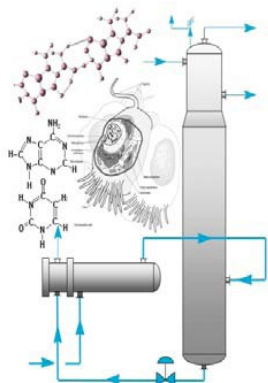


August Newsletter

Chicago Section

www.aiche-chicago.org

August 2013



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AIChE Chicago September 2013 Meeting Notice

Current State of Refining Industry & Upcoming Challenges

Richard Rossi

UOP Business Development Director

CITGO Lemont Refinery Tour

Date: **Tuesday, September 10th, 2013**

Location:

MEETING: The Public Landing
200 W 8th Street (158th & Archer)
Lockport, IL 60441

TOUR: CITGO Petroleum
Lemont Refinery
135th Street and New Avenue
Lemont, IL 60039

Cost: **Members: \$35** **Non-Members: \$40**

Students: \$5 **Unemployed Members: \$20**

To Register Please Click here;

<http://www.cvent.com/d/r4q77>

Agenda

4:15-4:45 Bus 1 Assemble in the CITGO Administration Building parking lot
4:45-5:15 Bus 2 Assemble in the CITGO Administration Building parking lot
5:30 Registration at Public Landing, cash bar
6:30 Dinner
7:45 Technical presentation
9:00 Busses leave Public Landing and go to the CITGO parking lot

Chair's Corner

The August Newsletter marks the beginning of the 2013-2014 year for AIChE Chicago. The AIChE Chicago board of directors has held meetings over the summer, and a program of monthly meetings and events has been developed that we hope everyone will find interesting. The year starts off with a refinery tour at the CITGO Refinery in Lemont on September 10, and at the dinner following the tour Richard Rossi from UOP will review the challenges facing refineries today. Then in October the meeting will include a tour of the Argonne National Laboratories.

The other meetings planned for this year are described later in this Newsletter, and one of those meetings takes place on March 10 making it part of the 2014 AIChE Midwest Regional Conference. The Midwest Regional is being held this year at UIC on March 10-11. This conference is going to contain several sessions dealing with fracking technology since it is expected that fracking technology will have a significant impact on chemical engineering in the future.

Something new that we are trying this year is a scholarship program specifically for dependents of members of AIChE Chicago. A scholarship program has been created for the immediate family of AIChE Chicago members, and several pages of this Newsletter are devoted to describing this new program. During this first year the number of scholarships is limited, but we hope that this program will grow to benefit many members of AIChE Chicago in the future.

Turning to things going on at AIChE, remember that elections are taking place in August-September this year, and you can vote on line.

The polls close on September 16th so check out this site to cast your vote before then: <http://www.aiche.org/news/institute/08-12-2013/polls-open-2013-board-directors-election>. Also, remember that the Annual Meeting is coming on November 3-8 at the Hilton San Francisco Union Square, San Francisco, CA. The conference program is available on line at: <https://aiche.confex.com/aiche/2013/webprogram/ataglance.html>. Check it out and attend the conference if possible. I went to the Spring Conference this year, and it was great!



In the past I've written several Chair's Corner articles about changes taking place in our industries that will have an impact on the work chemical engineers are doing. Those of us who attended the Spring conference heard that we are about to enter what the chairman of AIChE called the "golden age of chemical engineering". Certainly, the job market for chemical engineers has improved.

The chemical engineer salary survey that was recently published also indicated that things are getting better for chemical engineers. AIChE announced on August 12 that it is working to become the "Global Home for Chemical Engineers" with 30% more regional and topical conferences, symposia, workshops and congresses than ever before. AIChE does seem to be at the beginning of something big, and all of us are going to be part of it.

Jerry Wilks
Chair

September Meeting Information

Richard J. Rossi

Biography:

“Current State of Refining Industry & Upcoming Challenges”

Abstract:

The refining industry is very dynamic, experiencing a number of highs and lows over the past decade. Many challenges have been created by the economic recession as well as the emergence of fast-growing economies and competitors in many regions of the world.



This presentation will present an overview of the current state of the market, a view of where it's going, and cover some very specific challenges and opportunities moving forward.

