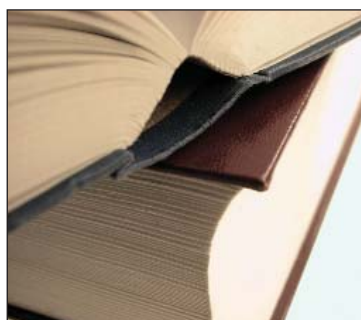
Members interested in running for AIChE Board election or nominating a fellow member can sign up as a petition candidate. Any Fellow, senior member, or 4-year member who is interested in running for president-elect or director can file as petition candidates with the Office of the Secretary by May 10. Nominees for president-elect must have previously served as an AIChE officer or director.

Petition candidates must submit the support, in writing, of 100 or more Fellows, senior members, or members. This can be done by signing a petition or by e-mail. For more information on filing as a petition candidate, please contact Fiona Brennan, Assistant Secretary, at (212) 591-7333 or e-mail fiob@aiiche.org.

AIChE and Wiley Form Book Publishing Partnership

Building on the success of its partnership in journal publishing, AIChE has joined forces with publisher John Wiley & Sons, Inc. to jointly publish books in chemical engineering and industrial chemistry under a new, co-branded imprint, effective April 2005. This partnership will strengthen and expand AIChE's book publishing program and give members access to significantly expanded content. Members will continue to benefit from special member discounts.

Under the agreement, Wiley and AIChE will co-publish 10-15 books a year in the broad field of chemical engineering, including books in process safety and emerging technological areas like biological engineering and sustainability. Wiley will oversee the publishing services for these books including production, marketing, and distribution worldwide. AIChE will retain editorial control of the titles. Also effective with this agreement, Wiley will distribute approximately 70 backlist



titles published by AIChE.

"Wiley's marketing and sales resources will help us better achieve our mission of getting superior technical information to the widest possible audience," said Executive Director John Sofranko. "Through this partnership, we look forward to reaching more people, especially internationally, with important chemical engineering, process safety, biological engineering, sustainability and new technology information."

This is the second publishing agreement between Wiley and AIChE. In January 2004, Wiley assumed all publishing responsibilities for the Institute's three flagship journals — *Environmental Progress*, *Process Safety Progress*, and *the AIChE Journal* — including the publication of online editions through Wiley InterScience (<http://www.interscience.wiley.com>), the company's online publishing platform. AIChE retained editorial control of the journals.

National Academy of Engineering Elects Members

Election to the National Academy of Engineering is among the highest professional distinctions accorded an engineer, honoring those who have made outstanding contributions to engineering research, practice, or education. AIChE members who were among this elite group include:

Harvey W. Blanch, University of California, Berkeley. For scientific, engineering, and educational advances in enzyme engineering, bioseparations, and biothermodynamics.

Chau-Chyun Chen, Aspen Technology Inc., Cambridge, MA. For contributions to molecular thermodynamics and process-modeling technology for designing industrial processes with complex chemical systems.

Joseph M. DeSimone, University of North Carolina, Chapel Hill. For the development of environmentally friendly chemistries and processes for the synthesis of materials, especially new fluoropolymers.

Dominic M. Di Toro, University of Delaware, Newark. For leadership in the development and application of mathematical models for establishing water-quality criteria and making management decisions.

Gerald G. Fuller, Stanford University, CA. For contributions to our understanding of the rheology of complex fluids and fluid interfaces and the development of unique rheo-optical techniques.

George Georgiou, University of Texas, Austin. For protein engineering, especially the development of therapeutics to biological warfare agents, protein manufacturing technologies, and combinatorial library screening methodologies.

Carol K. Hall, North Carolina State University, Raleigh. For applications of modern thermodynamic and computer-simulation methods to chemical engineering problems involving macromolecules and complex fluids.

Allan S. Hoffman, University of Washington, Seattle. For pioneering work on the medical uses of polymeric materials.

Kenneth A. Jackson, University of Arizona, Tucson. For advancing the science and technology of single crystal growth and materials made by casting.

Subhash Mahajan, Arizona State University, Tempe. For advancing our understanding of structure-property relationships in semiconductors, magnetic materials, and materials for light-wave communication.

Arunava Majumdar, University of California, Berkeley. For contributions to nanoscale thermal engineering and molecular nanomechanics.

Danny David Reible, University of Texas, Austin. For the development of widely used methods of managing contaminated sediments.

Ralph T. Yang, University of Michigan, Ann Arbor. For the development of the theory, methods, and materials for the removal of environmentally hazardous compounds from transportation fuels and other difficult separations.

Stay Sharp: American Management Association Discount

Trying to work smarter, not harder? Strong leadership and management skills are essential to stay competitive in today's workplace. And now, thanks to a partnership with the American Management Association, AIChE members are entitled to an AMA member discount on career de-

velopment courses and conferences. AMA, a leader in management and business education and development, offers over 200 courses in 17 subject areas, including IT, management, leadership, finance, and communication. Courses are offered at 35 cities nationwide and can be

customized for on-site delivery. Classroom size is often limited to 25 to provide a more intimate learning environment. Continuing Education Units are awarded to all seminar participants.

Under this new member benefit, AIChE members who register will receive:

- Discounts of at least 10% on all AMA seminars, books, conferences, and events
- Access to AMA Members-Only Web site with online library and career tools.
- Monthly e-newsletter, *AMA Management Update*, with practical ready-to-use information.
- Option to participate in AMA research and receive timely results — topics include email rules, economic conditions, corporate governance, job outlook, crisis management, among others.
- Invitations to AMA Current Issues briefing and forums.

