Institute News



New AIChE Fellows Announced

IChE's Board of Directors recently conferred the Atitle of Fellow on five Institute members. These tenured members join the ranks of respected chemical engineers who have made significant contributions to the profession.

Fellow candidates are nominated by their AIChE peers, and must have been a been a chemical engineer for at least 25 years and a member of AIChE for at least 10 years, with at least three years as a Senior member. More information about AIChE Fellows is available at www.aiche.org/About/OurMembers/fellow.aspx.

Here are the members elected to Fellow during the summer of 2010.



Rena Bizios is the Peter T. Flawn Professor of Biomedical Engineering at the Univ. of Texas at San Antonio. She earned her BS and MS in chemical engineering from the Univ. of Massachusetts, Amherst, and California Institute of Technology, respectively,

and a PhD in biomedical engineering from MIT. She has pursued a career in academia, teaching and conducting research. She has published on cellular/tissue engineering, cell-material interactions, and biomaterials, co-authored one textbook and co-edited another book. She serves on the Editorial Board of the Journal of Biomedical Materials Research (Part A). She is active in AIChE, the Biomedical Engineering Society, the Society for Biomaterials, and the American Institute of Medical and Biological Engineers.



Norman F. Carnahan earned his chemical engineering PhD at the Univ. of Oklahoma. Known for the Carnahan-Starling equation of state for the fluid stage of rigid sphere particles, he has been a researcher and lecturer in thermodynamics at Rice Univ., and

he consults on applied thermodynamics and fundamentals of fluid physics, complex phase behavior, interfacial phenomena, process engineering, flow assurance, and rheology. He is active in AIChE — with the South Texas Section and the Offshore Technology Conference committee (both since 1980), and was general arrangements chair for two AIChE Spring Meetings. He is a registered P.E. in Texas.



Teresa T. Cheung, P.E., is the principal engineer and owner of C & C Engineering (Danville, CA), a chemical and environmental engineering consulting firm. Her career has incorporated many areas of chemical engineering and management, from

process design to construction supervision. She earned her BS in chemical engineering from Yale Univ., and an MBA from California State Univ., East Bay. She was General Arrangements Committee Chair for AIChE's 1994 Annual Meeting, and later chaired the national Ad Hoc Gender Equity Task Force that led to the formation of AIChE's Women's Initiatives Committee in 1997.



George A. Daniels earned his chemical engineering BS and MS at the Univ. of Kansas and Louisiana State Univ, respectively. An expert in process design, he began his career in Ethyl Corp.'s process design section in 1955, and is now a Distinguished

R&D Advisor at Ethyl's successor company, Albemarle Corp, in Baton Rouge, LA. Long active in AIChE's Baton Rouge Section, he also served for 25 years in AIChE's Design Institute for Physical Properties Data (DIPPR). He holds four patents and is the author of six publications.



Mark E. Harrison earned his BS and MS in chemical engineering from Tennessee Technological Univ. He joined Eastman Chemical Co. in 1982 as a process engineer, designing and assisting in the start-up of more than 20 commercial distillation units. He later

moved to manufacturing, and held several technical and management positions before his current role as Director of the DMT/Glycol Dept. He has published distillationrelated articles in CEP, and is active in AIChE's East Tennessee Section. A registered P.E. in Tennessee, he teaches a P.E. exam review course in heat and material balances.

These, and other new Institute Fellows, will receive recognition at the Fellows Breakfast, Nov. 9, during AIChE's 2010 Annual Meeting in Salt Lake City, UT.

Institute News

2010 Board of Directors' and Institute Award Winners New Honors for Industrial Achievement to Debut at Annual Meeting

n Sunday evening, Nov. 7, at the AIChE Annual Meeting in Salt Lake City, UT, some of chemical engineering's eminent people will be celebrated with the presentation of the 2010 Institute and Board of Directors' Awards. The awards will be given at the annual Honors Ceremony, which is open to all meeting attendees.

Of special interest at this year's ceremony will be the inauguration of four new Institute Awards, created to recognize accomplishments — both organizational and individual — in the industrial sector. These new honors complement

two previously established awards with a specific focus on industrial practice.