Rich Rossi is the UOP Business Development Director for Hydro-processing, FCC and Heavy Oil product lines in UOP's Process Technology & Equipment Business Unit. Rich previously managed the Hydrocracking Catalyst Technology group and has been Group Leader for the Catalyst, Adsorbent & Specialties Business Unit Technical Services group. Prior to joining UOP, Rich worked as a Senior Hydro-processing Technology Specialist for BP and also worked at their Toledo and Marcus Hook refineries. Rich started his career in Exxon Research & Engineering, after graduating from the New Jersey Institute of Technology with a B.S. in Chemical Engineering. Rich recently received his M.B.A. from North Central College in Naperville, Illinois.

AICHE National Election – Vote Now!

Historically, AIChE National elections have been won by very small margins because few people vote. The National AIChE election is underway. All ballots must be received by 11:59pm, September 16th, 2013. You can vote by proxy on-line until September 16th. As hard copy ballots must be received by September 16th, it is doubtful that you have time to vote by hard copy. The Tellers Committee will meet September 12th. Results will be officially announced November, 2013 at the AIChE Annual Business Meeting in San Francisco, CA.

Profiles of the candidates are on the National AIChE web site at

<http://www.iche.org/about/governance/elections/2013-board-directors-election-timeline#Slate>



If you have not already done so, read the profiles and vote now by proxy at

<http://www.societyelection.com/SocietyElection/AIChE/index.asp>

Your member ID number is required. Your vote does matter!

AIChE Chicago Section Scholarship Fund

My fellow AIChE members;

Someday we shall all want to retire and enjoy the fruits our labors. Toward that goal, we need to plan ahead and perhaps train our replacements to follow in our very large footsteps. You can do that with little effort by helping the next generation of engineers to obtain their engineering education. The AIChE Chicago Section established its affinity Scholarship, available only to immediate family of AIChE Chicago section members, for just that purpose. By making a contribution to the principal of the Scholarship Fund, which is separate from the section operating funds, you can make that happen.

Please consider a donation to the AIChE Chicago Section Scholarship Fund by:

- funding immediate need,
- contributing to the endowment of the scholarship program, or
- both of the above.

Managers: We need to continually fill the pipeline of engineers graduating into our profession. Small contributions now will pay big dividends later when it comes time to fill positions opening up by retiring employees of your enterprises.

AIChE-Chicago members: Is your son, daughter, spouse and grandchildren thinking about becoming a Chemical Engineer? If so, they could, as an entering freshman or continuing undergraduate chemical engineering student, apply for the AIChE Chicago Section Scholarship. Small contributions now yield big dividends for future engineers.

Education reduces the risk of problems associated with poverty; engineers solve problems and design the products and systems that improve the quality of life. Please invest in educating future engineers and join me in contributing to the AIChE Chicago Section Scholarship Fund. You may want to consider this as a part of your annual giving plan.

- \$ 25.00 \$ 100.00 \$ 1000.00 Other
- Immediate need Endowment Both

Please make all checks payable to AIChE Chicago Section Scholarship Fund, and mail them to:

AIChE Chicago Section Scholarship Committee

13964 Doral Lane
Homer Glen, IL 60491
aichechicago@gmail.com

Or:

Visit <http://www.cvent.com/d/j4q7yv/4W>

and click on the "Donate" button, and make your contribution using credit card.

When making a contribution, please provide your name and USPS and/or electronic address. The section will send a thank you letter to document your contribution to a AIChE, a non profit organization under the IRS code at section 501(c)3 (Tax Deductible).

Thank you in advance for your consideration and/or contribution.

Very truly yours,

Azita Ahmadzadeh

AIChE Chicago Section Scholarship Development Team

Scholarship Program

PURPOSE

One of the purposes of the Chicago Section as stated in the By-Laws is to foster engineering education. The scholarship program is one way this is accomplished.

ELIGIBILITY

Eligibility for a scholarship is, in accordance with the wishes of the original donor and donors since then, limited to persons who are:

1. Closely related to an AIChE Chicago Section member in good standing at the time of application. "Closely related" means: A) Children and grandchildren, whether natural, adopted, stepchild, or ward; B) Parents; or, C) Legal spouses.
2. Undergraduate or graduate student membership shall not be sufficient qualification for either the student member or a member of their family, unless they have attended at least 4 meetings in one AIChE-Chicago programming year (Sept-May).
3. Beginning or currently engaged in a course of study leading to a first degree in an ABET (or equivalent) accredited engineering program; and,
4. The recipient of no more than (3) AIChE Chicago Section scholarship awards prior to this year's application.

