Candidates Announced for 2012 AIChE Election

Petition Candidate Filings Due April 25

AIChE's Nominating Committee has announced the slate of candidates for the positions of president-elect, secretary, and director for 2013. In the July issue, *CEP* will publish profiles of the candidates that describe each person's qualifications and platform.

The president-elect will be elected to a three-year term, serving one year each as president-elect, president, and past-president. The secretary and directors are elected for three-year terms. Voting by paper and electronic proxy ballot will begin July 25 and end September 12. To keep up to date on this year's election, visit www.aiche.org/election.

For President-Elect

Otis A. Shelton, *Praxair, Inc.*

John C. Tao, *O-Innovation Advisors LLC*

For Secretary

James C. Hill, *Iowa State Univ.*

Christine B. Seymour, *Pfizer*

For Director (four to be elected)

Timothy J. Anderson, *Univ. of Florida*

Raymond A. Cocco, *Particulate Solid Research, Inc.*

Thomas F. Degnan, *ExxonMobil Research & Engineering Co.*

L. S. Fan, *Ohio State Univ.*

Paula T. Hammond, *Massachusetts Institute of Technology*

Annette A. Johnston, *Abbott Laboratories*

Michael R. Poirier, *Savannah River National Laboratory*

Subhas Sikdar, *U.S. Environmental Protection Agency*

Are You Interested in Running?

Members interested in running for the AIChE Board election or nominating another member can do so as a petition candidate.

Any Fellow, senior member, or 4-year member of the Institute who would like to run for president-elect, secretary, or director can file as a petition candidate with the Office of the Secretary by April 25, 2012. 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 email. For more information on filing as a petition candidate, please contact election@aiche.org.

AIChE Board of Directors Election Guidelines

In order to keep campaigning on a high professional level and to maintain fairness to all candidates, the Institute will rely on the integrity of the candidates. The following are the election guidelines:

(1) Campaigns shall be reasonable in manner, inexpensive, personally oriented and financed by the candidates themselves (that is, not financed by any organization, company, university, or local section of AIChE).

(2) Campaign advertising will be limited to the candidate's personal statement presenting his/her qualifications and views as published in *CEP* and prescribed content on the AIChE web page. The web page can provide an email address of the candidate for more details on his/her positions, in order to foster a dialog between the candidate and the voting membership.

(3) Campaign committees of friends of the candidates may be formed, but all mailing costs are to be borne by individuals. Email contacts are permitted, but no address lists are to be provided by AIChE staff, local sections, or divisions.

(4) No local section, division, or committee shall be allowed to send out any candidate's campaign material in their official mailing, nor should they support or oppose any candidates.

(5) Electioneering at AIChE meetings shall be prohibited. This includes distribution and posting of campaign materials.

(6) Sitting Board members should not endorse candidates running for election.

The Board recognizes that it is not practical to develop a complete set of electioneering rules to police each candidate's professional vitality and integrity. The Board is convinced, however, that it can depend on the membership to enforce these regulations by voting only for candidates who observe them.

AIChE 2011 Election Timeline

April 25, 2012: Petition Candidate Cut-Off Date

July 25, 2012: Election Ballot Mail Date

September 12, 2012: Election Ballot Receipt Deadline

September 20, 2012: Tellers Committee Meeting

October 29, 2012: Election Results Announced at AIChE Annual Business Meeting in Pittsburgh, PA

Meet Some of AIChE's New Fellows

In January, AIChE's Board of Directors conferred the title of Fellow on ten members of the Institute. These tenured members join a roster of respected chemical engineers who have made significant contributions to the profession.

Here are some of the newly elected Fellows. More Fellows will be introduced in future issues of *CEP*. For more information about AIChE Fellows, visit www.aiche.org/About/OurMembers/fellow.aspx.

John P. Congalidis, P.E., is a research planning fellow with DuPont Central Research and Development (Wilmington, DE), where his career has included assignments in advanced process control systems implementation, polymer products development and manufacturing, kinetic modeling, strategic planning, and research management. He has published journal articles and book chapters in the area of polymerization reactor modeling and control. He received his diploma in chemical engineering from the National Technical Univ. of Athens (1976) and his chemical engineering PhD from MIT (1981). He is currently a director of AIChE's Computing and Systems Technology (CAST) Div.

John L. Falconer is the Mel and Virginia Clark Professor and a President's Teaching Scholar at the Univ. of Colorado, Boulder. He has published more than 200 papers in the areas of zeolite membranes and heterogeneous catalysis, and these papers have been cited some 7,800 times. He has received numerous teaching awards, including the Hazel Barnes Prize — the highest faculty recognition for teaching and research given by the Univ. of Colorado. He has led an effort to develop screencasts (short screen-capture teaching videos) and ConcepTests for chemical engineering courses, which are available online at www.LearnChemE.com.

Laura J. Gimpelson, P.E., is President of LG Environmental Engineering, an engineering firm located in Texas and Florida. She has over 34 years of experience in the environmental, health, and safety field, creating and implementing sustainable compliance and corrective action programs for public and private clients. In Houston, TX, she established the regulatory and judicial precedent for using risk-based closure standards to remediate impacted property. She champions the use of remediation technologies that require less energy and fewer resources than current presumptive processes. She is an active leader in AIChE and the Society of Women Engineers.

