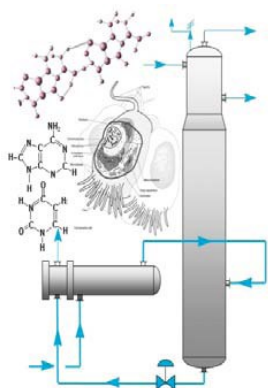


May Newsletter

Chicago Section

www.aiche-chicago.org

May 2014



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May 2014 Local Section Meeting and Water Reclamation Facility Tour

Date: Wednesday, May 14, 2014

Tour Location: Stickney WRP
6001 West Pershing Road
Cicero, IL 60804

First Tour 4:30 PM - 5:30 PM
Second Tour 5:15 PM - 6:15 PM

Program Location:

JC-s Pub & Ristorante
8650 Joliet Road
McCook, IL 60525
708.387.0030

Cost: **Members: \$35** **Non-Members: \$40**
 Students: \$5 **Unemployed/Retired: \$20**

Due to Homeland security, **TOUR REGISTRATION ENDS MAY 1ST**. Allotted spaces on the busses will be limited. No walk-ins will be allowed for the tour.

Everyone attending the Tour **MUST** download a waiver [MWRD Release Waiver](#). The **completed waiver** along with a copy of your **drivers license** must be **scanned and uploaded** with your registration.

Click on the link to register!

<http://www.cvent.com/d/z4q2b2>



Chair's Corner

I've written to you in the past when I was out on trips to various conferences, and today I again find myself at a conference – this time in Galveston. I'm at the RefComm Conference – "RefComm" stands for "Refinery Community". This is actually a combination of two older conferences: the Coking Conference and the Catalytic Cracking Conference. Since both conferences involve processes that heat hydrocarbons up to about 1000°F to cause reactions to occur, it made sense to combine the conferences.

You may have noticed that since the economy has improved there seem to be many more professional or technical conferences occurring. However, that doesn't necessarily mean that more of us are going to conferences. When I was at the AIChE conference in New Orleans, I learned that many of the attendees were paying their own way to the conference. The fact that engineers are using their own money to attend professional conferences is a sign of the times. Perhaps it's a vestige from the recession and eventually companies will again send their people to technical conferences to keep their employees up to date.

However, the fact that engineers are spending their own money to attend technical conferences is also evidence that we all realize that we need to keep ourselves technically up to date -- even if it means we use our own resources to accomplish this. AIChE Chicago's monthly meetings and the Midwest Regional Conference are designed to expose members to new technologies for this very reason. For example, at the Midwest Regional Conference there were several presentations on fracking technology and processing of fracked crudes. AIChE's past president, Phillip R. Westmoreland, said that we are entering the "golden age of chemical engineering" because fracking technology is going to pro-

vide such an abundance of raw materials to the chemical industry. We can all see that golden age coming, and we are willing to use our own resources to ensure that we are ready to take part in it.

When I learned from talking to people attending the Spring conference that their attendance was not being supported by their companies, I first thought that it was negative that companies weren't supporting the development of their people. However, it later occurred to me that engineers using their own money to pay for a conference was really very positive. Those engineers were doing something to ensure their future in the golden age of chemical engineering, and I applaud their initiative.

At the May meeting, AIChE Chicago will elect board members for next year. These elections provide us all with an opportunity to directly participate in AIChE Chicago. A nominating committee has made recommendations for the open positions, but those nominations are not intended to be a limit. If you want to get more involved with AIChE Chicago come to the May meeting and submit your name for one of the open positions or for one of the appointed positions that will be open next year. Participating in a local section of AIChE is another way to contribute to this golden age. It involves using some of your own resources (your time), but there are some significant rewards that come from participating in a volunteer organization like AIChE Chicago.