THE AWARD

1. Each award shall be in an amount of \$1,000 if they are in engineering or \$2000 for those who are in Chemical Engineering program for each academic year in which an award is made.
2. The maximum number of awards to be made in any AIChE Fiscal Year (FY) shall be set by the Board Of Director (BOD) not later than March 31 of each FY.
3. The Selection Committee shall advise the BOD of their recommendations and the BOD shall have the authority to approve all

or reduce the number of awards.

APPLICATION

1. Application for the scholarship must be made using the application form and in the manner prescribed by the Selection Committee.
2. Each application packet is required to include a personal statement requesting the scholarship award as well as academic and personal references.
3. Applications must be received by the AIChE Chicago Section not later than March 1st.

SELECTION

1. The AIChE Chicago Section Scholarship award is intended to be competitive.
2. Evaluation of applicants will be based on the information provided in and/or developed through the application materials.
3. Applicants will, following evaluation by the selection committee, be ranked according to committee preference for making any award(s).

NOTIFICATION

Notice of any award, or decline to award, will be sent by USPS first class mail and electronic mail to all applicants not later than May 1.

ADMINISTRATION

1. There shall be a Selection Committee of five members established and maintained for the purpose of evaluating applicants and determining awards to be made.
 - The AIChE Chicago Section Chair shall be a member, and shall appoint the Selection Committee, and preside over the Selection Committee meeting.
 - The Immediate Past-chair shall be a member, and serve as the Secretary of the Selection Committee.
 - The AIChE Chicago Section Board

Of Director (CSBOD) shall annually select, by majority vote, one section member to replace the longest serving member of the Selection Committee.

1. No member selected by the CSBOD shall serve more than 3 consecutive years, except to serve an unexpired term.

RULES

1. The AIChE Chicago Section Secretary will verify the eligibility of each applicant.
2. All scholarship awards, including renewals, will be made competitively, based on the information provided in the application.
3. In the event an award is declined, the Selection Committee may, at its option, make an award to the applicant having the next highest evaluation.
4. All AIChE Chicago Section scholarships must be used in the first academic year following the award.
5. The awards made shall be presented, on behalf of the recipient, to the ABET accredited engineering institution or, if attending an engineering school outside of the USA, an ABET-equivalent accredited institution at which the recipient is or will be matriculated.
6. If the studies or admission of the recipient of an AIChE Chicago Section Scholarship are delayed for any reason the Chair of the section must be notified within 30 days.
7. All recipients and alternates are subject to these same rules.
8. The AIChE Chicago Section Scholarship is to be independent of any and all other awards, scholarships, and/or grants-in-aid accruing to the benefit of the student.
9. If two or more candidates are found to be equally qualified for an award the final decision will be based upon financial need.
10. In making any award the committee shall

not discriminate against any individual on the basis of any legally protected status under the applicable laws of the United States of America.

NOMINATIONS REQUESTED FOR THE ERNEST W. THIELE AWARD

The Ernest W. Thiele award is sponsored by BP and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This internationally recognized award consists of an engraved plaque and \$1000 honorarium presented at our sectional meeting.

Nomination forms and additional information can be obtained from the Thiele Committee Chair. Completed nominations are due to the committee chair no later than March 1, 2014.

One of the highest honors a distinguished chemical engineer can receive is our Chicago Section Thiele award. Please consider nominating a deserving engineer for this prestigious award.

Jim Simnick

BP Amoco Complex, J-8

150 W. Warrenville Road, Naperville, IL 60566

Ph 630-420-5936, fax 630-420-4832

email: james.simnick@bp.com

The
CHICAGO SECTION
of
AIChE

APPLICATION
for
SCHOLARSHIP

This application must be completed by both new and renewal applicants. This application, and all documentation requested herein, must be received at the address shown below, and on page 4, not later than the following date.