Shaoyi Jiang is the Boeing-Roundhill Professor of Chemical Engineering and Adjunct Professor of Bioengineering at the Univ. of Washington, Seattle, where his research focuses on interfacial phenomena for chemical and biological systems, biomaterials, and biosensors. His group is studying molecular-level nonfouling mechanisms and developing ultra-low-fouling zwitterionic materials for biomedical and engineering applications. Jiang received his PhD in chemical engineering from Cornell Univ. in 1993, and was a postdoctoral fellow at the Univ. of California at Berkeley and a research fellow at Caltech. He received a National Science Foundation CAREER Award in 2001.

G. Glenn Lipscomb is Professor and Chair of Chemical and Environmental Engineering at the Univ. of Toledo. He previously held positions at the Univ. of Cincinnati and at Dow Chemical, where he developed membrane processes for nitrogen production from air. The author of more than 60 publications, including three patents, his research focuses on membrane separations. He is a past board member and president of the North American Membrane Society (NAMS), and served ten years as president of Omega Chi Epsilon, the chemical engineering honor society. He was named to the Editorial Board of the *Journal of Membrane Science* in 2009.

Thomas O. Spicer, III, P.E., is the Martin Leadership Chair and Head of the Ralph E. Martin Dept. of Chemical Engineering at the Univ. of Arkansas. His research involves the assessment of hazards from airborne contaminants, fires, and explosions. He has developed models of the atmospheric dispersion of hazardous materials, and his work is used by the U.S. Coast Guard, Environmental Protection Agency, Dept. of Transportation, and Federal Energy Regulatory Commission for hazard assessment purposes. He leads AIChE's Safety and Chemical Engineering Education (SAChE) Committee's efforts to distribute instructional materials online.

Elmer Gaden, Biochemical Engineering Pioneer and Teacher

Elmer L. Gaden Jr., the Wills Johnson Professor Emeritus of Chemical Engineering at the Univ. of Virginia, and former professor and chair of chemical engineering at Columbia Univ., died on Mar. 10, 2012, in Charlottesville, VA, at the age of 88.

Described in a 1971 article in *Chemical and Engineering News* as the "Father of Biochemical Engineering," Gaden taught chemical engineering for more than 50 years, 26 of them at his alma mater of Columbia. As a PhD chemical engineering student at Columbia, Gaden wrote a groundbreaking 1949 dissertation that quantified the amount of oxygen necessary to fuel the fermentation process used to produce penicillin. This research formed the basis for mass production of penicillin and a wide range of other antibiotics. In 2009, the National Academy of Engineering and Ohio Univ. recognized this achievement by awarding Gaden the Fritz J. and Dolores H. Russ Prize, the world's top honor in bioengineering.

Before receiving his chemical engineering education at Columbia, Gaden served as a communications officer in the U.S. Navy during World War II, and later spent a year as a researcher at Pfizer. After earning his PhD, he was a teacher, researcher,

Photo: National Academy of Engineering

and professor at Columbia from 1949 to 1974, establishing Columbia's biochemical engineering program and twice chairing the department. After leaving Columbia, he became Dean of the College of Engineering, Mathematics, and Business Administration at the Univ. of Vermont, before returning to the classroom at the Univ. of Virginia in 1979. He retired in 1994.

Gaden published widely, and in 1959 established the international research journal *Biotechnology and Bioengineering*, which he edited for 25 years. In the 1950s, Gaden was also influential in establishing AIChE as a leading society in the fields of biotechnology and bioengineering.

Elected to the National Academy of Engineering in 1974, Gaden was also a Fellow of AIChE, and received the Institute's first Food, Pharmaceutical, and Bioengineering Award (1970) and the Founders Award (1988). In addition to the 2009 Russ Prize, other honors included: the Chemical Engineering Lectureship Award from the American Society of Engineering Education; the American Chemical Society's Marvin Johnson Award in recognition of his research contributions to modern biochemical technology; and Columbia Univ.'s Egleston Medal for distinguished engineering achievement. Columbia also established the annual Gaden Lecture, which brings a distinguished lecturer to the university.

Gaden said that his greatest accomplishment was teaching, and he was especially happy to receive such honors as Columbia's Great Teacher Award and the Mac Wade Award from the students of Virginia's School of Engineering and Applied Science.

In retirement, Gaden remodeled his home, built model planes and ships, and loved to travel, sharing his wife's love of nature through birdwatching. He was also a volunteer, teaching illiterate adults to read. In his passing, he remains a teacher, having donated his body to science.

He is survived by his wife, Jennifer, and his three children and their families.

Society for Biological Engineering Co-Hosts Stem Cell Conference, Apr. 29 – May 2

"Designing cellular therapies" will be the overriding theme when AIChE's Society for Biological Engineering (SBE) and the International Society for Stem Cell Research (ISSCR) co-host the 3rd International Conference on Stem Cell Engineering (ICSCE; http://stemcell.aiche.org). This interdisciplinary conference will take place Apr. 29 to May 2, 2012, at the Sheraton Hotel in downtown Seattle, WA.

