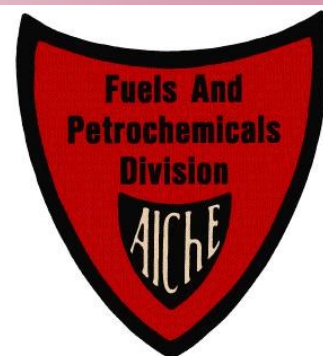


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Fall 2013

Flashpoint



Inside this Issue

<i>Shale Topical Conference</i>	1
<i>F&PD Programming Update</i>	2
<i>F&PD Best Presentation Award</i>	2
<i>Chair's Corner</i>	3
<i>Student Program at Annual Meeting</i>	4
<i>Fuels and Petrochemicals Scholarship</i>	4
<i>5th AIChE Southwest Process Technology Conference</i>	5
<i>Calendar of Events</i>	5
<i>F&PD Executive Committee</i>	6

Shale Topical Conference at AIChE Spring Meeting

As anyone who reads the newspaper knows, shale oil and gas have taken a front page spot in many areas of the US. Headlines regularly tout how the "Shale Boom" has given US Chemicals and refining new life and has changed the Global face of energy. AIChE will feature shale oil and gas prominently at the Spring Meeting in New Orleans next year with a Shale Topical, chaired by F&PD and CTOC member, Joe Powell, Shell. This topical will involve numerous AIChE Divisions including F&PD, Environmental, Process Safety, Sustainability, Manufacturing and more. Details are still being finalized, but the Topical Conference, starting on Tuesday, April 1, will kick-off with a Keynote Panel Discussion on Safety, will feature a Shale Networking Luncheon, numerous panel discussion and sessions on topics such as sustainability, infrastructure upstream and downstream processing. Please plan to join us at this informative topical conference next spring.

F&PD Programming Meeting at 2013 Annual Meeting in San Francisco

While F&PD primarily programs at the Spring meeting, the Division does sponsor some sessions at the Annual meeting. The Division would like to make sure that these sessions are relevant to attendees at the Annual meeting, so for the first time in a number of years, we will hold a programming meeting at the Annual meeting in San Francisco. The meeting will be on Sunday, November 3, at 10AM (room to be posted at the meeting). If you are interested in Chairing a session or presenting at the Annual AIChE meeting, or just want to see how programming is decided, please join us at this meeting. All are welcome to attend and any input is valuable.

F&PD Division is looking for a new logo! We will be voting on a new logo during our elections in early 2014. If you have ideas for a new logo, please send your ideas to chair@aiiche-fpd.org. Three finalists will be included in the vote and all the finalists will receive a prize!

Fuels and Petrochemicals Programming Update by Mike Schultz, LanzaTech

The upcoming annual meeting is taking place from Nov 3-8 in San Francisco. F&PD will have an active presence through co-sponsorship of 34 sessions. In an effort to ensure we are programming relevant topics at this meeting, F&PD will host a programming meeting on Sunday, Nov 3 at 10 am to plan for 2014. Please attend if you are currently involved in Fall programming, or interested in getting involved.

The Spring meeting is planned from March 30 – April 3 in New Orleans. This meeting will have an emphasis on shale oil and gas, and as a result we expect a strong turnout. F&PD's own Tim Olsen is serving as MPC for the meeting. This meeting will feature particular emphasis on shale oil and gas, with topical sessions and panel discussions in this area. A Shale Networking Lunch will be held on Tuesday with a keynote speaker. The call for papers is concluding soon, and we will then be finalizing the programming schedule. It is not too late to submit a paper so we encourage you to submit through confex.



Ethanol Update—Reuters reports that EPA has declared that the 10% ethanol blend wall is a reality. This supports what auto manufacturers and refiners have been stating for years. The implications of this report are not yet evident, but lawsuits and changes in biofuels subsidies can be anticipated. This could be the biggest win for refiners

Best Presentation Award at Spring 2013

F&PD kicked off a best presentation award for the first time at the Spring 2013 meeting in San Antonio. This first time pilot award was available to all presenters in F&PD sponsored sessions that had submitted an extended abstract.