New applicants 1 March
Renewals 15 March

Applicant Information

Name: _____

Address _____

Home Telephone: _____

Related AIChE member

Name: _____

Member No. _____

Relationship _____

Renewal? (circle one) NO YES

for AIChE use, only FILE No.
--

for AIChE use, only AIChE member current _____ date _____

Academic History (use separate sheet if additional space is required)
 List all high schools, vocational schools, colleges and universities attended, with years attendance, diplomas, and degrees, if any. Attach copies of transcripts from all high schools, vocational schools, and colleges or universities.

School & Location	From	To	Degree
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Extracurricular Activities - List all extracurricular activities in which you were involved during your academic years. Identify the associated institution(s), if any. Provide names and contact information of advisors, sponsors, coaches, etc., wherever possible. Use a separate sheet if additional space is required.

AIChE Chicago Section Scholarship Application

Qualifying Examinations - Mark all exams taken and request copies of test results be sent to the address below.

- ACT
 SAT
 GRE
 LSAT
 MCAT

Employment History - List all employment, beginning with the most recent. If you have been a student or otherwise employed less than full time during the past five years, include all part-time employment.

Employer/Location	Dates		Supervisor
	From	To	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Civic Activities - Identify all civic activities in which you have been involved during the past five years.

Civic Activity/Location	Dates		Organization
	From	To	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Section's Activities - Identify all section's activities in which you have been involved and/or attended during the last year.

AIChE Chicago Section Scholarship Application

References - Provide the names, addresses, and other contact information for three persons, none of whom is related to you, who may be contacted regarding your character. Include at least one teacher or professor. Ask one other individual to submit, directly to the address below, letters of recommendation on your behalf.

	Reference	How Known
1.	<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>
2.	<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>
3.	<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>

Personal Statements - Prepare and submit two personal statements (essays) of not less than 250 and not more than 500 words each. One of these essays is to discuss the relationships among your personal activities, interests, and goals. The other is to present an advocate position for your receipt of the AIChE Chicago Section Scholarship.

Submissions - Submit this form, when completed, to:

AIChE Chicago Section Scholarship Committee

Chicago Section
13964 Doral Lane
Homer Glen, IL 60491
aichechicago@gmail.com

Call for action to join the Spring 2014 AIChE Chicago Midwest Regional Conference Planning Committee

The Chicago Section of AIChE will hold its 6th annual AIChE Midwest Regional Conference hosted by the University of Illinois at Chicago (UIC) **March 10-11, 2014**. The program will feature:

1. Technical Program - PDH certificates provided
2. Annual STEM Chicago area middle and high school Engineering as a Career outreach program
3. Monday night AIChE section dinner meeting on Natural Gas "Fracking" issues
4. AIChE Young Professionals Council (YPC) program track

We are actively seeking new and old members of the conference planning committee. If you are interested in participating with the meeting production, please contact:

Technical Program Chair:

Prof Don Chmielewski, IIT Department of Chem/Bio chmielewski@iit.edu

Overall Conference Coordinator:

Jeff Perl, jefferyperl@chichem.com, or perl@uic.edu

Upcoming Chicago Local Section Meetings

September 10, 2013 <i>CITGO Tour</i>	The Public Landing 200 W 8 th Street (158 th & Archer), Lockport, IL 60441
October 16, 2013 <i>Argonne Lab Tour</i>	Argonne Guest House
November 13, 2013	Costas, Oakbrook, IL
January 15,, 2014	Joint meeting with American Chemistry Society
February 19, 2014	Hay Market, Chicago, IL <i>H2O Cosmetic Plant Tour</i>
March 10-11, 2014	<u>AIChE Midwest Regional Conference, UIC—Chicago, IL</u>
April 9, 2014	Student Poster session, IIT,
May 14, 2014	<i>MWRD Stickney waste water treatment plant Tour</i>

AIChE Chicago is now on Facebook and LinkedIn!

Like us on Facebook www.facebook.com/AIChEChicagoSection

Join our group on [LinkedIn!](#)



“Dr. Pete’s one-man show is part stand-up, part statistics, part song, and all incredibly smart.”

