From the Fellows Council

This third edition of the new communication link for the AIChE Fellows features the AIChE® Strategic Plan Roadmap, the Special Election to revise the Institute’s Constitution, and a list of opportunities for Fellows to interact with students, especially at the Annual Meeting in San Francisco. Our goal is to involve more Fellows to further the mission of AIChE in the special ways of the Fellows!

Page 2 shows elements of the new AIChE Strategic Plan & its Roadmap. There will be many places for Fellows to contribute.

Page 3 describes the need for Constitutional revisions and mechanics of voting during October to December. To have a voice in this fundamental action and to meet the high requirement of members voting, everyone, especially Fellows, should participate.

Page 4 lists very specific opportunities for Fellow involvement in student activities at the Annual Meeting in San Francisco and in ongoing student programs. Great ways to give back!

Page 5 contains some reports of the Fellows Council member activities. All Fellows are encouraged to contact the FC member involved with if they would like to work with an FC member.

Page 6 gives the current FC roster and the report from the FC telecom in July, including the new FC officers and members approved by CEOC and effective January 2017. A revision to the FC Bylaws has been approved by the Council and is awaiting approval by CEOC.

Changes to the Fellows web site for enhancing communication about and among Fellows are underway; they will be in place soon.

Don’t forget to vote for AIChE Leadership by October 10!

We look forward to greet you at our Breakfasts, to considering your proposals for Fellows activities, and to receiving your communications about issues important to the Fellowship.

Best regards,
Jim Hill, Chair; Dave Eckhardt, Vice Chair; John O’Connell, Secretary

Fall 2016 Fellows Breakfast Agenda

Tuesday, Nov. 15, 2016, 7:00–9:00 AM; Parc55 Hotel; Cyril Magnin I

Agenda

• Greetings and Welcome
• Remembrance of our Departed Colleagues
• Introduction & Presentation of New Fellow Pins & Plaques
• Reports: AIChE Leadership, FC Leadership, AIChE Foundation
• Recent Initiatives and Activities: Process Safety Education
• Conversation and Fellowship

See www.aiche.org/fellows-news-breakfast-meeting for highlights
The AIChE Strategic Plan & Implementation

At the Houston Fellows Breakfast, Executive Director June Wispelwey reviewed the current AIChE Strategic Plan and presented elements of the Roadmap for its implementation. Here are some excerpts, with more details to be published on the AIChE website.

### The Primary Goals of the Strategic Plan - *GIVES*

<table>
<thead>
<tr>
<th>Goals</th>
<th>Initiatives</th>
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<tbody>
<tr>
<td>Global</td>
<td>Expand presence in the Middle East</td>
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<td>Expand presence in Asia</td>
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<td>Explore viability of expansion in &quot;uncertain&quot; regions</td>
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<td></td>
<td>Expand student program through global Chem-E-Car Competitions®</td>
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<td>Develop global content &amp; delivery methods</td>
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<td>ITGs</td>
<td>Consolidate small, independent societies under AIChE’s umbrella</td>
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<td>Consolidate external conferences as a strategy for growth</td>
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<td>Identify &amp; develop new growth areas for AIChE in emerging &amp; underserved technical domains</td>
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<td></td>
<td>Grow CCPS® by following Vision 20/20</td>
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<tr>
<td>Via IT</td>
<td>Implement Enterprise IT platforms that can be leveraged to meet many business needs</td>
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<td></td>
<td>Expand social media, enhancing member community</td>
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<td></td>
<td>Go mobile!</td>
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<td>Education</td>
<td>Develop curriculum in gap areas for ChemE practitioners</td>
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<td></td>
<td>Enhance &amp; leverage SAccE® modules for undergraduates</td>
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<td></td>
<td>Evaluate &amp; leverage credentialing programs</td>
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<td>Expand professors’ knowledge of process safety fundamentals</td>
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<tr>
<td>Societal</td>
<td>Expand members’ knowledge of policy issues &amp; empower them to act</td>
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<td></td>
<td>Educate policy makers &amp; funding agency staff</td>
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<td>Improve the technical literacy of the public</td>
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### The Supporting Goals & Initiatives

<table>
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<th>Goals</th>
<th>Example Initiatives</th>
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<tr>
<td>New Business Models</td>
<td>Accelerate fundraising for AIChE Initiatives</td>
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<tr>
<td>More Inclusive</td>
<td>Welcome minorities &amp; under-represented technical domains</td>
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<tr>
<td>Operational Effectiveness</td>
<td>Implement staff Efficiency Team recommendations – <em>e.g.</em>, improve communications, document &amp; automate business processes</td>
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<tr>
<td>Volunteer Leadership</td>
<td>Create a volunteer leadership development process for the BOD</td>
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<tr>
<td>ChemE Competitiveness</td>
<td>Improve skills by strengthening &amp; implementing new ChemE Education, <em>e.g.</em>, to meet process safety challenge</td>
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The BOD and Staff will be considering specific steps for these and other initiatives during the next year. There will be many opportunities for Fellows to be involved, so stay tuned!

