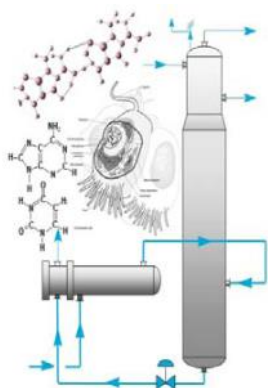


# September Newsletter

Chicago Section

[www.aiche.org/Chicago](http://www.aiche.org/Chicago)

September 2014

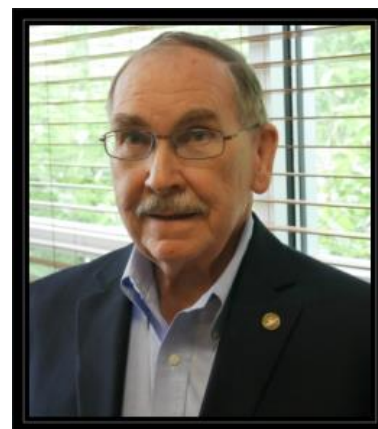


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## AIChE Chicago September Meeting

***Dr. J. Peter Clark***  
***Consultant to the Process Industries,***  
***Co-editor of Practical Ethics for Food Professionals (Wiley-Blackwell)***



**Date:** ***Thursday, September 18th, 2014***

**Location:** ***RAM Restaurant & Brewery***

***1901 McConnor Parkway, Schaumburg, IL***

***847-517-8791***

**Cost:** ***AIChE Global and Local Section Member: \$40***  
***AIChE Global Member: \$45***  
***Non-Member: \$50***  
***Students: \$10***  
***Unemployed/Retired: \$15***

***Register Here:*** <http://www.cvent.com/d/24q5sb/4W>

### **Agenda**

5:00 – 6:00 RAM Brewery Tours starting every 15 min.  
5:30 - 6:30 Registration and social hour—Cash bar  
6:30 - 7:30 Dinner  
7:30 - 8:45 Technical presentation

## Chair's Corner

Welcome back!

I hope everybody had a good summer/fall combination so far and is ready for a new year of AIChE Chicago.

First I want to thank the 2014 officers and volunteers for their efforts over the past year and also thank those who voted in the elections for 2015 officers.

My name is Azita Ahmadzadeh and I will be serving as the section chairperson this year. I am so excited to lead our well lively local section and hope to provide the best that both AIChE and Chicago can offer as was done in the previous years. I rely both on the more seasoned volunteers as well as the newly elected officers to create another fruitful year with good programming, food and new opportunities to make new friends and learn new materials or just refresh the old ones.

I got involved with AIChE in the national level about 17 years ago. As a graduate student at IIT in Chicago, I was encouraged to attend the AIChE annual meetings which would be a great opportunity to meet new people, showcase my work and acquire knowledge about other researcher's work in my area of study. My local section contribution started 9 years ago when I started attending the planning meetings for the Midwest regional symposium (now Midwest Regional Conference, MRC). It was a very good decision and I enjoyed every minute of this work as it is rewarding with noticeable benefits to our technical community (more on that in future chair corners).

During the past several years, I was mainly in charge of the section newsletter as well as fundraising committee chair for the MRC. Of

course I was also engaged in section affairs in many ways and have worked closely with most of the past officers. The AIChE Chicago section family is a fun part of my life.

Other than my involvement with AIChE, I have started and coaching a First Lego League (FLL®) for a group of mainly girls (including my daughter) to promote engineering from early stages. For those of you who might not be familiar with FIRST organization and FLL, this is an engineering orientated organization that promote STEM for all kids of k-12. FLL is for kids from 4<sup>th</sup> to 8<sup>th</sup> grade. Every year there is a new challenge for the teams where they have to achieve some tasks using working robots built from lego pieces. The FLL competitions are very energetic, well organized and friendly. My son is also an active team member of FRC (FIRST Robotics Competition), at his high school.

In my mind, Chemical Engineers should also invent something this attractive to teach youngsters the value of technology in Chemical Engineering industry, how it touches our world every day and makes them interested in this field. Your ideas are welcome.

