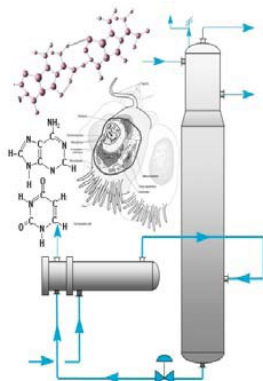


April Newsletter



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April 2016 Local Section Meeting & Annual Poster Competition

*“An Overview of U.S. Natural Gas Production from:
Unconventional Shale Resources”*

Dr. Syed Tariq
Reservoir & Production Engineering Consultant



Date: **Tuesday, April 12th, 2016**

Location: **University of Illinois Chicago**

Student Center West, Thompson Room A/B
828 S. Wolcott Ave., Chicago, IL 60612

Cost: **Members: \$40** **Non-Members: \$50**
 Students: \$10 **Unemployed/Retired: \$15**

Click on the link to register!

<http://www.cvent.com/d/8fqcwX>

Agenda

5:00 - 5:30	Poster setup
5:30 - 6:45	Poster session, registration, and social hour
6:45 - 7:15	Dinner
7:15 - 7:30	Section meeting and announcements. Presentation of Thiele Award and Scholarship Recipients
7:30 - 8:30	Technical presentation
8:30 - 8:45	Questions and Follow-Up
8:45 - 8:55	Presentation of Poster Competition Awards

Chair's Corner

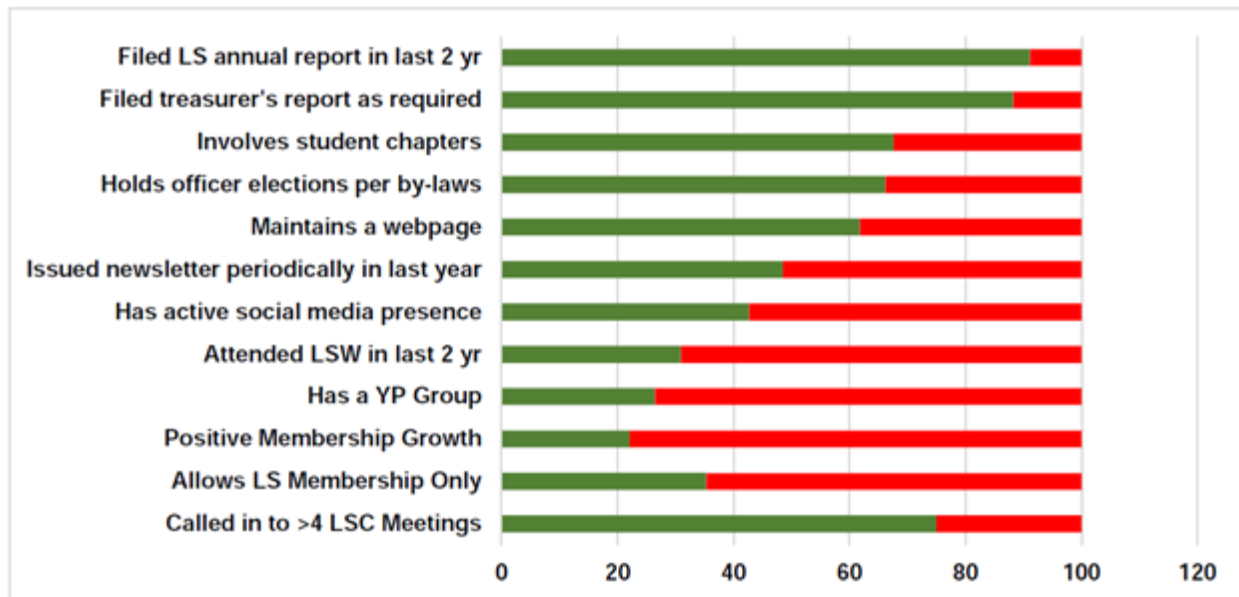
Every year AIChE headquarters requests that every local section fill out a survey to assess how local sections are doing. This also gives them the opportunity to identify what the local section needs are in order to better support them. Below is the 2015 local section survey along with the responses our section provided.