Jerry Wilks

Chair



May Speaker Bio and Abstract

Richard Lanyon

Retired Executive Director

Metropolitan Water Reclamation District



Biography:

Richard Lanyon has had a life long association with the waterways in and around Chicago. He grew up along the North Branch, attended Lane Technical High School and the University of Illinois Navy Pier campus. After graduate school he worked as a beginning engineer on the Lake Diversion legal controversy and capped his working life with a 48-year accomplishment with the Metropolitan Water Reclamation District. He enjoys biking along the waterways, Lake Michigan and hometown Evanston, Illinois neighborhoods where he lives with his wife Marsha Richman.

Dick retired as Executive Director of the Metropolitan Water Reclamation District in December of 2010. As Executive Director, he oversaw the day-to-day operations for stormwater management, wastewater recovery and related services to protect the environment for five million people.

Abstract:

ASIAN CARP and SEPARATION of the WATERSHEDS

The Chicago Area Waterways (CAWS) is a 77-mile network of canals that provide drainage, navigation and recreation for the city and numerous suburbs in the metropolitan region. For over 100 years, these waterways have served as a connecting link between the Great Lakes and Mississippi River watersheds. Since the opening of the Erie and Welland Canals in the 1820s and the St. Lawrence Seaway in the 1950s, aquatic invasive species have been an issue for the Great Lakes. Recently, the appearance of Asian carp in the Mississippi River and their movement upstream in the Illinois River has given rise to concern for the potential movement of this invasive species into the Great Lakes through the CAWS. This concern has resulted in litigation between states, and proposals and studies to separate the two watersheds, thereby imposing one barrier to the movement of Asian carp.

This presentation will review the current status of Asian carp movement and monitoring, the studies regarding separation and some of the proposals for separation, including the recently released report from the Corps of Engineers. It will also describe the CAWS, point out its complexity and some of the issues that need to be addressed in considering proposals to separate the watersheds. In addition, the threat to Lake Michigan quality that may arise from some of the separation proposals will be examined. Separation of the watershed would be a complex undertaking

with uncertain outcomes. The danger of unintended consequences is significant. Maintaining the integrity of the CAWS is critical to protecting Lake Michigan as a source for potable water for Illinois and the three neighboring states, and for efficient drainage of the Chicagoland area.

May Meeting Information

Wastewater Plant Tour (Optional):

First Tour starts at 4:30. Second Tour starts at 5:15. MUST REGISTER BY MAY 1ST AND SUBMIT [MWRD Release Waiver](#). The **completed waver** along with a copy of your **drivers license** must be **scanned and uploaded** with your registration.

Location:

Stickey WRP
6001 West Pershing Road
Cicero, IL 60804

Meeting at JC's Pub & Ristorante

Restaurant Location:

8650 Joliet Road
McCook, IL 60525
708.387.0030

Agenda:

4:30 pm: First Tour
5:00 pm: Registration for Meeting begins at JC's
5:15 pm: Second Tour
5:30 pm: Social Hour / Cash Bar
6:30 pm: Dinner
7:00 pm: Local Section Business (Officer Elections)
7:30 pm: Technical Presentation
8:30-9:00 pm: Guests depart

To register click:

<http://www.cvent.com/d/z4q2b2>

2013-2014 Elected Officers

Chair– Azita Ahmadzadeh

Azita Ahmadzadeh received her PhD in Chemical Engineering from IIT in Chicago and worked as a CFD modeling specialist at Simutech group for 5 years. She was involved in AIChE national as session chair at national meetings. She was the MPC of the 2013 PDS. Azita has been very active in the local section as newsletter editor for many years and also as the fundraising committee chair for the Midwest Regional Conference. She is the 2010 recipient of the AIChE Local Section Committee's Shining Star Award for outstanding volunteerism.

Past Chair - Jerry Wilks

Jerry Wilks is a senior metallurgy and corrosion engineer at the CITGO Lemont refinery since 2005. Prior to that Jerry has been a US Air Force officer and also worked at different engineering position at AMOCO and BP Naperville campus and Whiting refinery. He has a BS in Metallurgical Engineering and two masters degree in Materials Engineering and Chemical Engineering all from IIT in Chicago. Jerry holds three US patents and is the author of several publications. He has served as the secretary and vice-chair program of the AIChE Chicago section and has been a contributor and organizer of the AIChE midwest regional conferences since 2006. He is currently the Chair of the Chicago section.