I've also initiated and started a scholarship program last year for our member's immediate family who are going to or currently studying engineering and more specifically chemical engineering. This year we are expanding this program to all of Chemical Engineering undergraduate students who are actively participate in the monthly meetings. The new rules will be



published in the next newsletter.

I would like to propose we all work together to achieve a measurable goal this year. While we can set up as many goals as we want, this year my main goal (other than the usual day to day work of the section) is "to work and communicate as closely as possible with all of the organizations which employ our members, in local industrial, educational and governmental sectors". This communication should be two-way and that is not an easy task. I sincerely hope to achieve this goal by the end of my term or at least build the foundation for it so that it can thrive in future years. Let's add at least ten new volunteers to our liaison list who are willing to facilitate our two-way communi-

cation. It could be as simple as posting our newsletter in your respective organization and bring back your organization expectations from Chicago section.

All of us can play an active role by sharing our concerns, ideas and comments as often as possible by email, phone, and surveys or in person. I am looking forward to meeting you all in person during our first local section meeting which will be held in September. Please look for more information in this newsletter.

Azita Ahmadzadeh

AIChE Chicago Chair person

UOP, A Honeywell Company

## 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](mailto:james.simnick@bp.com)

[Link to Memorial Tributes \(National Academy of Engineering\) about Ernest W. Thiele](#)



*Ernest W. Thiele*

## | **September Meeting Information**

**Dr. J. Peter Clark**

***Consultant to the Process Industries,  
Co-editor of Practical Ethics for Food Professionals (Wiley-Blackwell)***

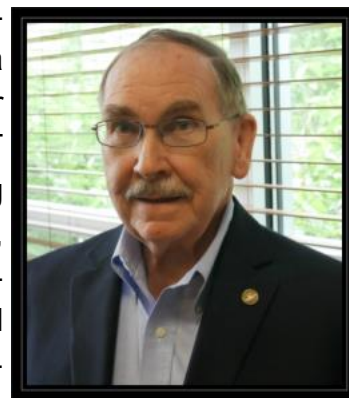
### **Abstract:**

Food processing plants are governed by regulations promulgated and enforced by several federal agencies, including the Food and Drug Administration (FDA), U. S. Department of Agriculture (USDA) Food Safety and Inspection Service (FSIS), the Environmental Protection Administration (EPA), Occupational Safety and Health Administration (OSHA), and, often, state public health agencies. The recently passed Food Safety Modernization Act (FSMA) granted additional authority to FDA, among other measures, to compel recalls, to regulate foreign food suppliers to the US market, and to require Hazard Analysis Critical Control Points (HACCP) plans or their equivalent in all US food plants.

### **Biography:**

Peter Clark is a consulting process engineer in Oak Park, IL and Contributing Editor of Food Technology magazine, with a monthly column on processing since 2002. Previously, he was Vice President , Technology with Fluor Daniel (a major engineering firm); Senior Vice President, Process Technology of A. Epstein and Sons International (a large architecture and engineering firm with a food practice) and Presi-

dent of Epstein Process Engineering (a subsidiary); Director of Research for ITT Continental Baking Company; Assistant, then Associate Professor of Chemical Engineering at Virginia Tech; and he began his career as a Research Engineer with the U. S. Agricultural Research Service.



He earned his B.S.Ch.E from Notre Dame and his Ph. D. From the University of California – Berkeley. He has published over forty papers and eight books in addition to his columns. He is a registered professional engineer in Illinois and Virginia, is a Fellow of AIChE and of IFT, a Certified Food Scientist, and past chair of IFT Food Engineering Division and the New Products and Technologies Committee and of AIChE Food, Pharmaceutical and Bioengineering Division, from which he received the Division Award in 1998. In 2010, he received the Ernest Thiele Award, sponsored by BP, from the AIChE Chicago Section. In 2011 he received a Life Achievement Award from the International Association for Engineering and Food. He has worked as a volunteer or paid consultant in India, Israel, Egypt, Haiti, Moldova, Malawi, Kenya, Uzbekistan, Albania, Mexico, Canada, France, Germany, and England.