Revising the AIChE Constitution

AIChE’s Constitution serves as the primary governing document for the Institute. AIChE’s Board of Directors is asking members to approve changes to the Constitution. These are the first revisions since 2003. Voting is from October 12 - December 12, 2016.

The proposed changes to the Constitution will make AIChE more vibrant, flexible and better able to adapt to the changing needs and interests of its members. The ballot is reproduced below; its five categories on the ballot (see below) are noted here in parentheses.

Implementing Best Practices: (1) We propose specifying term limits for Directors, Secretary, Treasurer and President; (2) moving several provisions from the Constitution to the Bylaws (member description and eligibility, election and Nominating Committee processes); and removing obsolete references.

Reflecting Current Practices: (3) In the Constitution, we propose broadening Board creation of divisions, local sections and student chapter to encompass all entities, including industry technology groups, forums, and future groups; specifying the Past President as an Officer; and changing the process for proposing an amendment from discussion at a general meeting to presentation to the membership.

Modernizing Governance: (4) We propose changing the requirement for Board petition candidates from the low threshold of support from 100 members to a more representative 2 percent of the membership; and (5) conforming Constitutional provisions to requirements of the Non-Profit Revitalization Act of 2013 under New York Not-for-Profit Corporation Law; changing the requirement for future amendments to the Constitution from 75 percent approval by a minimum of 20 percent of voting members to two-thirds of votes cast.

Please join us in voting yes this fall, and reach out to your colleagues to ensure a quorum is reached to allow passage of these highly important updates.

More information and President Greg Stephanopoulos’ message is at: www.aiche.org/amendments

Specific modifications of the current document are at: www.aiche.org/sites/default/files/docs/pages/proposedconstitutionchanges.pdf

AIChE’s Virtual Local Section (VLS) will host an online meeting devoted to the election to amend the Constitution. The meeting is scheduled for 9:00 PM EDT on Thursday, September 22 and will feature AIChE Board member and VLS Director John O’Connell leading the Constitution revisions. Participating AIChE Leadership will help field questions from members.

VLS participation information is available at www.aiche.org/vls.

BALLOT

PROPOSED AMENDMENTS TO AIChE’S CONSTITUTION

Yes

All Proposed Amendments (AIChE’s Board of Directors recommends a vote in favor of ALL proposed amendments.)

Alternatively, if you don’t check yes, you may vote separately on each category of proposed amendments.

Yes  No
(1) Setting Term Limits and Clarifying the Role of Past President
(2) Moving Operational Provisions to the Bylaws
(3) Modernizing Practices
(4) Recognizing the Ways Technology Impacts Petition Candidacies
(5) Meeting Administrative and Legal Requirements
Please Note: The Board encourages you to vote as soon as possible. Amendments to the Constitution require favorable votes of 75% or more from at least 20% of the eligible voting membership. Votes received by December 12, 2016 will be entered in a drawing to win an iWatch!

AIChe Fellows Newsletter Summer 2016

How Fellows Can Get Involved & Make a Difference!

(* Items to contact Sarah Ewing at sarae@aiche.org)

1. Chem-E-Car Competition® Engineering Documentation Package Reviews for the Annual Student Conference – Student team EDPs will be assigned to reviewers after the deadline of September 19. These reviews will be done remotely/over email and take 1-2 hours each to complete*.

2. Free food and great conversation with students. Join the Student Conference Keynote and Networking brunch from 9:00-11:00am on Saturday November 12, 2016 at the Hilton Union Square Grand Ballroom B. James (Jim) R. Fitterling, President and Chief Operating Officer of the Dow Chemical Company will be the Keynote Speaker.

3. Chem-E-Car Competition On-Site Safety Inspections at the San Francisco Annual Student Conference – Every one of the more than 30 cars in the competition must be thoroughly inspected by volunteer judges during 3:30 - 6:30pm on Saturday, November 12 at the Hilton*. It is educational and much fun!

4. Chem-E-Car Poster Competition - Each car entry is accompanied by a poster presented by the student team. Poster Judges are needed on Sunday, November 13 from 8:30-10:30am at the Hilton*.

5. Student Paper Competition – The winners of...
regional paper competitions present their work to determine the best of the best on Monday, November 14 from 8:30 - 11:30am. Judges are needed to hear the talks and ask questions*. Judges are encouraged to participate with students in regional meetings during the spring. Judges are needed for student competitions. The schedule will be posted at: www.aiche.org/conferences/student/student-regional-conference-quick-view

**AIChe Fellows Newsletter Spring 2016**

**Fellows Council Initiatives & Activities**
Process Safety Education Activities

This effort is being led by Fellows Council member Dan Crowl.