To learn more and to register for these benefits, visit www.amanet.org/alliances/AIChE or call 1-877-765-3634. AIChE members must use reference code AMA-AIChE to receive this discount.

Christine Grant Wins Fellowship for Faculty Institute

AIChE Board Member Christine S. Grant, associate professor of chemical engineering at North Carolina State University is one of three to receive the National Academy of Engineering's Boeing Co. Engineering Education Senior Fellowship, a 12-month appointment to provide analysis for NAE's Center for the Advancement of Scholarship on Engineering Education.

Grant will develop an institute that focuses on advancing the professional success of current and future faculty members from populations that are currently underrepresented in engineering — African Americans, Hispanics, Native Americans, and women. She plans to work with successful scholars from these groups in the development of lessons that will guide faculty and administrators of all backgrounds in the mentorship of future generations of such faculty.

Grant is a recipient of the 2003 Presidential Award for Excellence in Science and Engineering Mentoring administered by the National Science Foundation (NSF) on behalf of the Executive Office of the President of the United States and co-director of the NSF Green Processing Research Program. Grant performs research in surface and interfacial science.

AIChE[®]

Proudly Announces New Fellows for 2004

The grade of Fellow is a special category of AIChE membership, reserved for those tenured Institute members who have displayed significant service to AIChE and the profession, and who have achieved significant accomplishments in chemical engineering.

Arthur E. Bergles	John F. Murphy (National Capital)
Lorenz T. Biegler (Pittsburgh)	Ralph D. Nelson, Jr. (Wilmington)
Thomas R. Blackwood (St. Louis)	Lee R. Partin (East Tennessee)
Neil L. Book (St. Louis)	Thomas W. Peterson (Arizona)
Charles N. Carpenter (St. Louis)	Gary Prager (North Jersey)
Jorge M. Ferrer (Baton Rouge)	Geoffrey L. Price (Tulsa)
Robert P. Gale (St. Louis)	Dennis C. Prieve (Pittsburgh)
Ignacio E. Grossmann (Pittsburgh)	David M. Richman (National Capital)
Robert B. James, Jr. (Chicago)	Edward C. Roche, Jr. (Central Florida)
Larry A. Kaye (Iowa)	Dale E. Seborg (Southern California)
Gregory L. Keeports (Delaware Valley)	Dudley A. Shaw (St. Louis)
Thomas A. Kenat (Akron)	George B. Stanton, Jr. (North Jersey)
Peter N. Lodal (East Tennessee)	Sam L. Sullivan, Jr. (New Orleans)
Michael F. Malone (Central New England)	Alan W. Weimer (Rocky Mountain)
Thomas R. Marrero (St. Louis)	Phillip R. Westmoreland (Central New England)
Duncan A. Mellichamp (Southern California)	John R. Wright (St. Louis)



To nominate a member for Fellow or to review a list of all AIChE Fellows, visit:

<http://www.aiche.org/membership/fellownom.htm>.

Honoree Local Section listed in parenthesis.

2005 AIChE Conference Calendar

For information, visit: www.aiche.org/conferences

Offshore Technology Conference

May 2-5, Houston, TX

LNG Conference/Workshop

September 11-14, Vancouver, BC, Canada

Safety in Ammonia Plants and Related Facilities Symposium

September 26-29, The Fairmont Royal York, Toronto, Ontario, Canada

2005 Annual Meeting

October 30-November 4, Cincinnati, OH

AIChE/ACS Management Conference

November 2-4, Cincinnati, OH

Volunteer Wanted

An experienced engineer with design and operating experience on spiral wound and/or plate and frame heat exchangers. The prestigious Equipment Test Procedures Committee (ETPC) is seeking an individual to chair a committee of industry experts in preparing equipment test procedures for publication by AIChE. In addition to providing guidance to the chemical industry on field testing various equipment items, ETPC publications are an important source of income for AIChE. For more information on this volunteer position, contact Richard P. O'Connor at (828) 698-8746 or P. C. Gopalratnam at (302) 999-4185.

OBITUARIES

Aydin Akgerman*, 59, College Station, TX
 Charles Bickling, 81, Martinsville, VA
 Eugene S. De Haven*, 78, Lafayette, CA
 William L. Distin, 67, Katy, TX
 Gary Geist, 62, Missouri City, TX
 Jean Gignier, 82, Paris, France
 Daniel Hanson, 71, College Station, TX

Raymond N. Ludwig, 90, New Braunsfels, TX
 A. C. MacFarlane, 85, The Woodlands, TX
 Charles Martin, 56, Tulsa, OK
 William J. O'Brien, 76, Toms River, NJ
 Charles W. Perry*, 93, Montgomery Village, MD
 Cornelius J. Pings*, 76, Pasadena, CA
 John A. Reid, 50, Houston, TX
 John Reifel, 91, Grand Rapids, MI
 Brian Scarlett, 67, Gainesville, FL
 Erwin Frederick Schoenbrunn, 83, Ridgefield, CT

Valerian Shields, 71, Seabrook, TX
 George T. Skaperdas*, 91, Westfield, NJ
 Iron Otto Simek, 76, Calgary, AB, Canada
 Walter A. Smith, Jr., 96, Okmulgee, OK
 Erwin Steiner, 62, United Kingdom
 David A. Thornburg, 80, Williamsburg, VA
 Richard C. Wood, 92, Geneva, Switzerland
 William Wood*, 92, West Chester, PA

* Fellow member