AIChE members in all areas of practice and academics are encouraged to nominate qualified candidates for future awards. The Awards Committee is especially interested in receiving more nominations from, and on behalf of, members engaged in the industrial practice of chemical engineering. Visit the AIChE website for more information about the Institutre and Board awards: www.aiche.org/Awards/. The deadline for 2011 nominations is Feb. 15, 2011.



Founders Award for Outstanding **Contributions to the Field of Chemical** Engineering **Dr. Peter T. Cummings** Vanderbilt Univ.



F. J. and Dorothy Van Antwerpen **Award for Service to the Institute** (Sponsored by The Dow Chemical Co.) Dr. Thomas F. Edgar Univ. of Texas at Austin



William H. Walker Award for **Excellence in Contributions to Chemical Engineering Literature** (Sponsored by John Wiley & Sons) Dr. William J. Koros Georgia Institute of Technology



Professional Progress Award for Outstanding Progress in Chemical Engineering (Sponsored by Air Products & Chemicals) Dr. Michael W. Deem Rice Univ.



Allan P. Colburn Award for Excellence in Publications by a Young Member of the Institute (Sponsored by DuPont) Dr. Ali Khademhosseini Harvard/MIT



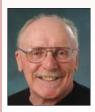
R. H. Wilhelm Award in Chemical **Reaction Engineering** (Sponsored by ExxonMobil) Dr. Ioannis G. Kevrekidis Princeton Univ.



Alpha Chi Sigma Award for Chemical **Engineering Research** (Sponsored by the Alpha Chi Sigma Educational Foundation) Dr. William Bailey Russel Princeton Univ.



Award for Service to Society (Sponsored by Fluor Corp.) Glenn E. Taylor Diamond Shamrock/Engelhard (retired)



Institute Award for Excellence in Industrial Gases Technology (Sponsored by Praxair) Dr. Richard D. Noble Univ. of Colorado



Warren K. Lewis Award for Chemical **Engineering Education** (Sponsored by ExxonMobil) Dr. T. W. Fraser Russel Univ. of Delaware



Institute Awards for Achievements in Industry



Lawrence B. Evans Award in Chemical **Engineering Practice** (Sponsored by CACHE Corp.) Dr. Teh Chung Ho ExxonMobil Research and Engineering



Industry Leadership Award* S. Shariq Yosufzai Chevron

Engineering and Construction Award* Marathon Petroleum Co. Garyville (LA) Major Expansion Project Team



Sustainable Energy Award ENI - Biologically-based Fuels Team, Des Plaines, IL



Process Operations Award* Bristol-Myers Squibb

Process Research and Development, New Brunswick, NJ



*Presented for the first time in 2010

Industrial Research and Development Award* Dow Chemical Co.

R&D Team: Shuttle Crew, Freeport, TX



Virtual Local Section Goes Online in January

ocal sections have long been the backbone of AIChE, engaging member engineers at their home locations across the U.S. and at sites around the world. However, not everyone is able to attend a local section meeting.

Beginning in January, AIChE members who cannot fit local section meetings into their work schedules, or who live too far from their assigned section's center of activity to conveniently attend events, will be able to go online and participate in a new Virtual Local Section (http://virtual. aiche.org). The monthly Virtual Section meetings — which members will log-in to using WebEx software — will function much like in-person section meetings, offering not only technical programs and career information, but also the critical component of member interaction and camaraderie that distinguishes vital AIChE sections.

AIChE's Local Sections Committee, which is organizing the virtual section, is conducting monthly planning meetings leading up to the January launch. Members who are interested in getting involved with the programming and planning for the Virtual Section are welcome to join these online sessions, the next of which is scheduled for Oct. 14.

According to Dan Lambert, the inaugural chair of the

Virtual Section, providing a social component for members will be crucial to the section's relevance and value. "We will initially accomplish this by forming smaller activity groups within the Virtual Section, such as groups for process engineers, young professionals, women engineers, engineers in minority groups, international engineers, and people interested in Engineers without Borders," says Lambert.

Lambert, who is also past chair of AIChE's Central Savannah River (SC) Local Section, says that one advantage of the Virtual Section will be the range of presenters available to the online audience. "In the first year we will bring in AIChE leaders, industry leaders, process safety experts, and authors," says Lambert. The January 27 inaugural section meeting will feature a presentation by AIChE's 2011 President, Maria Burka, who will speak about research and innovation. "In addition," says Lambert, "we'll bring plant tours to our members instead of expecting them to drive two or three hours to attend a local section tour in an outlying area."

