

Election News

2011 Election: Directors



Timothy J. Anderson

Tim Anderson is a Distinguished Professor at the Univ. of Florida and Director of the state-wide Florida Energy Systems Consortium. He received his education in chemical engineering from Iowa State (BS) and the Univ. of California, Berkeley (PhD). Tim's academic career has been somewhat unusual in that he has been able to

pursue discipline research (electronic materials processing with over 200 publications and 6 patents), education research (over 25 publications), and administration (department chair, dean of research). He is editor of the *Chemical Engineering Education* journal, past consulting editor of *AIChE Journal* and a Fellow of AIChE and the American Society for Engineering Education (ASEE).

Tim has a continuous record of service to AIChE over the past 30 years, serving as founding member and chair of the Chemical Engineering Technology Operating Council (CTOC) and Program Chair for the 1995 Annual Meeting; chairing the Computational Molecular Science and Engineering Forum (ComSEF) formation committee; chairing the Executive Board of the National Program Committee (EBPC); establishing the electronic materials programming area 8e; and chairing the Materials Engineering and Sciences Div.

Statement: This is certainly an exciting time for our profession with our expansion into the life sciences and nanotechnology as well as the changing energy and sustainability drivers. Further changes are anticipated in the demographics of our profession, the structure of benefits offered by employers, and the way we acquire and use information. More than ever, a strong professional society is needed to provide leadership and balanced services to its members.

It is important that all chemical engineers value participation in AIChE and have pride in their profession and professional organization. If elected to the Board of Directors, I would work with the Board and other AIChE entities to address the following priorities:

- Expand cost-effective professional development opportunities and career services to our members through better use of technology.
- Ensure membership relevance to the full community with focus on attracting students and recently graduated chemical engineers as well as those from related disciplines.
- Make AIChE the premiere forum for industry-academic-government technical dialogue.
- Increase access to technical programming through society partnerships and incubation.
- Leverage the network and buying power of the Institute to provide members access to a full range of benefits including job placement and financial resources.

Thank you for your consideration. I hope that you will allow me the opportunity to serve as a Director of AIChE during this time of considerable opportunity.



T. Bond Calloway, Jr.

Bond Calloway is the Alternative Energy Research Manager at Savannah River National Laboratory. He has served AIChE in roles focused on improving the quality and relevance of technical activities, including: 2009 Annual Meeting Program Vice Chair; Nuclear Engineering Div. Chair/Vice Chair/Director; Chemical

Engineering Technology Operating Council member; and Executive Board Programming Committee member. He was recipient of the first AIChE Herb Epstein Award for meritorious contributions to AIChE and the ChE profession. He currently serves as AIChE Foundation Trustee; Research and New Technology Committee Chair; and on the Energy Advisory Board. Bond brings to his AIChE service more than 25 years of industrial experience in R&D, design, construction, and operation of nuclear waste/chemical processes. He has been an NSF peer reviewer, authored more than 40 papers about energy/environmental research, and led the development of three special energy sections for *CEP*. He reviews AIChE grant opportunities for AIChE staff. He received his BSChE from Auburn Univ. and is an R&D100 award recipient.

Statement: If elected a Director, my top priority is expansion of AIChE's membership through value-added services and securing AIChE's financial future. As the world continues to struggle through economic crisis, it is important for AIChE to develop and expand web-based services that benefit all of our members, especially those affected by economic fluctuations. These additional benefits will attract and diversify our membership, thus sustaining AIChE. Through my work as Annual Meeting Program Vice Chair and Research and New Technology Chair, I developed a web-based survey that provides insight into energy research funding sources and reported the results in *CEP*. This type of enhancement illustrates additional value of AIChE to industrial, university, international, and most importantly, chemical engineering students and early career professionals who remain the cornerstone to securing AIChE's future. If elected, I will:

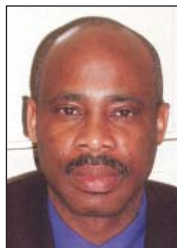
- Foster and participate in the development and startup of value-added, Institute-wide initiatives that foster university/industrial/governmental collaboration.
- Encourage development of web-based tools and services that reach out to members who may not normally be engaged in face-to-face AIChE meetings.
- Become an active leader to support student and early-career-based industrial programs.
- Provide a resource to review and develop grants for AIChE that will promote university educational projects in energy, water, and computing.
- Foster the development of regional meetings that can bring chemical engineering technology closer to our industrial and academic members.