**To Register:** <http://www.event.com/d/24q5sb/4W>

## ***Congratulations & Welcome New Officers and Committee Chairs***

### ***Co-Vice Chair Meeting Program: Mike Toraason***

Michael Toraason is currently a Project Consultant at Baker Engineering and Risk Consults, or BakerRisk. He has held positions in both Houston and Chicago for BakerRisk. Michael primarily focuses in Risk Assessments for the petrochemical industry with a focus in Consequence analysis', Quantitative Risk Assessments, and HF Alkylation QRA's. He also has experience on the Qualitative side of risk as well. Michael has been a member of the AIChE Chicago section for the past two years, and is serving as the Co-Vice Chair Program with Jesse Calderon, which is his first position held with AIChE Chicago. He is looking forward to a higher level of involvement with the AIChE Chicago section currently and in the future.



### ***Co-Vice Chair Meeting Program: Jesse Calderon***

Jesse Calderon is a consulting process safety engineer at BakerRisk in Chicago, IL where he has gained experience in consequence modeling and risk analysis. He earned his B.S.Ch.E from the University of Iowa and is a co-vice chair of programming for AIChE Chicago's local section. He has prior experience in the petroleum refining industry and focused on energy and environmental studies at the University of Iowa.



### ***Co-Chair House Committee: Bindi Patel***

Bindi Patel recently graduated with a chemical engineering degree from the University of Illinois at Urbana-Champaign and started working at Baker Engineering and Risk Consultants, Inc. as a process safety consultant in June 2014. Since starting at BakerRisk, her work has focused on gaining experience in facility sitting studies and quantitative risk analyses. Bindi will be working alongside Nicolas Guzman, Jesse Calderon, and Michael Toraason to organize and plan the monthly AIChE meetings.





## ***Congratulations & Welcome New Officers and Committee Chairs***

### ***Co-Chair House Committee: Nick Guzman***

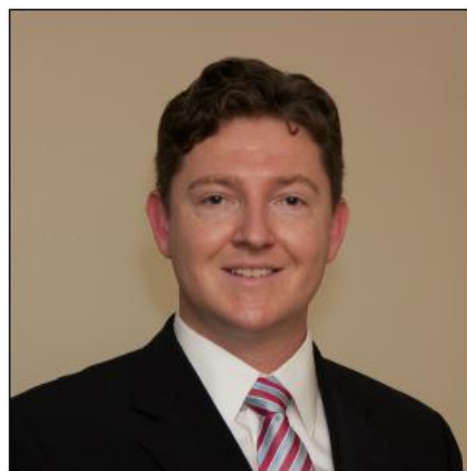
My name is Nick Guzman, I just graduated from the University of Illinois at Urbana Champaign in May with a Bachelor's degree in Chemical Engineering. I interned with BakerRisk from January of 2013 through August of 2013 and came on full time as an engineering consultant on June 2, 2014, two weeks after graduating college. I now have experience with FSS/QRA studies, PHA HAZOPs, HF Alky QRA studies, and IRE work.

During my college years, I served as the Vice President of New Member recruitment for a fraternity on campus, and participated in AIChE and the society of Hispanic professional engineers (SHPE). I made the Dean's list during my final semester.



### ***Secretary: Jarad Champion***

Jarad Champion is a licensed chemical engineer with eight years of experience working on hazardous waste cleanup and water resources projects. He has a BS in chemical engineering from University of Illinois at Urbana-Champaign and a MS in environmental engineering from Northwestern University. Mr. Champion has worked on treatment systems and regulatory compliance for remediating groundwater impacted by chemical releases sites across the nation. He has also prepared the preliminary design for a drinking water treatment system using multiple advanced technologies. Mr. Champion has recently moved back to Chicago from the San Francisco Bay Area with his wife and nine-month old son.



**AIChE Chicago is now on Facebook and LinkedIn!**



Like us on Facebook [www.facebook.com/AIChEChicagoSection](http://www.facebook.com/AIChEChicagoSection)



[Join our group on LinkedIn!](#)