#	Questions	Answer Choices	Our Response
1.1	Did the section hold officer elections in accordance with the LS's by-laws?	Yes/No	Yes
1.2	Based on required officer positions detailed in your by-laws, what percent of all officer and board member positions were not filled?	0-100%	0
1.3	Are one or more of the elected officers repeating terms? If so, what is the average number of repeat terms?	Number	2.5
1.4	Did your section file a local section annual report within the last two years?	Yes/No	Yes
1.5	Does your section fill a treasurer's report according the specific section requirements?	Yes/No	Yes
1.6	What percent of Local Sections Committee monthly meetings did the section call in to?	0-100%	100
2.1	Does the section operate and maintain an up-to-date webpage?	Yes/No	Yes
2.2	Did the section publish a newsletter (physical or digital) periodically in the last year?	Yes/No	Yes
2.3	Does the section actively maintain a social media presence for communications, advertising, event info etc.?	Yes/No	Yes
3.1	Did the section attend the Local Section Leadership Workshop meeting within the last two years?	Yes/No	Yes
3.2	Did the section conduct any activity with student chapters in its area within the last year?	Yes/No	Yes
3.3	Does the section have a Young Professionals group?	Yes/No	Yes
4.1	How many TOTAL members does the section currently have?	Open Ended	484
4.2	What percent of total members are LOCAL section members ONLY?	0-100%	0
4.3	What percent of the section's board of directors/executive committee is less than 35 yrs of age?	0-100%	0
6.1	Within each section's geographic area, what percent did AIChE memberships (not LS memberships) change between 2014 and 2015?	-101	-3.2
6.2	What percent did local section membership change in the last year (2014 vs. 2015)?	-101	0

Based on the survey results our Chicago local section continues to remain strong especially in relation to other local sections. Below is a figure which represents the noteworthy responses which AIChE headquarters compiled from the survey responses provided by all of the local sections. The questions highlighted below

serve as performance indicators of all sections as whole and their abilities to liaise with AIChE as well as their members.



The area where the survey does not address is the growth in our young professional group and the need for more volunteers to support our local section activities. We need to continue to grow our young professionals group. These are our future Chicago local section leaders and they are also key to supporting a lot of our outreach activities. If members are interested in reviewing the 2015 Local Section Annual report provided by the Local Section Committee please let me know and a copy can be provided.

This month our April monthly meeting features our student poster competition so if you are not able to attend the National Spring meeting, please consider coming to our monthly meeting. This is a good opportunity to support our future chemical engineers.

Adam Kanyuh

AIChE Chicago Section Chair

UOP – A Honeywell Company

April Meeting Information

Every year AIChE-Chicago recognizes academic excellence at our three Chicago Section schools: IIT, Northwestern, and UIC. A student poster session competition/judging precedes dinner. Following the evening's guest speaker, the section will present the Harry McCormack award to the top students from each of our schools along with the poster session awards.

AIChE Local Section Poster Competition

Want to show off your research, class project or Senior Design project?

You could win up to **\$100!**

Undergraduate: 1st Place - **\$100**, 2nd Place - **\$50**

Graduate: 1st Place - **\$100**, 2nd Place - **\$50**

To Enter: Submit abstract (500 words or less) by April 10 by using the form at:

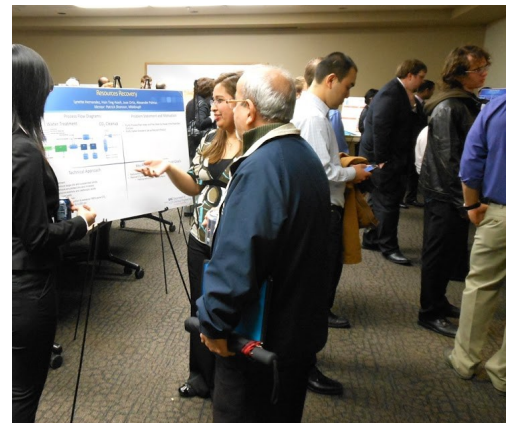
<https://form.jotform.com/60684024877160>

Judging will be done on poster quality and organization, student delivery and ability to answer questions, and project importance/relevance.

Poster must be mounted on stiff board.

Poster Judges Needed!

Judges are needed for the student poster competition that will be held at the **April 12** local section meeting. Posters will be judged on quality and organization, the student's delivery and ability to answer questions, and the importance/relevance of the project. Please email aichechicago@gmail.com by April 10 if you would be willing to assist.