I would appreciate your vote and support in the upcoming election.

To enable members to make informed selections, the candidates have provided overviews of their experience, as well as their plans for future programs and directions for the Institute. These messages are in each candidate's own words. President-Elect and Treasurer statements appeared in the June issue of *CEP*. Statements will also be posted at www.aiche.org/election.

Voting dates and deadlines: Ballots will be mailed on Aug. 9. Electronic proxy will also be available on this date. Directions for electronic proxy will be included with the ballot and emailed to members with email addresses on file. All ballots must be received by Sept. 7. The Teller's Committee will meet to verify the results of the election on Sept. 13. Election results will be announced in November at AIChE's Annual Meeting in Salt Lake City, UT, and in the December issue of *CEP*.

2011 Election: Directors



Emmanuel A. Dada

Emmanuel Dada is the Chief Technology Officer of ChemProcess Technologies, LLC, responsible for process intensification, innovative and emergent technologies in the areas of reactive distillation, microreactor technology, and energy-efficient processes. He worked for FMC for over 14 years, becoming an Associate Research Fellow in 2004. Prior to joining FMC in 1995, he had worked at Rohm and Haas Co. from 1989 to 1994. Emmanuel received his BSChE from Obafemi Awolowo Univ., Nigeria, and his MS and PhD in chemical engineering from Lehigh Univ.

An AIChE Fellow, Emmanuel is a member of the Admissions Committee, the Separations Div., and the Process Development Div. He was an active member of the Delaware Valley Local Section before he relocated to Houston in 2009, and now participates actively in South Texas Section meetings. He served as chair of the centennial General Arrangement Committee at the AIChE Annual Meeting in Philadelphia in 2008. He also served as chair of the Minority Affairs Committee (MAC) from 2000 to 2002, chaired its student scholarship program since 1999, and received the MAC Distinguished Service Award in 2000. He served two terms from 2006 to 2007 as chair of the Societal Impact Operating Council (SIOC) and as its secretary in 2009. In 2007, as chair of SIOC, he welcomed the idea of partnership with Engineers Without Borders (EWB) – USA, a nonprofit humanitarian organization, which eventually led to a memorandum of understanding (MOU) and a rewarding partnership between AIChE and EWB. For many years, Emmanuel represented FMC in AIChE's Center for Sustainable Technology Practices (CSTP), an industry consortium on sustainability issues. He served as a technical advisor representing AIChE on the recently released worldwide ETHICANA video on The Global Anti-Corruption Education and Training (ACET) initiatives to reduce corruption in the engineering and construction industry.

Statement: AIChE faces the challenges of maintaining its financial stability, reversing its declining membership, and improving relevance. If elected, as AIChE Director I will focus on:

- Providing greater value for members, improving members' understanding of the value that AIChE provides, and becoming more responsive and relevant to AIChE members.
- Identifying new services and business models that will lead to financial strength and operational effectiveness of AIChE.
- Reversing the declining membership and positioning AIChE on the path to becoming a global organization of chemical engineers through partnership with sister organizations worldwide.
- Making local sections more relevant and effective by also including virtual local sections.
- Encouraging and engaging students and Young Professionals, as they are the future of AIChE.



Karl V. Jacob

Karl Jacob is currently Fellow and Technical Manager for the Solids Processing Discipline within Engineering Sciences at The Dow Chemical Co. He received a BSChE in 1981 from Case Western Reserve Univ. He founded the Solids Processing Discipline at Dow in 1989 in order to meet the needs of the company in particle technology and solids processing, and has been recognized with several Dow awards for his technology contributions. In the early 1990s, he was a co-founder of AIChE's Particle Technology Forum (PTF), in response to an unmet need within the Institute. He received the Gary Leach Award for that work. Karl has served as both board member (1996–2000) and chair (2000–2002) of the PTF — representing the PTF to the larger worldwide solids processing community. He is currently Chair of the Nominating Committee for AIChE's Institute Awards program recognizing achievements by chemical engineers in industry. He serves as chair of the Univ. of Akron chemical engineering advisory board and routinely lectures on particle technology at several universities.