AICHE / CCPS held four faculty workshops at industrial facilities this summer at Dow in Freeport, TX; ADM in Decatur, IL, Cargill in Blair, NE and Chevron in Richmond, CA. A total of 97 faculty attended these workshops and gave very positive reviews, especially about companies' safety culture and its importance. The faculty all committed to adding course content in process safety to their undergraduate curricula. More workshops will be offered in summer 2017.

On Sunday, November 13 at the AICHE Annual meeting in San Francisco a 1-day workshop, entitled: "Jump Start Process Safety Engineering Education: A How-To Workshop" on process safety is being offered. Faculty attendees will learn many different ways to incorporate process safety into the undergraduate curriculum and about the resources available. Faculty can register on-line as part of the meeting registration. The cost will be $45 and will include lunch and handout materials.

AIChe/CCPS is completing eight on-line no-cost courses on process safety for student instruction. These are interactive and high-quality, including presentation of technical content followed by an on-line test. The students will receive a certificate after successful completion of the courses. All the courses will be completed by the end of 2016 with many more to follow in future years.

Dan Crowl was the workshop staff consultant for the Dow, ADM and Cargill workshops, attending and contributing to the content.

The AIChe Fellows are strongly encouraged to contact Universities to:

1. Help identify faculty to attend the workshops.
2. Provide faculty & student safety awareness.

Licensing & Professional Development

This effort is being led by Fellows Council member Joe Cramer.

Programming is planned for the 2016 Annual Meeting and 2017 Spring meeting in San Antonio. The PE Task Force is still finalizing some recommendations for action by CEOC and the BOD. There are plans to establish a web site for AIChe PE community issues, create more awareness of PE pathway for students with help of the Student Chapters Committee, and direct more members to information available through NCEES. Another idea is to create a video using young Ch.E. PEs providing information on why and how they pursued PE licenses.

A criterion has been added to the “Outstanding Student Chapter” awards with credit for ‘making students more aware of the PE option’.

Bill Parrish, Joe Cramer, and others continue to make presentations at the Annual Student Conference on the FE/PE process.

AIChe Foundation

This effort is being led by Fellows Council member Syamal Poddar and Foundation Development Director Stephanie Viola.

AIChe Fellows embody the countless ways chemical engineers are doing a world of good. Through the Foundation’s five year, $15 million campaign, “Doing a World of Good”, they can help build an endowment to insure AIChe and the profession will achieve their aspirations, today and in the future.

From awards for initiatives in education and diversity advancement, endowment gifts reflect the extraordinary contributions of the chemical engineering community and the importance of investing in its future. See the personal ways AIChe Endowment Donors are moving the profession forward by giving back at:

www.aiche.org/giving/impact/stories/endowment-donors-find-personal-meaning-giving

Fellows are urged to lead in shaping the profession for the future. For more information, please visit:

www.aiche.org/giving/impact/funds/endowment-gifts
### Fellows Council Initiatives & Activities (Cont.)

#### Strategic Issues Programming Initiative
This effort is being led by Fellows Council members I. Grossmann, J. Hill, A. Varma, and R. Wickramasinghe.

The 2017 World Congress of Chemical Engineering (WCCE) will meet in Barcelona, Spain, on October 1-5, 2017. The Congress involves many societies, such as the European Process Intensification Congress, the European Symposium of Computer-Aided Process Engineering, the European Congress of Biotechnology, and AIChE, through the World Council for Chemical Engineering. See: [http://www.wcce10.org/](http://www.wcce10.org/)

June Wispelwey is organizing sessions including one on process safety and an IfS ICOSSSE conference. There will also be a Chem-E-Car Competition.

The FC Strategic Issues Initiative will sponsor a session on “Future Trends in Worldwide Chemical Engineering Education and Research”, being organized by FC member Ignacio Grossmann along with Sebastian Engell, of the Technical University of Dortmund.

The session will have speakers from various parts of the world emphasizing changes in the educational programs and the impact that new research directions course offerings, curricula, hiring of faculty, and the growth or decline of enrollments. Of special interest will links of academia to industry in various countries.

This session has been inspired by the 2013 San Francisco panel organized by the late John Chen and Jim Hill in. It is expected that the session in Barcelona will be the basis for a similar session at the 2017 Annual Meeting in Minneapolis.

#### DOE Proposal for AIChE Institute “RAPID”
Fellows Council member Maria Burka has been involved with this major initiative.

AIChE has responded to a Department of Energy (DOE) funding opportunity on Modular Chemical Process Intensification for Clean Energy Manufacturing) by creating the Rapid Advancement in Process Intensification Deployment (RAPID) Manufacturing Institute. Part of President Obama’s advanced manufacturing initiative - called National Network for Manufacturing Innovation (NNMI) – the goal is to meet the manufacturing challenges of clean energy and energy efficient products and processes. The funding is for $70 million over five years with a minimum of equal matching cost-share by the participants from industry, academia, governmental labs, and non-profit organizations.