Director at Large - Jennifer (Guilfoyle) Bauer (continuing)

Jennifer (Guilfoyle) Bauer is a Design Engineer with UOP, a Honeywell Company, in Des Plaines, IL. She was previously a Process Engineer at Middough. She received a BS in Chemical Engineering from Illinois Institute of Technology (IIT) and is a registered EIT. She is also an active member of the Chicago Section's Young Professional Committee and participates on the national ChemE Jeopardy subcommittee.

Director at Large –Steven Wozniak (continuing)

Steven Wozniak is a Project Manager in Hydrogen Technologies, Gas Processing & Hydrogen with UOP. Prior to that Steven was a Consultant with Jacobs Consultancy, a Senior Process Engineering Lead with Jacobs Engineering in Houston where he lead a team of process engineers in

the design and integration of various process units into refineries. He has over 10 years experience and design expertise in ULSD hydrotreaters. Steven served as the Secretary in 2012 and House Chair in 1998 for AIChE Chicago. He holds a B.S. in Chemical Engineering from the University of Illinois Champaign Urbana and earned a M.S. in Chemical Engineering in a joint degree between the National University of Singapore and the University of Illinois Champaign Urbana.

Proposed Slate for 2014-2015

Chair Elect - Open for Nominations

Secretary - Diana Mantonis

Treasurer - Patrick Shannon

I am currently employed as a Senior Staff Engineer at Middough, Inc. and I have held process engineering positions at several engineering companies in the Chicago area as well as in Houston. I have proudly served the Chicago Section as Chair, Past-Chair and House Committee Chair. And I have been a New Officer Training leader. I have also been Program Chair and Session Chair for the Midwest Regional Meeting. It is an honor to fill any AIChE local section elected position, and I expect to serve with honesty and enthusiasm. I will do my best to fulfill all Chicago Section Treasurer requirements.

Director at Large - Dan Rusinak

Daniel Rusinak, PE, is Chief Process Engineer at Middough, Inc, Chicago office. He has over 37 years of professional engineering experience in development, design, construction and operations of specialty, polymer, and fine chemical plants. Dan has served the AIChE Chicago Section as Vice-Chair Program 2011-2012 and 2013-2014. He was also the House Committee Chair for two years.

Vice Chair Program - Tom Stephan

Reminder!

May Meeting **Tour+Dinner Registration ends on May 1st, with NO WALK-INS!**

However, May Meeting Dinner Only registration will continue, so if you don't register in time for the tour, join us for the Dinner, Officer Elections, and Technical Presentation!

Upcoming AIChE Conferences and Webinars

May 1, 2014	Frontiers in Particle Science and Technology Symposium Oak Brook, IL
May 7, 2014	Modeling Non-Ideal Reactors and Mixers Webinar 2 PM EDT
May 14, 2014	Intro of Population Balance Modeling for Particulate Processes Webinar 2 PM EDT
May 28, 2014	The Nexus of Water and Energy Webinar 2 PM EDT
June 4, 2014	Processing Challenges of Tight Oil Webinar 2 PM EDT
June 10, 2014	Practical Applications of LCA in Industry Product and Design Web Forum 1 PM EDT
June 10-12, 2014	Process Development Symposium Philadelphia, PA
June 17, 2014	Summer 2014 Career Fair 1-4 PM EDT

Young Professionals News

Graduation Party and Social

When: Thursday, May 1st, 6:30PM

Where: Flo&Santos, 1310 S Wabash Ave, Chicago

RSVP: Tiffany, Tiffany.Parrott@Middough.com by **Mon, April 28th**

Please join AIChE YPC in congratulating the local chemical engineering graduates!

We are hosting an event for graduating students with a cake and door prizes!

Please bring cash for food and drinks.

Please RSVP to

Tiffany, Tiffany.Parrott@Middough.com
by **Mon, April 28** to attend.