Statement: With the challenges we face in trends such as fresh water, sustainability, human health and energy, I believe that chemical engineers are well positioned to provide innovative solutions to these large societal problems. AIChE will play a key role in formulating and delivering technology-based solutions on many of these important issues. Chemical engineers are actively engaged across increasingly diverse sectors of industry and academia. Consequently, we need to explore ways to ensure that AIChE provides relevant services to our members. From my perspective, key issues for AIChE are:

- To fully explore the opportunities for delivery of educational offerings to the members, whether in the form of webinars, short courses or other emerging media. Use of multiple delivery mechanisms will enable us to reach all AIChE members and provide them with the right content at the right time at an affordable cost.
- As we slowly work our way out of the global recession, many in the Institute are having difficulty finding employment. It is a high priority to find ways to make the connection between these members and potential employers.
- To ensure that the programming at all of our national and regional meetings is topical, effective and current such that those in attendance will be better prepared to address global chemical engineering issues and feel they've received good value for their registration fee.

I would appreciate your vote and the opportunity to serve you as a Director of AIChE.

2011 Election: Directors



JoAnn Slama Lighty

JoAnn Slama Lighty is Professor and Chair of the Dept. of Chemical Engineering at the Univ. of Utah. She received her BS and PhD degrees in chemical engineering from the Univ. of Utah. JoAnn has received the National Science Foundation (NSF) Presidential Young Investigator Award, the

Society of Women Engineers (SWE) Distinguished Engineering Educator Award, and the Univ. of Utah's Distinguished Service to Women Award and Diversity Award. In addition to teaching and research, she has served in a variety of administrative positions, including Associate Dean for the College of Engineering and founding Director of the Institute for Combustion and Energy Studies. Her research interests include the formation of fine particles from combustion systems, coal combustion and chemical looping, and oxy-fuel combustion. Professor Lighty has been a member of AIChE for over 25 years. She has served as Secretary and a Director of AIChE's Environmental Div. and was recently elected as an AIChE Fellow.

Statement: As a Director of AIChE, I will continue to broaden the participation of all members (industrial, governmental, and academic) in the Institute. As evidenced by the number of AIChE technical divisions and forums, AIChE covers many specific subject areas, and participation and discussion amongst members in these diverse groups can lead to innovative solutions for the challenges facing our world. AIChE meetings are an ideal forum for discussions of innovation. For example, the recent focus on energy sessions at the meeting fosters interaction and discussion between colleagues in different divisions.

I will continue the emphasis on the involvement of student and early-career engineers in the Institute. While the ScaleUp program is effective for bringing students into AIChE, strategies must be in place to have the students continue their membership. Coordination between the Student Conference and Annual Meeting brings students and industry together and is an important learning opportunity. Students and early-career engineers are the future leaders, and their participation is critical to the future of AIChE.

In addition, AIChE services and programs must continue to meet the needs of the membership. It is important for AIChE Career Resources to play a role in helping connect potential employees with employers, as engineers face the challenges of job placement and changes. AIChE Education and Training programs are opportunities to engage the membership in career and personal development and can be used to ensure that members find value in being part of AIChE over the course of their careers.



Jeffery P. Perl

Jeff has 25 years serving the chemical/environmental industry in process-related subjects, including design, troubleshooting, and root cause forensic engineering regarding death-related or economic loss failures and USEPA Superfund remediation. ChE education: BS (1977) and PhD (1984), Illinois Institute of

Technology; post-doc, Brown Univ. (1984–85). Prior to graduate school, Jeff worked for Safety-Kleen in solvent recycling operations and development. Jeff spent 10 years as Air Force reservist in HQ assignments for the AF Civil Engineer and AF Surgeon General. Jeff is adjunct professor, Univ. of Illinois-Chicago (UIC; senior process design, 2008–present). AIChE service includes Chicago Section Chair (1993–1994); General Arrangements Chair, 1996 Annual Meeting; Research and New Technology Committee Chair (2005 and 2006); Environmental Div. Treasurer (1997–2001); Military Interaction Committee Chair (1995–2002); Career and Education Operating Council board (2008–present). Jeff is a Midwest AIChE Regional Conference organizer (2006–2009), NCEES ChE PE licensing committee member (2007–present) and an AIChE Fellow (2007).

Statement: Because of strong mentoring, I was fortunate early on to interweave my education and ChE work experience. This gave me an understanding of the fundamental importance of integrating ChE academic research with the demands of plant operations and industrial R&D. Air Force engineering exposed me to ChE activities within the government, most notably EPA, DOE and DOD. Threading together diverse member needs across industry, academia, government, and even public entities has been a lifelong continuing interest.

In Chicago, I work with our local section to mentor leaders and students alike, and to help develop programs that encourage high school and college student participation within AIChE, including support to our strong Young Professionals group and incorporating academia into all AIChE activities.