Selecting a best presentation proved very difficult for the judges. Since there were many excellent presentations and the judges could not attend all of them. About 60 presentations were eligible for the awards. The judges identified 7 of these as outstanding and each of these were awarded a certificate for each author and a \$50 Visa Gift card. The 7 winning presentations were:

Paper 23E—Ravi Nath—Honeywell

Paper 103f—Shashi Mistry, Craig Manganm Jim Eshpeter, Suncor Energy and Sanjay Sharma, Honeywell

Paper 24d—Simon Pugh, Edward Isiyama, James Kennedy, IHS, Ian Wilson, Univ. of Cambridge, Alison Ogden-Quin and Graham Birch, Petroineos

Paper 60c—Sanjiv Ratan, Technip

Paper 76f—Bert Pluymers and Edwin Weetnik, IPCOS

Paper 131a—Byung Kyu Kim, Ray Mentzer and Sam Mannan, Texas A&M

Paper 131b—Alfonso Ibarreta, Ryan Hart, Trey Morrison and Harri Kytomaa, Exponent, Inc.

Paper 131d—Filippo Gavelli and Scott Davis, Gexcon

Paper 56f—Herbert Moon and Ingu Kim, Daewoo

The Chair's Corner

Lori McDowell, F&PD Chair and Director, Commercial Development, Matheson



Welcome everyone-it seems that fall is finally here, the kids are back in school, Halloween decorations are appearing in all the stores and we have even had some cooler weather in Houston in the last week. For me, fall is conference time! I recently attended the Southwest Process Technology Conference, ChemInnovations, AFPM Q&A and am planning to attend AIChE's Annual meeting in San Francisco. So much good information is available at these conferences, it is often hard to process it all, but the one thing that is clear—these are good times for the Fuels and Petrochemicals Industry, and it looks to stay that way for a number of years!

In the last issue of Flashpoint, I introduced some of my initiatives for my year as chair. I would like to take this time to update you on the progress on each—we haven't yet done everything we want to, but we are making progress.

Membership – As people start renewing their AIChE membership for 2014, this is the best time to increase F&PD membership. F&PD plans to have information on membership at the Annual Meeting and we plan to send an issue of Flashpoint to all AIChE members that work in fuels or petrochemicals and are not F&PD members. We also hope to increase our student membership with our program at the Annual Meeting, and we talked about F&PD to both participants and students at the recent Southwest Process Technology Conference in Galveston. We are also working closely with AIChE's membership committee on ways to get the word out—F&PD is the best \$10 value you can get. We can also use your help! Renew your F&PD membership and tell all your friends and coworkers to join. The more members we have, the more valuable member programs we can offer. In addition to increasing membership in numbers and diversity, **we are also looking at new member programs—please send me a note a chair@fpd-aiche.org with the type of programs you want-mentor programs, job board, webinars, social events—all ideas are welcome!**

Communication and marketing – We will be kicking off our logo contest, so send your ideas and designs to me at the email below. We will also be asking students to participate in the logo design contest at the annual meeting. We will also be moving our webpage to AIChE's website soon and at that time we will be revamping the webpage to make it easier to use and more visibly pleasing. We are also in search of a new Communications Director—if you are interested or know of someone who might be, or just have questions about the position, please let me know.

Innovative programming – The upcoming Shale Topical Conference at next years Spring Meeting on New Orleans is the first example of new types of programming we will be working on, but look for more to come. We do want to make sure our programming at the Annual Meeting is relevant to what our members want to see, so if you have ideas, join us at the programming meeting on Sunday, November 3. We are also looking at hosting some webinars on relevant topics, as well as presenting some of our best conference papers for local sections and student chapters.

So once again, I cannot stress enough that F&PD is a member based organization and without member input, we cannot succeed! Make suggestions, get involved, volunteer, chair sessions, write articles, design a logo—the more you put into the Divisions, the more you will get out of it—this I can promise! Those who will be at the Annual meeting, please stop by the programming meeting on Sunday morning or the Executive Committee meeting on Sunday afternoon, or join us at the student conference on Saturday! And please, let us know what you need from your division!

Lori

F&PD Participates in the Student Program at the Fall 2013 Annual Meeting in San Francisco

The Fuels & Petrochemicals Division (F&PD) will again be involved at the [AIChE Annual Meeting](#) in San Francisco, similar to last year in Pittsburgh. F&PD members will participate at the [Annual Student Conference](#) (ASC) Career Workshops on Saturday afternoon. At the ASC, seasoned F&PD members will share their experiences and present valuable information to students seeking guidance in their search for employment in the energy sector. For those interested in becoming more involved with the F&PD, please see us on Saturday during the ASC (*"Interviewing in the Energy Sector sessions"*) or on Sunday at the executive officers meeting.