## IIT Chemical Engineering Department

### Fall 2014 Seminar Series



#### **Department of Chemical and Biological Engineering**

**Wednesday, 3:15 pm – 4:30 pm**  
**Perlstein Hall Auditorium, Room 131**  
**10 West 33<sup>th</sup> Street, Chicago**

- Sept 3     Carl Laird (Purdue University)  
Parallel Algorithms and Applications in Structured Large-Scale Optimization
- Sept 10    Sohail Murad (Illinois Institute of Technology)  
Fluid and Nanoparticle Transport in Lipid Bilayer Membranes Using Coarse Grained Molecular Dynamics Simulations
- Sept 17    Jennifer Fiegel (University of Iowa)  
Aerosol Interactions with Pulmonary Fluid Interfaces
- Sept 24    Elizabeth Biddinger (City Colleges of New York)  
Investigating Ionic Liquids in Electrochemical Applications
- Oct 1      Vibha Kalra (Drexel University)  
Freestanding Nanofiber Electrodes for Supercapacitors and Batteries
- Oct 8      Sankaran Sundaresan (Princeton University)  
Shear Flows of Dense Granular Assemblies
- Oct 15     Ray Adomaitis (University of Maryland)  
Reaction Factorization for the Dynamic Analysis of Thin-film Deposition Systems
- Oct 22     Arijit Bose (University of Rhode Island)  
Emulsions, Electrodes and Polymer Composites Using Carbon Black and Graphene-Based Materials.
- Oct 29     Nancy Karuri (Illinois Institute of Technology)  
TBD
- Nov 5      Jan Sengers (University of Maryland)  
Fluctuations in Nonequilibrium Thermodynamics
- Nov 12     OPEN
- Nov 19     No Seminar (AIChE Annual Meeting)
- Nov 26     No Seminar (Thanksgiving Holiday)
- Dec 3      OPEN

## *AIChE Chicago has a new look.*

What we do and where the meetings are. We are pleased to reveal our newly website for AIChE Chicago. Feel free to Take a Peek.

We hope you will visit the new website at our new address, [www.aiche.org/Chicago](http://www.aiche.org/Chicago) and while you are there, let us know what you think by clicking here. We know there is still work to do. In coming months, we hope to continue improving the site so that it best serves how we communicate with you.

Thank you for being part of AIChE Chicago.



[www.aiche.org/Chicago](http://www.aiche.org/Chicago)

## *Congratulations to Chicago YP 2015 Officers*

The Chicago YPC is starting up a new year! We want to thank the 2014 officers and volunteers for their efforts over the past year, and thank those who voted in the elections for 2015 officers.

The 2014-2015 Board is below:

**Chair:** Julie Gruhn

**Vice Chair:** Todd Macmillian

**Admin:** Nick Scanlan

**Webmaster:** Oleg Yazvin

**Membership Committee:** Marisa Haire, Larry Avtzis, Sequoia Murray

**Programming Committee:** Abigail Jackson, Janet Werner, Fernando Franco

**Past Chair:** Jon Haughton

We will have another great year of programming for professionals, undergraduate students, graduate students, and everybody else under the age of 35, and our first event is tentatively planned for the week of September 22 – Stay tuned for details!

How will you find out? By visiting our [Chicago YPC webpage](http://www.aiche.org/Chicago), joining our [Google Groups listserv](#), and by joining our [Facebook Group](#).

We look forward to seeing everyone at the events in the coming year.



## AIChE Global Election – Vote Now!

It's election season. Historically, AIChE National elections have been won by very small margins because few people vote. The National AIChE election is underway.

Paper ballots for the election of AIChE's 2015 President-Elect and Directors were mailed on Tuesday, September 2. The online electronic proxy will be open for voting on **Tuesday, September 16**.

Profiles of the candidates for this year's election are available at

<http://www.aiche.org/about/governance/elections/2014-board-directors-election#Slate>.

Here you will find the candidates' bios and platform statements that outline their view for AIChE.



If you choose to participate in the election online, you will need your Member ID, which will serve as your Personal Identification Number. If you have any questions regarding your member information, please contact the AIChE Member Service Center toll-free at [800.242.4363](tel:800.242.4363) (U.S.) or visit [www.aiche.org/phone](http://www.aiche.org/phone) (outside U.S.) to obtain your country's number, or email [customerservice@aiche.org](mailto:customerservice@aiche.org).

If you have any questions regarding the election or voting process, please email [election@aiche.org](mailto:election@aiche.org).

Look for the ballot in your mailbox soon and the online polls to open on September 16.