Experience has shown that AIChE is the logical, but not always obvious, one-stop shopping place for both technical growth and developing and sustaining lifelong networks so necessary to survival, as well as enjoyment. Helping young professionals see AIChE as a lifelong professional development home is another objective. Providing a forum for academia to interact with industry is also a special focus for me. At UIC, I developed a senior design course with engineering practitioners I have known through AIChE and my practice over 25 years, to tap into the vibrant academic/industry environment.

I also believe AIChE should continue to provide rational advice to the public at large and government crafters of energy, environmental and natural resources policy. For over 30 years, AIChE has been all of these things for me and I will continue to work to help make this so for all our members, both existing and potential.

2011 Election: Directors



Freeman E. Self

Freeman is a process engineer with Bechtel, specializing in process safety. He received a BChE from Georgia Tech, MSChE from Rice Univ. and MBA from the Univ. of Houston. Leadership and service to AIChE:

- Committed to local sections, he has served the South Texas Section (STS) in many positions.

As Chair in 1987, he led the STS through tough times, including resuming the annual regional conferences. He co-founded STS's Young Professional Group and helped start STS's employment program.

- Past Chair of the Career and Education Operating Council (CEOC), providing operating direction for local sections, student chapters, career services and educational programs.
- Treasurer of the Fuels and Petrochemicals Div.
- Original member of Prairie View A&M Univ.'s ChE Advisory Board; served as chair and continues on the Board
- Launched the initiative to provide websites for all local sections
- Lecturer for pre-conference courses and co-author of the award-winning AIChE book, "Refining Overview."

Statement: I will continue the great strides that AIChE has made in the last several years. AIChE is the chemical engineer's professional home, offering a wide range of technical information and global professional support, and I will advocate providing real value for our members. I invite all members to join me in tackling the important issues in chemical engineering. As Director, I will focus on the following:

- Strengthening career resources and tools. Creating certification programs, such as those being developed by the Institute for Sustainability, to enhance professional qualifications.
- Lowering membership costs is essential. This can be achieved by establishing new sources of revenues such as corporate and public partnerships and grants, as is being done by CCPS.
- Rolling out additional regional conferences and virtual meetings to provide convenient and inexpensive forums covering local and global issues. Continuing to increase the number of local sections with websites to improve communications.
- Advancing networking opportunities for making and maintaining professional contacts. The recently launched ChEnected website is an excellent resource for young professionals.
- Increasing the number of sections developing Young Professional groups. Young professionals contribute dynamic ideas and leadership that sustain AIChE.
- Expanding offerings of webinars, online courses, and other products through ChemE on Demand. Chemical engineers need instant access to information via the web.
- Supporting programs, such as the Energy Initiative, to address challenges in energy, sustainability, and the environment. AIChE has the expertise to successfully advance solutions to these problems.



Katherine S. Ziemer

Kate Ziemer is an Associate Professor of Chemical Engineering at Northeastern Univ. Kate worked for seven years at DuPont after earning a BS in chemical engineering from Virginia Tech. Her people and technology development experience with DuPont, along with several years of education outreach, inspired

her to become a university professor. Kate earned her PhD from West Virginia Univ., and joined Northeastern Univ. in 2001. She has more than 40 publications and 70 presentations on both educational and research topics. She has organized multiple workshops in her research area of multifunctional materials, and participates in several U.S. and global research collaborations. Kate has been an active member of AIChE since 1994, has held an office in the Boston Local Section, has chaired multiple sessions at national meetings, and developed and led workshops on K-12 Outreach. She is a student chapter advisor (4 Outstanding Chapter Awards; Chem-E-Car Competition: 2nd place in 2002, 1st in 2010), a Societal Impact Operating Council (SIOC) member, and leader of AIChE's K-12 Web Initiative.

Statement: Chemical engineering is key to addressing many of today's grand challenges: sustainable living, environmental responsibility, protection against terrorism, advancing medicine and medical devices, improving computer, sensor, and control technology to the industrial process, and increasing technical literacy of the general public. AIChE is a global society, which deepens and broadens the societal responsibilities associated with meeting these challenges. AIChE's strength is its knowledgeable and creative membership that enables the Institute to responsibly lead technological advances.