YPC Fermilab STEM Expo Volunteering

On Wednesday, April 23, Jon Haughton and Oleg Yazvin volunteered to represent AIChE at the Fermilab STEM Career Expo. Fermilab's STEM Career Expo is an expo for Kane County and DuPage County high school students to highlight different career options in science, technology, engineering and mathematics. Over 800 students and parents were in attendance and a lot of them asked great questions about chemical engineering.

YPC Fauske Lab Tour

On Thursday, April 10, sixteen YP's and students attended a tour of Fauske's testing labs in Burr Ridge, IL. Attendees visited the thermal stability, flammability, and combustible dust testing laboratories. The tour included exciting demonstrations, and both YPs and students enjoyed the opportunity to see Fauske's state of the art equipment.



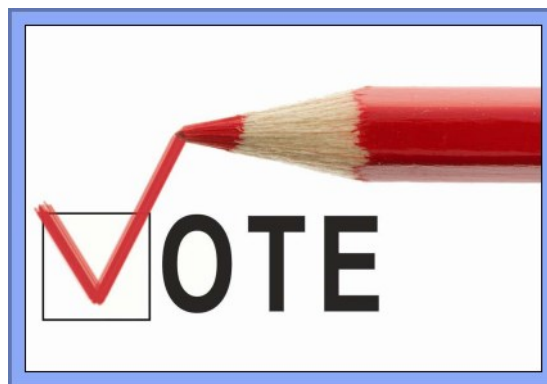
Election of Section Officers

ABSENTEE BALLOTS

At the May meeting, AIChE-Chicago will be holding the annual election of local section officers. The proposed slate of officers for fiscal year July 1, 2014—June 30, 2015 is included in this newsletter. The slate will be voted upon at the May meeting. At the meeting, there will be one last call for nominations before the vote begins. Absentee ballots will be counted before

the meeting. If no other nominations are received, a voice vote will be called for the proposed slate. If additional nominations are received, a vote will be called for each individual position.

Members may send in an absentee ballot to **Jerry Wilks** gwilks@citgo.com





PROCESS ENGINEERS

URS Corporation is a fully integrated engineering, construction, environmental, and technical services organization with the capabilities to support the full project life cycle – from inception through start-up and operation to decommissioning and closure. We are a publicly-traded company with more than 56,000 employees in 50 countries. Currently we are looking to fill the following requirements in our Chicago Process Engineering group:

Job Description

- Provide detailed design of processes for refineries and chemical plants
- Use simulators to develop heat and mass balances
- Develop Piping & Instrumentation Diagrams and Process Flow Diagrams
- Perform hydraulic network calculations for line sizing starting with Process Flow Diagrams
- Perform relief valve calculations
- Interact with other disciplines, including equipment specialists and instrument engineers

Minimum Position Requirements

- Bachelor's degree in Chemical Engineering
- Experience in the design of facilities for refineries and chemical plants
- Knowledge of major processing equipment, including fired heaters, vessels, heat exchangers, pumps, and compressors
- Technical aptitude and ability to grasp a general knowledge of multiple disciplines and technologies
- All experience levels are desired; new and recent grads are also encouraged to apply
- US citizenship or permanent residency

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.



MIDWEST PROCESS ENGINEERING Chicago, IL 60606 1.312.577.7437
Douglas.chidley@urs.com

URS

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OIL & GAS
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POWER
INDUSTRIAL
URS.COM

Officers and Contact Information

Chair	Jerry Wilks gwilks@citgo.com
Chair Elect	Azita Ahmadzadeh Azita.ad@gmail.com
Chair Programming	Dan Rusinak rusinad@middough.com
Secretary	Katherine Sheehan katherinea.sheehan@gmail.com
Treasurer	Pat Shannon shannonph@middough.com
Newsletter Editors	Azita Ahmadzadeh azita.ad@gmail.com
	Janet Chu Janet.lily.chu@gmail.com

Directors at Large

Steve Wozniak Steven.Wozniak@Honeywell.com	Jeff Umbach jumbach@ambitech.com
Jenn Guilfoyle Jennifer.guilfoyle@honeywell.com	

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.