## Why Renew Your AIChE Membership?

Renew 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
- Discount Access to Live and Archived, on-demand webinars and conference presentations from industry and academic luminaries
- 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
- Registration discounts to the AIChE Spring and Annual Meetings
- Online networking via AIChE's Member Community and via ChEnected, the Association's blog
- Insurance and Financial Planning Programs – discounts and coverage

**[View COMPLETE benefits](#)**

## Upcoming AIChE Conferences and Webinars

### September

12-Sep	<a href="#">12:00 AM4th International Forum on Sustainable Manufacturing</a>
14-Sep	<a href="#">10th International Conference on Distillation and Absorption</a>
15-Sep	<a href="#">6th CCPS Latin American Conference on Process Safety</a>
	<a href="#">12:00 AMISIC 19</a>
29-Sep	<a href="#">13th Mediterranean Congress of Chemical Engineering</a>

### October

5-Oct	<a href="#">International Conference on Greenhouse Gas Technologies GHGT-12</a>
	<a href="#">GHGT-12 Greenhouse Gas Control Technologies Conference</a>
6-Oct	<a href="#">XXVII Interamerican Congress of Chemical Engineering</a>
	<a href="#">XXVII Congreso Interamericano y Colombiano de Ingeniera Química</a>
	<a href="#">15th Asian Pacific Confederation of Chemical Engineering Congress</a>
8-Oct	<a href="#">Alternative Natural Gas Applications Workshop</a>
9-Oct	<a href="#">Waste-to-Energy Research and Technology Council (WERT) 2014</a>
	<a href="#">6th AIChE Southwest Process Technology Conference</a>
26-Oct	<a href="#">The 4th International Gas Processing Symposium</a>

### November

14-Nov	<a href="#">2014 Annual Student Conference</a>
16-Nov	<a href="#">2014 AIChE Annual Meeting</a>
19-Nov	<a href="#">Sustainable Packaging Symposium SPS '14</a>

### December

7-Dec	<a href="#">The 2nd IBN International Symposium</a>
14-Dec	<a href="#">2014 Global Summit on Process Safety</a>

## Upcoming Chicago Local Section Meetings

<i>Wednesday Oct. 15</i>	<i>Dr. Russel Ogle</i>
<i>Wednesday, Nov. 12</i>	<i>Dr. Robert Kleinberg</i>

### Officers and Contact Information

Chair	Azita Ahmadzadeh <a href="mailto:Azita.ad@gmail.com">Azita.ad@gmail.com</a>
Chair Elect	Adam Kanyuh <a href="mailto:Adam.kanyuh@honeywell.com">Adam.kanyuh@honeywell.com</a>
Chair Programming	Mike Toraason <a href="mailto:mtoraason@bakerrisk.com">mtoraason@bakerrisk.com</a>
Secretary	Jarad Champion <a href="mailto:Jarad.champion@gmail.com">Jarad.champion@gmail.com</a>
Treasurer	Pat Shannon <a href="mailto:shannonph@middough.com">shannonph@middough.com</a>
Newsletter Editors	Azita Ahmadzadeh <a href="mailto:azita.ad@gmail.com">azita.ad@gmail.com</a>
	Janet Chu <a href="mailto:Janet.lily.chu@gmail.com">Janet.lily.chu@gmail.com</a>

### Directors at Large

Dan Rusinak	Steve Wozniak <a href="mailto:Steve.wozniak@honeywell.com">Steve.wozniak@honeywell.com</a>
Jenn Guilfoyle <a href="mailto:Jennifer.guilfoyle@honeywell.com">Jennifer.guilfoyle@honeywell.com</a>	

## AICHE CHICAGO SECTION

American Institute of Chemical Engineers  
Chicago Section  
13964 Doral Lane  
Homer Glen, IL 60491  
[aichechicago@gmail.com](mailto:aichechicago@gmail.com)

We are on the web  
[www.aiche.org/Chicago](http://www.aiche.org/Chicago)

## 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](mailto: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](mailto: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
<b>Advertisements (3X3)</b>	100	450	150	675	N/A	N/A
<b>Half-Page (~7"x 4.5")</b>	280	1260	420	1890	N/A	N/A
<b>Job Posting (Size?)</b>	50	225	100	450	250	N/A
<b>Special Sizing</b>	Contact Publicity Committee <a href="mailto:aichechicago@gmail.com">aichechicago@gmail.com</a>					

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.

