

Upcoming AIChE National Spring Meeting in Florida, April 22-26, 2018



The AIChE Spring Meeting is the year's key technical conference for practicing chemical engineers. This year it's in Florida industry experts will cover a wide range of topics relevant to cutting-edge research, new technologies, and emerging growth areas in chemical engineering. The Technical Program and Program Grids are now available on the AIChE Website.

Chair's Letter



I was recently asked to explain what has been the value of being an active member of F&PD. Two of the key items that came to mind were continuous learning, and the professional network I have become a part of.

The technical programming at the F&PD sessions of the AIChE National Spring Meeting and Annual Meeting are always seeking to be topical to the current fuels and petrochemical industry. F&PD sessions have allowed me to keep up with the changes in technology and markets which lead to new opportunities. One of the key ways F&PD works to achieve this is by having keynote sessions and panels at the National Spring Meeting and Annual Meeting, where key leaders in technology and industry are able to share some of the key trends they and their companies are observing.

The F&PD Executive Committee is actively looking for additional ways to facilitate continuous learning to our members. Past proceedings from F&PD sessions at the AIChE National Spring and Annual Meeting have started to become populated in the Members Only Section of the website. F&PD also signed a MOU with Hydrocarbon Processing on April 1st, where F&PD members will be granted access to additional technical articles and news, and discounts to larger packages that they have available.

Networking in F&PD is also a key advantage. Being an active participant in developing the conference programming as a session Chair or co-Chair allows a person to develop a network that is more than a name on a business card because you have given the opportunity to collaborate with Chemical Engineers from other companies and business sectors. This results in developing “working relationships” because the session team actively works together to develop top-notch technical programming.

Further, networking in F&PD typically leads to opportunity to develop leadership skills. There are many leadership opportunities available (Committee Chairs, Session Programming Chairs, Newsletter Editors, etc.) that can assist an F&PD member demonstrate to their employers an ability to lead, which can lead to a greater career path and opportunities.

This will be my last Chair's Corner as the F&PD Chair. It has been an honor to have been granted the privilege to lead this division. I want to thank the Executive Committee for all of their hard work over the last year. Without their support, the steps that have been made to improve the division programming and membership benefits would not have been possible. Going forward, I am certain the F&PD Executive Committee will continue to look to improve on this, and many other opportunities. I appreciate the support of the F&PD membership, and hope to see all of you at the AIChE Spring Meeting in Orlando, FL.

Message from Incoming Chair



The approaching AIChE Spring meeting signals the annual change in the Fuels & Petrochemical Division (F&PD) leadership team. I am humbled to be elected as the incoming Chair of one of AIChE's largest divisions and one that encompasses so many technology, business, and academic areas that form the heart of the chemical engineering profession.

In the coming year, I plan to guide our Executive Committee to work on a few key efforts, including traditional efforts by F&PD, plus a few new ones.

First, we are working hard to improve the content of our website. Great progress has been made on this front thanks to our current Chair Ian and our communications team, but we will continue to improve our online experience and content for members, a key value of your F&PD membership. In the very near future, we will be able to share a few more developments regarding technical content to enhance the value of an F&PD membership even further. Stay tuned for

additional content, along with an enhanced F&PD presence online.

Programming remains a cornerstone activity of our Division, with extensive offerings at the Spring meeting and a renewed focus on industry-relevant topics for the Annual meeting. We plan continue some of the successes of our programming efforts from the 2017 Minneapolis Annual meeting through to this year's annual meeting in Pittsburgh.

Of course, we have a full line-up of traditional F&PD technical topics to offer in Orlando, including a keynote address and executive panel session. And, programming for the 2019 Spring meeting begins shortly after the events in Orlando conclude. Now is the time to voice your opinion on what technical topics you as a F&PD member would like to see executed at future AIChE meetings.

Recently, the F&PD membership was surveyed on multiple topics. Part of F&PD's work in the coming year will be to review the data from this survey and begin shaping the Division's focus and activities to better capture the needs expressed by you, our members. If you missed the F&PD survey but have feedback to share, please send it to me or any member of the Executive Committee

Finally, one of the messages that I want to reinforce during my tenure with our members is that while it may seem difficult to get involved in the activities of the Division, there are many, relatively simple ways, to do this. Volunteering as a session chair/co-chair is how many people begin their additional involvement in the Division. Regional conferences and local AIChE chapters have many F&PD members in attendance. F&PD has been a long-time supporter of AIChE's Young Professional Committee and its activities and we are improving this collaboration even further. Outreach has been another highlight of the Spring meeting where F&PD volunteers are in the local community educating high school students about the engineering profession. We'll provide reminders of these opportunities, and more, in our future newsletters and online communications.