April Meeting Speaker Information

“An Overview of U.S. Natural Gas Production from: Unconventional Shale Resources”

Dr. Syed Tariq

Abstract:

Natural gas plays an important role in supporting the American quality of life, manufacturing and our economy. Natural gas currently accounts for ~30 percent of total energy consumed in the United States. About 15 years ago, the outlook for natural gas in the United States wasn't very promising. Supply was falling, shale resources were considered uneconomic to develop, the infrastructure to support development was limited and LNG import was on the horizon to meet the growing demand.

However, over the last 15 years, the outlook for natural gas has dramatically changed, thanks in large part to critical breakthroughs in technology paving the way to unlock the potential of natural gas resources from shale rock. At current consumption rates, the U.S. is considered to have more than 100 years of natural gas supply under our own feet. Natural gas has and will continue to play a key role in ensuring that we are able to meet our energy needs.

The proposed presentation will cover the following topics:

- 1) why natural gas is important
- 2) benefits of natural gas development vis-à-vis energy security and environmental issues
- 3) the process of how natural gas is developed and produced from shale rock

4) some of the key issues around unconventional natural gas development

The issue of exporting LNG from the U.S. to other countries has received quite a bit of attention in recent years. As such, the presentation will provide some context and pros and cons of exporting LNG from the US. .

Biography:

Dr. Syed Tariq recently retired from ExxonMobil after 39 years of service in the upstream oil and gas industry

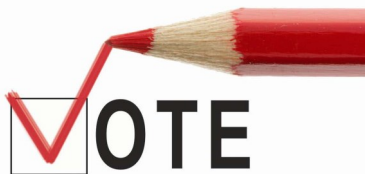


both in the US and overseas. His experience includes: technical/operations management, oil & gas field appraisal and development, economic evaluation, strategic planning and R & D projects. During his career, he managed the largest gas field in the world (North Field, Qatar) in support of the mega LNG projects. Later on, he also managed one of the largest oil fields in the world (Upper Zakum field, Offshore Abu Dhabi). Dr. Tariq is a distinguished member of the Society of Petroleum Engineers and has been an active participant in its activities since 1973. He served as Director of SPE's Qatar section from 2003 – 2006. He has contributed to oilfield technology with over 50 technical papers, SPE's monograph on Oilfield Perforating Technology and US patents. He earned a Ph. D. in Petroleum Engineering from Stanford in 1977.

To Register:

<http://www.cvent.com/d/8fgcwx>

Election Of Section Officers - Absentee Ballots



Election of officers will be held at the meeting on May 18 (tentative date). If you expect to be absent from this meeting, you may vote by absentee ballot. Please contact our secretary at aichechicago@gmail.com to obtain one.

Visit our website!

Be sure to check out our website to make sure you have the latest information on meetings and events! Miss a meeting? You can even find old newsletters and past events!

If you want to help us improve our website, please give us feedback, or even better, volunteer to help us with the website!

Thank you for being part of AIChE Chicago!

www.aiche.org/Chicago



Why Renew Your AIChE Membership?

Renew your membership now to keep learning and growing.

Stay Connected to 40,000+ international members who take advantage of:

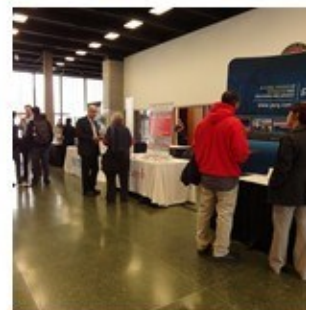
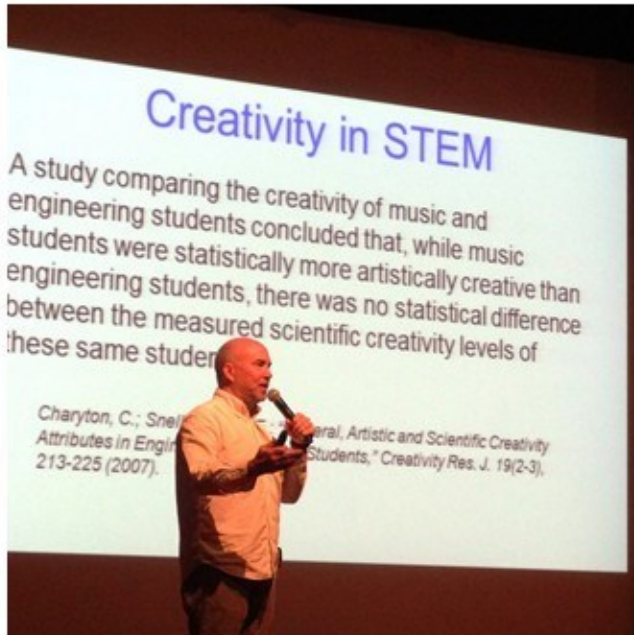


- Subscription to AIChE's flagship publication: CEP*
- Education—Access to e-learning courses and instructor-led training, offering Continuing Education Units and PDHs
- Access to CareerEngineer—a comprehensive job site tailored to chemical engineers
- Access to the AIChE eLibrary—a wealth of information from Knovel Life Sciences and the McGraw-Hill AccessEngineering Library collections

[View COMPLETE benefits](#)

8th Annual AIChE Midwest Regional Conference Photos

For more photos, visit our [Google Photos Album](#).



