

## AIChE Elects New Fellows

Fellow candidates are nominated by their peers, and must have significant chemical engineering practice (generally 25 years) and have been a member of AIChE for at least 10 years, with at least three years as a senior member. Here are some of the recently elected Fellows. More information is available at [www.aiche.org/community/fellows](http://www.aiche.org/community/fellows).



**Charles A. Clerecuzio, P.E.**, has 30 years of experience in the biotech, pharmaceutical, chemical, biofuels, food, and oil and gas industries. He has expertise in process design, project management, engineering, construction, startup, and commissioning and validation of process equipment and process industry facilities. He serves on industrial advisory boards at the Univ. of Akron, Rutgers Univ., and Rowan Univ., and is also an adjunct professor at Rutgers and Rowan. He is a licensed Professional Engineer and a Certified Pharmaceutical Industry Professional (CPIP).



**Steve D. Emerson, P.E.**, is President of Emerson Technical Analysis (Corpus Christi, TX, and Las Vegas, NV), where he specializes in risk management of hazardous materials. He previously cofounded a steel company after serving in executive positions with Kerr-McGee, Stauffer, and Keystone Steel. He has chaired AIChE's Process Safety Management Mentoring (PSM<sup>2</sup>) Symposia and the Process Plant Safety Symposium, and serves on the Technical Advisory Committee at Texas A&M Univ.'s Mary Kay O'Connor Process Safety Center. He earned his PhD at the Univ. of Arizona, where he was also an engineering faculty member.



**Zenaida Otero Gephardt, P.E.**, is an associate professor of chemical engineering at Rowan Univ., where she has served as director and associate dean of engineering. She was a visiting professor at Chile's Universidad de La Serena and Universidad del Norte-Coquimbo, and was a research engineer at DuPont. She chairs AIChE's Societal Impact Operating Council and is a past chair of the Delaware Valley Section. She earned MS and PhD degrees in chemical engineering at the Univ. of Delaware. She is the 2013 recipient of the Advancement of Women Award from the Delaware YWCA.



**Randy S. Lewis** is a professor and the chair of chemical engineering at Brigham Young Univ. (BYU), and a former faculty member at Oklahoma State Univ. He chairs AIChE's Education and Accreditation Committee and is a past chair of the Career and Education Operating Council and the Student Chapters Committee. His research interests include biomaterials development, engineering education, the use of renewable resources to produce chemicals, and the integration of engineering and sociology in product development for the developing world. He earned his BS and PhD in chemical engineering at BYU and MIT, respectively.



**Peter N. Pintauro** is the H. Eugene McBrayer Professor of Chemical Engineering at Vanderbilt Univ., where he served as department chair from 2008 to 2013. He was the past chair of chemical engineering at Case Western Reserve Univ. His research is in the areas of electrochemical engineering, membrane science, and organic electrochemical synthesis. His recent efforts focus on fabricating new ion exchange membranes and new electrode architectures for hydrogen/air and direct methanol fuel cells. He is a Fellow of the Electrochemical Society and a past president of the North American Membrane Society.



**Freeman E. Self, Jr.**, is a process engineer and process safety specialist at Bechtel Corp. (Houston, TX), where he is a Bechtel Distinguished Engineer. He served on AIChE's Board of Directors (2011–2013), and is a past chair of the Career and Education Operating Council. He is treasurer of AIChE's Fuels and Petrochemicals Div. and a longtime leader of the South Texas Section, where he helped launch initiatives for member employment and for young professionals. He also serves on AIChE's Webinar Committee and Strategic Planning Committee. He earned BChE, MSChE, and MBA degrees from Georgia Tech, Rice Univ., and the Univ. of Houston, respectively.

# AICHE Addresses Climate Change

AICHE members said in a recent online survey that carbon management/adaptation was second only to energy as a priority issue for the field. At the same time, AIChE's members have varied opinions about climate-data interpretations and policies.