The biennial stem cell engineering conference brings together engineers, biologists, and clinicians who are working on cellular therapies — joining forces to advance the understanding of stem cell biology, cell engineering, and tissue regeneration, as well as to accelerate the development of cell-based therapeutics and bioprocesses.

The ICSCE program will kick off on Sunday evening, Apr. 29, with a keynote address by Gordon Keller, a senior scientist and leader in embryonic stem cell research at the Ontario Cancer Institute. During the following days, expert-led sessions will explore topics such as: stem cell analysis and characterization; cellular reprogramming; models of stem cell development and disease; engineering environments to control cell fate; stem cells in tissue engineering and regenerative medicine; clinical translation of cellular therapies; immunity, inflammation, and fibrosis; adult stem cells; pluripotent stem cells; and more.

The 2010 ICSCE attracted some 300 registrants, representing 190 organizations and 20 countries. Even more people are expected at this year's event.

For up-to-date program and registration information, visit http://stemcell.aiche.org.

Nominations Extended for Some Industry Awards

AIChE's Awards Committee has extended the nomination deadline for some of the recently inaugurated Institute Awards that recognize contributions in industrial practice. Extended deadlines apply to:

• Engineering & Construction Award; Industrial Research & Development Award; Process Operations Award — Nomination deadline: Apr. 15, 2012.

• Industrial Progress Award (New in 2012) — Nomination deadline: May 1, 2012.

The awards will be presented at the Oct. 2012 AIChE Annual Meeting in Pittsburgh, PA. Information about each award, and nomination instructions, can be found at www.aiche.org/InstituteandBoardAwards. Questions about the nomination process may be addressed to awards@aiche.org.

József M. Berty, AIChE Fellow

József M. Berty, a former professor at the Univ. of Akron, and a project manager at Union Carbide, died on Mar. 1, 2012, in Allentown, PA, at age 89.

Born in Hungary, Berty earned a doctorate in chemical engineering at the Univ. of Budapest, and was an explosives manufacturer during World War II. He taught at East Germany's College of Leuna-Merseburg and at Hungary's Univ. of Veszprém, publishing extensively about reaction engineering and catalysis.

During the Hungarian Revolution, he escaped to Austria, and then to the U.S. In 1957, he began a career at Union Carbide, where he introduced recycle reactors for testing catalyst and process kinetics. After retiring, he taught chemical engineering at the Univ. of Akron from 1983 to 1989.

In 1981, he established Berty Reaction Engineers Ltd., where he designed experimental units for chemical and petrochemicals companies.

Berty's autobiograhy, *My Explosive Life,* was published in 2012. He is survived by his children.

In Memoriam

Stephen C. Franke, 67, Kingwood, TX

Robert W. Kosmyna, 52, Perrysburg, OH

Frederick G. Schumacher, 90, Glen Mills, PA

Leslie W. Shemilt*, 92, Hamilton, Ontario

David B. Todd, 86, West Windsor, NJ

Basil Zuber, 45, Visp, Switzerland

* AIChE Fellow

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.)

APRIL 29 – MAY 2, 2012	**Society for Biological Engineering's (SBE) 3rd International Conference on Stem Cell Engineering** Sheraton Seattle • Seattle, WA
APRIL 30 – MAY 3, 2012	**2012 Offshore Technology Conference** Reliant Center • Houston, TX
JUNE 5–7, 2012	**AIChE Process Development Symposium** HYATT house • King of Prussia, PA
JUNE 24–27, 2012	**Society for Biological Engineering's (SBE) 6th International Conference on Bioengineering and Nanotechnology** Univ. of California • Berkeley, CA
JULY 3–5, 2012	**4th Latin American Conference on Process Safety** Hotel Sofitel Rio de Janeiro Copacabana • Rio de Janeiro, Brasil
SEPT. 9–13, 2012	**57th Annual Safety in Ammonia Plants and Related Facilities Symposium** Hyatt Regency Chicago • Chicago, IL
OCT. 28 – NOV. 2, 2012	**AIChE Annual Meeting** The David L. Lawrence Convention Center • Pittsburgh, PA

Webinars

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

APR. 10, 2012 2:00–3:00 PM ET	**Maintenance and Reliability for Chemical Engineers, Part 4: Building the Business Case** Presented by David A. Rosenthal, P.E.
APR. 18, 2012 2:00–3:00 PM ET	**Understanding Those Chemical Engineers!** Presented by Jack Hipple
APR. 25, 2012 2:00–3:00 PM ET	**Understanding Why Bulk Solids Behave Differently Than Liquids** Presented by Eric Maynard
MAY 9, 2012 2:00–3:00 PM ET	**Patents and the America Invents Act: Strategies in View of Patent Law Reform** Presented by Heath Briggs
MAY 23, 2012 2:00–3:00 PM ET	**Energy Storage: Research Directions, Applications, and Limitations** Presented by Dr. Tim Mueller, Dr. Leon Shaw, and Dr. Trung Nan Nguyen; Moderated by Anita Luong