My first priority is to expand membership and engage *all* members through relevant and meaningful services, and provide opportunities for involvement. I would like to ensure continued attention to engaging members at all stages: students, young professionals, mid-career, and Fellows. This involves continued use of technology for lifelong education and networking. I would work to identify effective ways to 1) engage all members in identifying Institute needs and enable them to participate on Institute initiatives through both web-based technology and global, topical symposia, 2) remain fiscally responsible through both external funding of initiatives and increased cooperation on common goals, and 3) promote interaction with other professional societies to synergize our collective impact on issues such as the diversity pipeline, K-12 outreach, informal education, and public policies. I will work to make AIChE a leader among professional societies, while building the public awareness of today's chemical engineer.

I am honored to be a part of AIChE. I feel confident that AIChE and its members will bring a future of promise for generations to come.

MIDWEST REGIONAL SET FOR CHICAGO, SEPT. 30 – OCT. 1

This fall, AIChE's Chicago Local Section continues its long history of regional programming as it hosts AIChE's 2010 Midwest Regional Conference, Sept. 30 – Oct. 1, on the Illinois Institute of Technology (IIT) campus.

The Midwest Regional Conference provides a customized slate of technical programs and networking opportunities for chemical engineers and scientists in the central U.S. This year's conference focuses on the critical subjects of energy, sustainability, refining, and process development, as well as environmental, health and safety issues. Among the two dozen sessions is a special program track for young professionals, including workshops on interview skills and resumé development, a session on creativity in engineering innovation, and an evening of stand-up comedy.

The conference keynote speaker is Dr. Maria K. Burka, AIChE's President-Elect and a program director at the National Science Foundation (NSF). Burka will discuss recent NSF engineering initiatives, including cyber-enabled discovery and innovation, the development of alternative energy sources, bioengineering, and the environment — tying these issues to the National Academy of Engineering's grand challenges.

Another conference highlight is the region's High School Engineering Career Outreach Program, through which local high school students are introduced to various facets of the engineering profession. They also attend a luncheon where they interact with practicing engineers. The keynote speaker at the student event is Dr. Al Sacco, former NASA Space Shuttle payload specialist and current professor of chemical engineering at Northeastern Univ.

For a full schedule of events and registration information, visit www.aiche.org/conferences/2010chicagoconference.aspx.

OBITUARIES

Charles H. Fisher, 92, Tampa, FL

Philip A. Lenton, 90, Dearborn, MI

Jorge M. Matta, 74, Lake Grove, NY

Cynthia J. Riley, 54, Littleton, CO

Raymond D. Sonnier, 65, Baton Rouge, LA

Irvin B. Van Horn, 71, Webster, TX

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.)

AUGUST
1–4, 2010

5th International Conference on Bioengineering and Nanotechnology
Biopolis, Singapore

SEPTEMBER
12–16, 2010

55th Annual Safety in Ammonia Plants and Related Facilities Symposium
Hyatt Regency • San Francisco, CA

SEPTEMBER 30–OCTOBER 1, 2010

AIChE Midwest Regional Conference
Illinois Institute of Technology • Chicago, IL

OCTOBER
7–8, 2010

Regional Process Technology Conference
Moody Gardens Hotel • Galveston, TX

NOVEMBER
7–12, 2010

2010 AIChE Annual Meeting
Salt Palace Convention Center • Salt Lake City, UT

JANUARY
9–13, 2011

2nd International Congress on Sustainability Science and Engineering (ICOSSE '11)
JW Marriott Starr Pass Resort • Tucson, AZ

JANUARY
16–19, 2011

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



Scheduled Webinars

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

JULY 14, 2010
2:00–3:00 PM ET

Mixing Scale-Up: Small Mistakes Can Mean Big Success
Presented by Dr. David S. Dickey

JULY 21, 2010
12:00–1:00 PM ET

Whodunnit? The Mystery of CO₂ Emissions: Is the Flowsheet or Equipment to Blame?
Presented by Dr. David Glasser and Dr. Diane Hildebrandt

JULY 22, 2010
2:00–3:00 PM ET

A Tale of Two Energy Problems: Fuel Shortage and Obesity
Presented by Dr. James Liao *(Free for SBE Members)*

JULY 28, 2010
2:00–3:00 PM ET

Failure is an Option: Learn How to Turn Failure into an Advantage
Presented by Dr. Ben Yexaz

AUGUST 4, 2010
2:00–3:00 PM ET

Safety Issues in Particle Handling: Dust Explosions
Presented by Robert L. Gravell

AUGUST 11, 2010
2:00–3:00 PM ET

Creative Networking: How to Light Up the Nodes of Your Network
Presented by Pegotty Cooper *(Free for AIChE Members)*