The RAPID Institute focuses on modular chemical process intensification, a fundamental area of knowledge in chemical engineering used in manufacturing processes as a means of lowering costs, improving energy and resource efficiency, increasing overall productivity and maintaining US manufacturing jobs. An emphasis will be on capitalization investments for new construction for manufacturing and application within the U.S.

RAPID has support from 75 companies from a broad range of industries, 35 academic institutions, 7 national labs, 2 governmental labs, and 9 non-governmental organizations. Together, these partners have committed to cost-sharing of $264 million, both in cash and in-kind support. This amount is over three times the DOE minimum requirement.

NNMIs must be operated and managed by a 501c (3) non-profit organization, such as AIChE, and must develop and provide workforce and outreach activities. AIChE would not compete with universites in the project; rather, the Institute intends to leverage its existing infrastructure and experience, thus requiring less DOE management funding and enabling more funds for research.

DOE expects to make the decision by the end of 2016. Additional information can be found at: [http://www.RAPID.org](http://www.RAPID.org).

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**AIChe Web Site**  
[http://www.aiche.org/community/fellows](http://www.aiche.org/community/fellows)

This effort is being led by Fellows Council member Dennis O’Brien.

By November, a reorganization and validation for many different browsers will be complete. Fellows Council webmasters will manage content and format. Fellows will then be asked to give feedback for updates and maintenance.
# 2016-2017 Fellows Council Roster

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<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Maria Burka</td>
<td>NSF (Retired)</td>
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<tr>
<td>John Cirucci*</td>
<td>Spatial Analytics (Retired)</td>
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<tr>
<td>Douglas Cooper</td>
<td>University Of Connecticut</td>
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<tr>
<td>Joseph Cramer</td>
<td>BSA Consultants</td>
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<tr>
<td>Daniel Crowl*</td>
<td>Michigan Technical University</td>
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<tr>
<td>David Eckhardt, Vice Chair®</td>
<td>Irwin Engineers</td>
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<tr>
<td>Zenaida Gephardt</td>
<td>Rowan University</td>
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<tr>
<td>Ignacio Grossmann</td>
<td>Carnegie Mellon University</td>
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<tr>
<td>James Hill, Chair®</td>
<td>Iowa State University</td>
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<tr>
<td>Jay Lee*</td>
<td>KAIST</td>
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<tr>
<td>Barbara McDonald Loe, Staff</td>
<td>AIChe</td>
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<tr>
<td>Thomas Mensah</td>
<td>Georgia Aerospace Systems</td>
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<tr>
<td>Dennis O'Brien</td>
<td>Jacobs Consultancy</td>
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<tr>
<td>John O'Connell, Secretary</td>
<td>University of Virginia (Retired)</td>
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<tr>
<td>Syamal Poddar®</td>
<td>Poddar &amp; Associates</td>
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<tr>
<td>David Rockstraw+</td>
<td>New Mexico State University</td>
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<td>Jo Rogers+</td>
<td>DIPPR</td>
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<tr>
<td>Chi-Min Shu+</td>
<td>National Yunlin U. Science &amp; Technology, Taiwan</td>
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<tr>
<td>Arvind Varma</td>
<td>Purdue University</td>
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<tr>
<td>Ranil Wickramasinghe</td>
<td>University of Arkansas</td>
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*Term Ending 2016; †Newly Elected for 2017-9
@For 2017, Hill-Past Chair, Eckhardt-Chair, Poddar-Vice Chair

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# Report from Fellows Council Meeting

**July 12, 2016 3:00 - 4:15 PM EDT**

The AIChE Fellows Council oversees the organized activities of the Fellows and meets four times per year to discuss Fellow activities and policies. Two meetings are at the fall (Annual) and spring (National) AIChE meetings, and two are virtual, usually by teleconference.

At the virtual meeting in July, the main topics were:

1. World Congress of Chemical Engineering ([www.wcce10.com](http://www.wcce10.com)). Congress Chair F. García-Ochoa joined the telecom to provide information about the Congress and welcome the FC initiative for programming to be developed by I. Grossmann & Sebastian Engell (see p. 6)
2. Fellows Council Bylaws approved & transmitted to CEOC for final approval & publication.
3. Summer Newsletter with safety education focus forwarded to all ChE Department Chairs.
4. Fellows web site control to FC leaders with updates followed by Fellow access (see p. 6)
5. FC candidates (new members & Vice Chair) sent to FC members. See above for results.
6. Next telecom in mid-September followed by face-to-face in SF, November 15, 1:30 PM.

*From minutes of the meeting prepared by John O’Connell, Secretary*