Sincerely,

Bill C. Rooney, Ph.D.

William.Rooney@honeywell.com

Getting to know F&PD Board Members Lori McDowell and Tim Olsen



Lori McDowell became involved in AIChE and F&PD while still in Grad. School. After presenting at a few AIChE meetings, her advisor, Mike Klein, recommended she co-chair a session with Gavin Towler, and from there her activities grew. She served as programming chair of the Fuels and Petrochemicals Division, Director, Communication Director and Newsletter Editor, Chair and is currently Treasurer, In addition to F&PD Involvement, Lori became involved in overall AIChE activities, including CTOC member, EBPC, Co-Meeting Program Chair (MPC) of the Spring meeting in 2007 and 2016 and recently MPC of the Spring 2017 Meeting. She also became a Fellow and is currently Chair of the Fellows Admissions Committee. Through all of this, Lori realized that AIChE was a valuable organization and she wanted to make it even better.

The next step in her AIChE activities was to run for the Board, where she felt she could really make an impact. Lori did this and was elected to the Board starting in 2018. As a Board member, one of Lori's main goals is to make AIChE a valuable organization for all ChEE. This includes making it a more diverse organization in all ways: age, gender, race, career area, interests, etc. She is looking forward to serving on the Board the next three years and really making a difference.



Tim Olsen started presenting and chairing sessions for the Fuels and Petrochemicals Division (F&PD) nearly two decades ago, which provided him with a foundation to better understand how AIChE programming and events functioned. With experience, Tim took on additional leadership roles including overall F&PD Programming Chair in 2009, the Chair of F&PD in 2012, and the overall Meeting Program Chair for the 2014 AIChE Spring Meeting in New Orleans. Along the way, Tim also gained experience while providing input as a member of the Executive Board of the Programming Committee (EBPC), and the Chemical Engineering Technology Operating Council (CTOC). All of these experiences provided the required knowledge and understanding to enable valuable insight for the Board of Directors, which he is now a member of.

The picture above is from AIChE Spring Meeting in San Antonio. This is Dennis O'Brien, Ahmed Khogeer, and myself having lunch... all of us from F&PD.

To read more about our Bio and Statement:

<https://www.aiche.org/about/governance/elections/2017-board-directors-election#McDowell>

<https://www.aiche.org/about/governance/elections/2017-board-directors-election#olsen>

Spring 2019 Call for Programming Volunteers and Papers

By Bill Rooney, F&PD 1st Vice Chair

With the 2018 Spring AIChE meeting in Orlando around the corner, planning for the 2019 Spring Meeting begins.

The Fuels and Petrochemicals Division is planning a full slate of technical programming across refining, petrochemicals, and gas processing in addition to a few co-sponsored sessions with other divisions and forums. However, we still need your help in making the program a success.

We are always seeking volunteers to serve as a session co-chair for one of the numerous technical sessions. If you have interest in volunteering for the 2019 Spring meeting, please contact one of the team members below.

We also need assistance from our membership to help recruit presentation submissions. The quality, variety, and depth of the presentations presented over the past several years has well represented the Fuels and Petrochemicals arena. We kindly ask you to reach out to your industrial, academic and other contacts to help make the 2019 F&PD program the best yet.

For additional information, please reach out to one of the contacts below. The initial program for 2019 will be start to be established on Tuesday, April 24th at the Spring Meeting from 5-6pm. Check the ancillary meeting to confirm location so that you can attend.

Sincerely,

Fuel and Petrochemicals Programming Team for 2019

Chairs

- Kirtan Trivedi Kirtan.k.Trivedi@exxonmobil.com
- Frank Del Noyal Frank.DelNoyal@bp.com

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- Saadet Ulas-Acikgoz Saadet.Acikgoz@Honeywell.com

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- John Senetar John.Senetar@Honeywell.com

Gas Processing

- Jeffery Gaspard Jeffery.Gaspard@kbr.com
- Mahdi Nouri Mahdi.Nouri@ch2m.com

Bipin Vora Elected to the National Academy of Engineering

Recognition

Bipin Vora
UOP Fellow

- Elected to the National Academy of Engineering.
- Among the highest professional distinctions accorded to an engineer.
- For catalytic process innovations leading to commercialized petrochemical technologies.
- Formal induction at the NAE annual meeting in Washington, D.C., on Sept. 30, 2018.