Organizers are also planning to offer career support for unemployed and underemployed engineers, as well as other forms of mentoring.

Article continues on next page

Institute News

Greg Stephanopoulos Recognized for Innovation in Industrial Biotechnology

regory Stephanopoulos, the Willard Henry Dow Professor of Chemical Engineering at the Massachusetts Institute of Technology and chair of the managing board of AIChE's Society for Biological Engineers (SBE), has been honored by the Biotechnology Industry Organization (BIO; www.bio.org) with its George Washington Carver Award for Innovation in Industrial Biotechnology. Stephanopoulos was recognized for his pioneering work in the field, in particular for metabolic engineering and its practical application to industrial processes. The award was presented on June 29 during the 2010 World Congress on Industrial Biotechnology and Bioprocessing in Washington, DC.

The George Washington Carver Award was created by BIO to honor the legacy of one of the founding fathers of modern industrial biotechnology. It is given to people in academia, government and the private sector who have made a significant contribution to industrial biotech-

nology innovation as the core technology for the utilization of renewable resources and advancement of biobased value chains.

Stephanopoulos is a leader in the field of metabolic engineering, and co-author of the textbook *Metabolic* Engineering: Principles and Methodologies, which laid the educational and engineering foundations of this field. He has transferred laboratorydeveloped technologies to industrial processes and co-founded start-up companies to produce antimicrobial peptides and biofuels. He has developed processes that integrate highly engineered microbes in industrial settings to produce amino acids, such as lysine and isoleucine; indandiol, an essential precursor of the AIDS drug Crixivan; and important diterpenes, such as lycopene and taxadiene, a precursor to the cancer drug Taxol. His current work focuses on engineering a microbe for cost-effective production of oil and biodiesel.

Stephanopoulos notes that his

approach emphasizes "the importance of engineering microbes not for the production of token amounts of bioproducts, but for the cost-effec-



tive conversion of renewable resources to useful bioproducts and biofuels. This is the essence of a bio-based economy." He adds, "Manufacturing from renewable resources will grow steadily as more processes are developed, and since it cannot be done offshore, its contribution to the national welfare will also increase. This suggests a bright future for industrial biotechnology and the technologies that enable it, such as metabolic engineering."

Accompanying the award is a George Washington Carver scholarship, given to a graduate student studying in the field of industrial biotechnology. The 2010 award is sponsored by the Iowa Biotechnology Association.

Virtual Local Section (cont'd)

A further objective of the planning committee is to have the Virtual Section concept stimulate member activity that might help to restore and invigorate sections that have been dormant. "Virtual Section programming can be used as needed by local sections to supplement what they are currently offering," says Lambert. "We hope that this will strengthen struggling sections and will result in more active sections throughout AIChE."

For information about the Virtual Section and its upcoming meetings, or to join the leadership team, visit the Virtual Section website at http:// virtual.aiche.org, or contact Dan Lambert at virtualchair@aiche.org.

AICHE BLOG WILL KEEP **ANNUAL MEETING ATTENDEES** "ChEnected"



ChEnected — the AIChE Blog (www.chenected.com) — is the Institute's newest social network, and a daily destination for a growing number of AIChE's cyber citizens.

Beginning in October and on into December, Chenected will not only be the online community for chemical engineers, it will be the online home for attendees of this year's Annual Meeting (Nov. 7-12 in Salt Lake City, UT). Anybody with an interest in what's happening at the Annual Meeting is invited to log-in to ChEnected and participate — whether they plan to be in Salt Lake City or not.

AIChE meetings have always been a great place for chemical engineers to meet and reconnect. Through ChEnected, engineers will be able to start interacting before the meeting begins and continue the connection after the meeting ends. Those unable to attend the meeting will be able to follow along with the meeting via ChEnected and its related Facebook and Twitter pages.

Additionally, fans of ChEnected who stop by the Annual Meeting's ChEnected booth will receive a limited-edition T-shirt, as thanks for supporting the blog.

Join the Annual Meeting discussion at www.chenected.com, and keep current by clicking the Facebook or Twitter icons.



In Memoriam: **Eric Snyder, AIChE Fellow**

ric Snyder, an AIChE Fellow and an active participant in North Jersey Local Section activites, died on Sept. 8, 2010. He was 66 years old and lived in West Orange, NJ.