In addition to participating in the Annual Student Conference, F&PD will also be awarding the Harry West Student Poster Award during the Student Poster Session on Monday. This award is for posters focused on fuels, petrochemicals or safety. First, second and third place will be awarded and each winner will receive a plaque, a plaque for their school and a monetary award

The Fuels and Petrochemicals Division of AIChE - Academic Scholarship

The Fuels and Petrochemicals (F&PD) Division of AIChE annually sponsors two \$1,000 one-time scholarship awards to exemplary high school seniors who plan on to study engineering or science in college. F&PD is committed to introducing high school students to careers in Fuels & Petrochemicals through its programs, helping to fuel the industry's need for top talent in the future. For over 5 years F&PD has sponsored these scholarships. Previous winners have attended various colleges which include Penn State, Cornell, Texas A&M, and Rice Universities.

The scholarship targets graduating high school seniors with exemplary academic records and demonstrated leadership potential. Eligible applicants must plan to attend an accredited four year university in the fall and plan to major in engineering or science. College acceptance letters and proof of registration must be presented to F&PD's scholarship panel prior to disbursement of awards.

The award is being spread by word of mouth, through AIChE, and through various college scholarship internet sites, such as:

<http://www.scholarships.com/>

<http://www.fastweb.com>

<https://bigfuture.collegeboard.org>

<http://collegenet.com>

We appreciate AIChE members help in passing along this scholarship opportunity to interested students.

The Scholarship Panel of F&PD, comprising of 4-5 members of the F&PD will review all applications and rank applicants for the award. Award will be based on academic merit, Letters of Recommendation, and creativity/clarity and merit of an essay on a current event in the fuels and petrochemicals industry.

5th AIChE Southwest Process Technology Conference (SPTC)

This year the Southwest Process Technology Conference (SPTC) returned to the Moody Gardens in Galveston, TX. It was an excellent event with record setting attendance of almost 500 attendees. This conference has always had many F&PD members involved in the conference as speakers, session Chairs, and on the conference Organizing Committee.

The keynote for the conference this year was Lynne M. Lachenmyer, Senior VP at ExxonMobil Chemical Company, who spoke about "U.S. Chemical Industry Revitalization: Impact of Abundant Shale Gas Supplies". She spoke about the background of Shale Gas and Tight Oil, and all of the price advantages and opportunities they are creating for low cost chemical feedstock, low cost energy feedstock, reduced GHG emissions mainly from power by replacing coal, and the improved economics for the U.S. economy as a result of the increased exports of several finished products. Lynne also highlighted a major concern for the future: the potential shortage of suitably qualified personnel, and she encouraged us as chemical engineers to become more active in mentoring and improve the education that our children receive.

Bonnie Dunbar, retired NASA astronaut and now leader of the STEM center at the University of Houston, was the dinner keynote speaker. Bonnie continued the discussion about the need to improve technical education due to our great need for highly qualified personnel in science, technology, engineering, and math. She showed how in the US we have not been expanding our engineering base for the last 20 years, while developing nations like India and China have been increasing theirs. With the expanding economic opportunities we have encountered, especially in the F&PD industry, this data shows that we need to improve and increase our engineering talent so that personnel are available to support the expanding opportunities that will become available in our industry.

This year SPTC added a Best Presentation Competition to the Technical Program. The program was a success, and a large number of excellent presentations were observed. F&PD supported this new addition by sharing the scoring basis that was used for the Best Presentation Award at the National Spring Meeting. The winner was Damo Vedapuri from Tridiagonal Solutions Inc. for his presentation on "Improving Process Performance of Ethylene Crackers".

The SPTC also added a Student Program this year. This included a Career Fair. 10 companies participated in the Career Fair and 70 students attended the program. F&PD supported this program by providing a copy of the presentation slides on "Interview Tips in the Energy Industry" that is provided at the Annual Student meeting. The program was a great success, and the SPTC looks forward to continuing both the Student Program and Best Presentation Award next year.

by Ian Michael Glasgow, Mustang

Calendar of Events

2013 AIChE Annual Meeting

Hilton San Francisco Union Square * November 3-8, 2013

2014 AIChE Spring Meeting and 10th Global Conference on Process Safety

Hilton Riverside, New Orleans * March 30-April 4, 2014





Fuels and Petrochemicals Division 2013-2014 Executive Committee

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