Issues surrounding global climate change, particularly the assertion that these changes may be caused by industrial processes that release greenhouse gases, have placed chemical engineering in the spotlight. Chemical engineers are masters of key technologies — such as carbon capture — that can control such releases, and AIChE has examined how it can best help chemical engineers to communicate and work more effectively on the issue.

AIChE's Public Affairs and Information Committee (PAIC) has developed an Institute policy statement on climate change. The policy, approved in June 2014 by AIChE's Board of Directors, states that the Institute's most appropriate role as a professional society is to provide needed technical information to its members, to government policy-makers, and to the public.

At the same time, the policy explicitly states that AIChE takes no position on the extent or causes of climate change, leaving such data analyses and predictions to climate scientists. Chemical engineers respect data and careful modeling, while being well aware that both data and models have uncertainties and potentially varying interpretations.

According to the PAIC's Mary Ellen Ternes and Phil Westmoreland, who led the policy's development, AIChE and its members are already engaged in climate-related issues in many ways:

- Chemical engineers perform research and technology development for advancing energy, water, transportation, agriculture, and environmental and resource sustainability as they relate to climate change.
- Many of AIChE's technical divisions and forums provide meeting sessions on technology responses to climate issues. For example, the Separations Div. conducts sessions on CO<sub>2</sub> capture, and the Environmental Div.'s Regulatory and Climate Change sections have organized well-attended sessions devoted to climate-change regulations.
- AIChE created its Institute for Sustainability, Center for Energy Initiatives, and International Society for Water Solutions in response to needs expressed by chemical engineers and their companies.

With that background in mind, the Institute's responsibilities are expressed as:

*For chemical engineers, AIChE provides professional*

information and education about technology developments and how to respond to government regulations, as well as reporting the estimates of potential changes in temperature, precipitation, sea level, and extreme weather events that might impact facilities, transportation and supply networks, and infrastructure. This subject matter is regularly addressed in AIChE's meeting programs, short courses, and publications.

*For policy-makers, AIChE provides independent, well-referenced information regarding the technological feasibility of proposed responses and regulations, and how chemical engineering expertise can contribute to progress and solutions.*

With service to society a key tenet of AIChE's vision, *for the public*, AIChE relies on its members to help communities discuss and interpret climate-change reports and assessments. AIChE supports these efforts by educating its members about chemical engineering principles at the center of such critical issues through publications and social media. These reports are not meant to advocate policy positions but rather to help AIChE members contribute knowledgeably to public discussions.

The PAIC works to expand the Institute's interaction with government, prioritizes issues that impact chemical engineers, and helps chemical engineers who conduct grassroots outreach. To read the climate statement, to learn more about the PAIC, or to get involved, visit [www.aiche.org/PAIC](http://www.aiche.org/PAIC).

### CLARIFICATION: PROFESSIONAL LICENSURE AND THE INDUSTRIAL EXEMPTION

The May 2014 issue of *CEP* contained an article about AIChE's position on professional licensure and the so-called industrial exemption (Institute News, p. 56). A sentence that describes the industrial exemption has been clarified to read:

The industrial exemption policy excludes industrial employers from requirements to place only engineers who hold professional licensure in the states in which they are practicing (even temporarily) in positions of "responsible charge."

The online version of the article (available at [www.aiche.org/cep](http://www.aiche.org/cep)) has been revised, and also offers an elaboration on the concept of responsible charge.

## AICHE Expands Global Presence with International Conferences

This summer, AIChE built its global network by sponsoring or collaborating on international conferences in five countries. These conferences — devoted to topics ranging from process safety to biological engineering to alternative fuels — are valuable because of the diversity of experiences and perspectives embodied by the participants, as well as their focus on specific technologies and industries and the unique challenges that need to be addressed in each geographic location.

AIChE's Society for Biological Engineering and its Metabolic Engineering Society hosted the **Metabolic Engineering X Conference** in Vancouver, British Columbia, Canada, June 15–19. In July, AIChE collaborated with other scientific societies on the U.S. National Science Foundation's **Research Coordination Network Conference on Pan American Biofuels and Bioenergy Sustainability**, held in Recife, Brazil, for the benefit of science and engineering researchers in North, Central, and South America. And this month, AIChE's Center for Chemical Process Safety (CCPS) is sponsoring its second **AIChE CCPS Asia-Pacific Conference** (Aug. 7–8 in Perth, Australia), which

brings information on process safety and chemical engineering technology to oil and gas industry professionals in Asia, Australia, the Pacific Island nations, and beyond.