Born in Brooklyn, NY, Snyder received a BS in chemical engineering at Brooklyn Polytechnic Institute (now Polytechnic Institute of New York Univ.), and later earned an MBA at Fairleigh Dickinson Univ. His career in chemical engineering included tenures at Dock Resins Corp., Schering Plough, and Rutgers Univ.

He was an officer and leader of AIChE's North Jersey Section for many years. In addition to his AIChE volunteer activities, Snyder was active in the community. He was a leader with the Essex County (NJ) Council of the Boy Scouts of America and the Jewish Committee on Scouting, earning several awards for his contributions.

Snyder also founded the Yogi Berra Celebrity Golf Tournament to aid disabled young people in Essex County. This charitable work, along with his other outreach activities, was the basis for Snyder receiving AIChE's Award for Service to Society in 1995.

He is survived by his wife, Joanne; a son, Ethan; his sisters; and his friends in the chemical engineering community.

OBITUARIES

Anthony Bunk, 96, Greenwich, CT

Conway C. Burton, 90, Evanston, IL

James A. Clark, 92, Phoenix, AZ

Richard Fielitz, 88, Wayne, PA

Thomas F. LaGess, 90, Georgetown, TX

Daniel A. Petrino, 83, Hamilton, NJ

Thomas J. Regan, 73, Houston, TX

Robert C. Reinhardt, 96, Midland, MI

Lawrence J. Russo, 54, Waldorf, MD

Frederick B. Sellers, 92, Denver, CO

Joseph P. Tassoney, 84, Diamond Bar, CA

Frank J. Zeleznik, 78, Rocky River, OH

AIChE Calendar



Conferences

For information and registration details, visit www.aiche.org/conferences or call Customer Service at 1-800-242-4363 or 1-203-702-7660 (outside the U.S.)

OCTOBER Regional Process Technology Conference 7–8, 2010 Moody Gardens Hotel • Galveston, TX

NOVEMBER 2010 AICHE Annual Meeting

7-12, 2010 Salt Palace Convention Center • Salt Lake City, UT

JANUARY 2nd International Congress on Sustainability 9-13, 2011 Science and Engineering (ICOSSE '11)

JW Marriott Starr Pass Resort . Tucson, AZ

JANUARY

SBE's 3rd International Conference on 16–19, 2011 Biomolecular Engineering Grand Hyatt San Francisco • San Francisco, CA

MARCH 2011 AIChE Spring Meeting

13-17, 2011 Hyatt Regency Chicago • Chicago, IL

Offshore Technology Conference (OTC) 2011 2-5, 2011 Reliant Park • Houston, TX

5-8, 2011

JUNE AICHE-DECHEMA Global Conference on Sustainability in the Process Industries (ESPI)

Hong Kong Univ. of Science and Technology . Hong Kong, SAR, China



Scheduled Webinars

Register and view live and archived webinars at http://www.aiche.org/webinars/

2:00-3:00 PM ET Presented by Dr. Donald R. Woods

0CT0BER 6, 2010 Process Troubleshooting

2:00-3:30 PM ET

00T0BER 13, 2010 AlChE's Leadership Webinars: ChemE Essentials from Academic Authors — Session One: Engineering Education in 2015 (or sooner)

Presented by Dr. Richard M. Felder

2:00-3:00 PM ET

0CT0BER 20, 2010 Risk Management Issues Affecting **ChemE Consultants**

Presented by Richard A. Kissel, Esq. (Free for AIChE Members)

2:00-3:00 PM ET

0CTOBER 27, 2010 Spreadsheet Techniques and Problem Solving for Chemical Engineers

Presented by Dr. David Clough

NOVEMBER 3, 2010 Investing in 2011 2:00-3:00 PM ET Presented by Larry N. Grogan

(Free for AIChE Members)

NOVEMBER 17, 2010 2:00-3:00 PM ET

Critical Water Issues for the Chemical Process Industries

Presented by David A. Klanecky

2:00-3:00 PM ET

DECEMBER 8, 2010 Get Your Professional Engineering Registration Now! Why It is Important, and How to Do it Presented by Scott D. Love, Dr. Peter B. Lederman, and

James B. Porter (Free for AIChE Members)