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PROFESSOR RANDY SNURR

WINS THE 2015 ERNEST W. THIELE AWARD

Congratulations to **Professor Randall (Randy) Snurr**, John G. Searle Professor of Chemical and Biological Engineering at Northwestern University for being awarded the 2015 Ernest W. Thiele award! This prestigious award will be presented to Professor Snurr at a meeting of the Chicago AIChE section in the coming months.

Professor Snurr is awarded the 2015 Ernest Thiele Award for his leadership and creativity in advancing the application of nanoporous metal-organic frameworks in gas separations, gas storage, and showing the power of molecular simulation to design new absorbents.

His research brings together two important threads in Chemical Engineering today: first, the exploding computational power available for solving technological problems that society faces and second, the increasing need for materials custom designed for specialized applications.

The Ernest W. Thiele award is presented annually to a Midwest region member of AIChE who has made outstanding contributions to advance the practice of Chemical Engineering. The award is sponsored by BP, and consists of a plaque and a \$1000 honorarium.

Please join us in congratulating **Professor Randy Snurr** on his achievement. Professor Snurr will be accepting his Thiele Award at the April Monthly Meeting.

Ernest W. Thiele Award Recipients

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
1983	E.W. Thiele	Standard Oil (Indiana)	Catalysis, Distillation fundamental advances
1985	B.B. Broughton	UOP	Aromatics Separation Processes, adsorptive separation
1986	T.J. Hanratty	Univ. of Illinois	Advances in Fluid Mechanics
1987	G. Thodos	Northwestern	Physical Property Advances
1988	L.O. Stine	UOP	Petroleum/Petrochemical Processes
1989	D.T. Wasan	IIT	Research and Progress on Separation Processes
1990	R.S. Mah	Northwestern	Chemical Process System Analysis
1992	J.J. Carberry	Notre Dame	Chemical Reaction Engineering research, innovation, and education
1993	R.J. Bertolacini	Amoco	Catalysis research innovations and leadership
1994	J.W. Westwater	Univ. of Illinois	Research in Heat transfer and contributions in teaching

Ernest W. Thiele Award Recipients (continued)

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
1995	Norman Li	UOP	Pioneering research in membranes and separations
1996	Rathin Datta	Argonne	Original research in metabolic engineering & membranes
1997	Hamid Arastoopour	IIT	Academic leadership and environmental engineering
1998	Arvind Varma	Notre Dame	Fundamental advances in synthesis of materials, catalysis and reactor stability
1999	S. George Bankoff	Northwestern	Heat transfer advances in chemical & nuclear engineering
2000	Henry Linden	IGT (retired)	Leadership of the Institute Of Gas Tech.
2001	Paul Sechrist	UOP	Contributions to computational fluid Mechanics, CCR, and FCC refining processes
2002	Julio Ottino	Northwestern	Research in Chaos Theory and mixing of solids & liquids
2003	Ali Cinar	IIT	Contributions in process modeling, monitoring and control. As an educator championing computers and statistics.
2004	Ted M. Knowlton	PSRI	For his contributions to fundamental and applied research, and his leadership in the fields of fluidization and particulate solids.
2005	Dimitri Gidaspow	IIT	For his fundamental contributions to computational fluid dynamics, multi-phase flow and fluidized bed systems and as an educator.
2007	Lynn H. Rice	UOP	For his fundamental contributions to the petroleum refining isomerization process.
2008	Robert Lyczkowski	Argonne	For Innovative application of multiphase theory
2009	Harold Kung	Northwestern	For contributions to understanding catalytic phenomena, design of catalytic structures, and teaching.
2010	J. Peter Clark	Consultant	For leading the development of numerous food products and new food preparation processes, and as a mentor and teacher.
2011	Urmila Diwekar	IIT and V. Institute	For leading the development of uncertainty analysis in processes.
2012	Richard Hoehn	UOP	For leadership and creativity in Hydroprocessing technology
2014	Alan Zagoria	UOP	For leadership and innovation in hydrogen utilization in refining
2015	Randy Snurr	Northwestern	For advancing nanoporous metal-organic frameworks for gas storage and absorption