The following conferences balance out this summer's international events:

### 2nd Center for Chemical Process Safety (CCPS)

**China Conference on Process Safety**, Aug. 28–29, 2014, Qingdao, China — Presented in collaboration with the China Univ. of Petroleum (Beijing) and the China Chemical Safety Association, this conference brings together engineers, government representatives, and academic researchers in China and internationally to share advances in process safety. The conference is an offshoot of CCPS's Global Congress on Process Safety, which is held annually in connection with AIChE's Spring Meeting — the next installment of which will take place Apr. 26–30, 2015, in Austin, TX.

**59th Annual Safety in Ammonia Plants and Related Facilities Symposium**, Sept. 7–11, 2014, Vancouver, British Columbia, Canada — This long-established conference, one of AIChE's first to be held regularly at international locations, is dedicated to helping engineers and chemical plant managers in the ammonia, nitric acid, methanol, and related industries around the world to innovate safe processes and run safe operations. Hundreds of representatives from dozens of countries participate at each year's symposium.

**6th Latin American Conference on Process Safety**, Sept. 15–17, 2014, Buenos Aires, Argentina — Another spinoff conference of CCPS's Global Congress on Process Safety, the Latin American Conference is a recent addition to AIChE's and CCPS's worldwide effort to prevent industrial accidents by promoting lifelong learning and continual improvement in process safety. The conference's technical presentations and lectures are offered with English and Spanish translations.

More information about these and other conferences sponsored by AIChE and its affiliates is available at [www.aiche.org/conferences](http://www.aiche.org/conferences).

### AIChE Election Opens in September

The July issue of *CEP* featured position statements of president-elect and director candidates for the 2015 AIChE Board. The slate of candidates is listed below, and the candidates' platforms are available on the web at [www.aiche.org/election](http://www.aiche.org/election).

Paper ballots will be mailed to all AIChE Fellows, Senior Members, and Members on Sept. 2. Voting, including electronic proxy voting, will commence on Sept. 16. All paper ballots and electronic proxies must be received by Oct. 21, 2014.

Election results will be announced in November at AIChE's Annual Meeting in Atlanta, GA, and in the December issue of *CEP*. If you have questions about the election, contact [election@aiche.org](mailto:election@aiche.org).

#### For President-Elect

**Thomas R. Hanley**, Auburn Univ. (Auburn, AL)

**Gregory N. Stephanopoulos**, Massachusetts Institute of Technology (Cambridge, MA)

#### For Director (four to be elected)

**Abdulmohsen D. Almajnouni**, Saudi Arabia General Investment Authority (SAGIA; Dhahran, Saudi Arabia)

**Richard V. Calabrese**, Univ. of Maryland (College Park, MD)

**Alan E. Nelson**, Dow Chemical Co. (Midland, MI)

**John O'Connell**, Univ. of Virginia (Charlottesville, VA) (retired)

**Timothy O. Odi**, Chevron Phillips Chemical Co. (Kingswood, TX)

**Anne Skaja Robinson**, Tulane Univ. (New Orleans, LA)

**Sharon M. Robinson**, Oak Ridge National Laboratory (Oak Ridge, TN)

**S. Shariq Yosufzai**, Chevron Corp. (San Francisco, CA)

### In Memoriam

**Mei Ling Chng**, 32, Library, PA

**Ron Collins**, 67, Kearney, NJ

**Floyd M. Knowlton**, 95, Walnut Creek, CA

**Malcolm M. Renfrew**, 103, Moscow, ID

**James D. Shiffer**, 76, Alamo, CA

**Kenneth G. Weaver, Jr.**, 66, Lancaster, PA

**Byron B. Woertz**, 99, North Hills, CA