New Orleans, LA Defender, 2011

“I have never been so entertained by a power point presentation (or comedic performance for that matter)

Bill Hesse, MIT Ph.D. Student - after a 2012 performance on the MIT campus



Friday Sept. 13th, doors open at 7pm, show starts at 7:30pm
Auditorium, IIT Rice Campus, 201 East Loop Rd., Wheaton, IL

“Feel the Power of the Dork Side” is a hilarious and educational look at science & technology, and their practitioners - starring Dr. Pete Ludovice, the World’s only engineering professor by day, stand-up comedian by night and host of Inside the Black Box on WREK-Atlanta.

See www.drpetecomedy.com/dorkside for tickets, information and tour schedule

Use discount code “Boltzmann” for 25% off advance tickets for Nerds and their friends in the Chicagoland area.

Young Professional Committee Elections

Over the past year, the Chicago young professional group has continued to expand with several new members seeking leadership roles and committee involvement. The YPC elections kicked off with nominations at the yearly YPC summer planning meeting in July to brainstorm and outline programming for the 2013-14 AIChE year. At the meeting, preliminary nominations were held for the positions as outlined in the brand new YPC Chicago constitution. The full elections were held over these past weeks to fill newly organized roles.

This election was a close race and had a record voting population. We are proud to announce the following leaders that will be taking on new roles during the 2013-2014 AIChE year.

YPC Chicago Chair: Jon Haughton
YPC Vice Chair: Julie Gruhn
YPC Administrator: Nick Scanlan
YPC Webmaster: Oleg Yazvin

YPC Membership Committee:
Larry Avtzis
David Kraemer
Meagan Lewis

YPC Programming Committee:
Janet Chu
Tiffany Parrott
Abigail Jackson
Alex Margarychev

AICHE Workshop on Smart Grid for the Chemical Process Industry

September 25-26, 2013, Chicago, IL



Deadline for Early-bird [Registration](#) is August 30th

Registration is now open for the [AICHE Workshop on Smart Grid for the Chemical Process Industry](#). Organized by the CAST Division of AIChE, this workshop will introduce new and existing methods for the CPI to reduce operating costs through demand response. Speaker highlights include:

- **Keynote:** Joseph Paladino, *Senior Advisor, DOE Office of Electricity Delivery and Energy Reliability.*
- **Plenary I:** Mary Ann Piette, *Director, Demand Response Research Center, Lawrence Berkeley National Laboratory.*
- **Plenary II:** Ernst Scholtz, *Global Manager for Grid Automation, ABB Corporate Research.*
- **Plenary III:** R. DeWayne Todd, *Energy Service Manager, Alcoa Power Generating, Inc.*

[Full program](#) details can be found at the workshop website: <http://www.aiche.org/conferences/workshop-on-smart-grid-chemical-process-industry/2013>.

Collocated Preworkshop Activity: [Great Lakes Symposium on Smart Grid and the New Energy Economy](#), September 23-25, 2013, sponsored by the IEEE Power and Energy Society. Discounted joint-registration option is available, see the [Workshop Registration](#) site for details.

Questions and comments - please contact the Workshop Chair Donald J. Chmielewski (chmielewski@iit.edu)

**THANK YOU TO OUR
SEPTEMBER MEETING
STUDENT SPONSOR**

URS

Knowledge is power.

At URS, we believe that the more involved you are with a process from beginning to end, the better equipped you are to provide solutions. Today, through our proven experience, we are helping clients across the Midwest meet the increasing demand for energy and chemicals. From feasibility studies, process and detailed design through construction for oil, gas, and chemical facilities, we help our customers succeed. Which is why more people are turning to us to get it done. We are URS.



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Officers and Contact Information

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Chair Elect	Azita Ahmadzadeh Azita.ad@gmail.com
Chair Programming	Dan Rusinak
Secretary	Hussam Eltayeb eltayeb@gmail.com
Treasurer	Pat Shannon shannonph@middough.com
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	Janet Chu Janet.lily.chu@gmail.com

Directors at Large

Annette Johnston Annette.Johnston@abbott.com	Jeff Umbach jumbach@ambitech.com
	Jenn Guilfoyle

AICHE CHICAGO SECTION

American Institute of Chemical Engineers

Chicago Section
13964 Doral Lane
Homer Glen, IL 60491
aichechicago@gmail.com

We are on the web
www.aiche-chicago.org

We want you for AIChE-Chicago!

We need your help!

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-chicago.org/Section_Info/Volunteer

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.

Student and AIChE Member Related Postings are Free.