Upcoming AIChE Conferences, Meetings and Webinars

Chicago Section Monthly Meeting

April 12, 2016	Monthly Meeting and Poster Competition at UIC
May 18, 2016	Monthly Meeting. Oak Brook/ Downer's Grove Area — Venue TBD

AIChE Conferences

April 10-14, 2016	2016 Spring Meeting and 12th Global Congress on Process Safety, Houston, TX
June 1-3, 2016	4th CCPS China Conference on Process Safety, Qingdao, China
June 7-9, 2016	2016 Process Development Symposium, Boston, MA
July 14-15, 2016	SPS '16 - Waste Valorization: Using Renewable Co-Products as Feedstocks, Lowell, MA
July 18-21, 2016	2016 Synthetic Biology: Engineering, Evolution & Design (SEED), Chicago, IL

AIChE Webinars

April 6, 2016	Whoops! I Made a Mistake Sizing My Relief Device and Then I Installed It Incorrectly!
April 8, 2016	The Flint Water Crisis - Explore What Occurred and How
April 20, 2016	Enterprise Risk Management
April 27, 2016	Technical Due Diligence: What We Examine, Why, and How We Do So
May 4, 2016	Using Ethics to Support Excellence in Reliable & Safe Operations
May 11, 2016	Learn How to Manage Your PSI More Effectively

Officers and Contact Information

Chair	Adam Kanyuh Adam.kanyuh@honeywell.com
Chair Elect	Tom King Thomas.king@honeywell.com
Chair Programming	Mike Toraason mtoraason@bakerrisk.com
	Jesse Calderon jcalderon@bakerrisk.com
Secretary	Jarad Champion Jarad.champion@gmail.com
Treasurer	Pat Shannon shannonph@middough.com
Directors at Large	Dan Rusinak drus45@comcast.net
	Steve Wozniak swozniak@ambitech.com
	Ellen Kloppenborg Ellen.kloppenborg@honeywell.com
House Committee	Bindi Patel bpatel@bakerrisk.com
	Nick Guzman nguzman@bakerrisk.com
Newsletter Editors	Azita Ahmadzadeh azita.ad@gmail.com
	Janet Werner Janet.werner8@gmail.com

AICHE CHICAGO SECTION

American Institute of Chemical Engineers
Chicago Section
13964 Doral Lane
Homer Glen, IL 60491
aichechicago@gmail.com

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www.aiche.org/Chicago

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How many opportunities can you find to learn project management, delegation and leadership skills for free? Becoming an officer in the Chicago Section of AIChE is such an opportunity. While you're learning new skills, your local network grows. Just about all of us are either undergoing a career change, contemplating a career change, or are wondering if our career will be changed for us. Volunteering with AIChE is a way to add skills and accomplishments to your resume.

aichechicago@gmail.com

<http://www.aiche.org/community/sites/local-sections/chicago/announcements/volunteerism>

Submitting Articles to AIChE Columns

We welcome email submissions for our monthly newsletter. Commercial announcements are subject to the fee schedule below. News stories, editorials, technical or career related non-commercial contributions are always welcome with no charge. We consider job postings, announcements of for-fee training courses, expositions, conferences as commercial. Categorization of announcements is at the sole discretion of the Chicago AIChE Board of Directors. Chicago AIChE may publicize activities of interest to our members by cooperating professional societies and other non-profits without charge.

Please submit your material to aichechicago@gmail.com with "newsletter article" as a subject line.

AICHE Publicity Committee Fees	Academic (non-AICHE)		Company		Recruiters	
	Per Month	Per Year	Per Month	Per Year	Per Month	Per Year
Advertisements (3X3)	100	450	150	675	N/A	N/A
Half-Page (~7"x 4.5")	280	1260	420	1890	N/A	N/A
Job Posting (Size?)	50	225	100	450	250	N/A
Special Sizing	Contact Publicity Committee aichechicago@gmail.com					

For the purchase of a year ad, customers have the option of changing ads/jobs month to month. Online payment can be done using <http://www.cvent.com/d/9cq5pw/4W>

Student and AIChE Member Related Postings are Free.