NATIONAL ACADEMY OF ENGINEERING

Honeywell UOP

Presented by TalPoint

In addition to his more than 90 U.S. patents across a range of technologies, Bipin has been a valued advisor to UOP and its scientists and engineers,” “It is fitting that he has earned election to the Academy, which is one of the most prestigious honors for any engineer.”

Bipin Vora earned bachelor of science degrees in Chemistry and Chemical Engineering and a Master’s degree in Chemical Engineering from the University of New Mexico. He joined UOP as a development engineer and retired in 2006 as a UOP Fellow, the highest technical position at Honeywell UOP.

Professor M. Nazmul Karim Award in Process Control and Automation

In recognition of a very generous personal contribution from Professor M. Nazmul Karim, the Fuels & Petrochemicals Division (F&PD) of the American Institute of Chemical Engineers (AIChE) is pleased to announce the Professor M. Nazmul Karim Award in Process Control and Automation. This award consists of a \$500 honorarium and will be presented annually for the next 5 years starting in 2018. This award will be presented to the authors of the best contribution among all the presentations/papers in the F&PD Spring meeting programming tracks, including co-sponsored sessions, that enhances the science and/or applications of:

- Basic Process Control
- Advanced Process Control
- Simulation and Automation
- Industrial Internet of Things (IIoT)
- Big Data and/or Data Management

The above application areas will be reviewed on a yearly basis to adjust, as appropriate, to industry trends and developments in using process control for chemical engineering applications. The winner each year will be selected by an F&PD committee and announced at the F&PD Welcome session.

Please help F&PD spread the word about this prestigious new award and encourage your colleagues and contacts to submit a paper/presentation to future AIChE spring meetings to be eligible for this new programming award. If any members of F&PD have professional experience in basic/advance controls and would like to help select the annual winner of this award, please contact the authors below.

Kirtan K Trivedi – Kirtan.k.trivedi@exxonmobil.com

Frank Del Nogal – FRANK.DELNOGAL@bp.com

F&PD Volunteer Opportunities Professional Development

Fuels and petrochemical Division has numerous ways to get involved and gain more from your membership. Getting involved benefit's everyone from networking, to developing lasting personal and professional relationships as well as educational opportunities, certifications and seminars that will further your industry knowledge. Here are a few of the numerous and easy ways to get involved with F&PD:

- Write an article for F&PD Flashpoint newsletter outlining a unique professional/personnel experience related to the chemical engineering profession
- Session Chair/co-chair for technical sessions at the Spring AIChE Meeting
- Session Chair/co-chair for technical sessions at the Annual AIChE Meeting
- Session Chair/co-chair for technical sessions at regional AIChE conferences (Southwest Technology conference near Houston and Midwest Regional conference in Chicago as examples)
- Serve as an F&PD judge of the student poster competition at the Annual AIChE meeting
- Present an overview of your industry segment/area at the Student Conference at the Annual meeting. Last year, F&PD gave an overview of the refining and gas technology areas.
- Volunteer to give an F&PD webinar (can be done remotely)
- Get involved in your local AIChE or virtual section.
- Serve as an F&PD judge reviewing our annual high school and college scholarship applications (can be done remotely!)

2017 HARRY WEST AWARD WINNERS

William C Rooney – 1st Vice Chair
Saadet Ulas Acikgoz – 2nd Vice Chair
Ellen Kloppenborg – F&PD Webmaster

The Harry West Student Poster Award is presented during the Student Poster Competition at the AIChE Annual Student Conference. This award recognizes outstanding undergraduate research projects relevant to the fuels and petrochemicals industries. Students who submit a poster with an topic applicable to the division's activities are considered for the award. A small team of F&PD members served as judges.

F&PD is pleased to announce this year's winners of the Harry West Student Poster Award:

1st Place: Raúl Márquez-Montes - Design of a Novel Electrochemical Membrane Reactor for Hydrogen Production Via The Sulfur-Ammonia Water-Splitting cycle - Universidad Autónoma de Chihuahua

2nd Place: Jesse J. Hinricher - Cost-Effective Polysulfide and Polyiodide Redox Flow Battery for Large-Scale Energy Storage - Massachusetts Institute of Technology

3rd Place: Alexandra Oliveira - Towards Advanced Porous Carbon Electrodes for Redox Flow Batteries - University of Connecticut

Each of the winners will receive a financial award along with a certificate documenting their outstanding contributions. F&PD also sends a plaque to the winners' school, recognizing their support of undergraduate research opportunities and excellence.



EXECUTIVE COMMITTEE

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