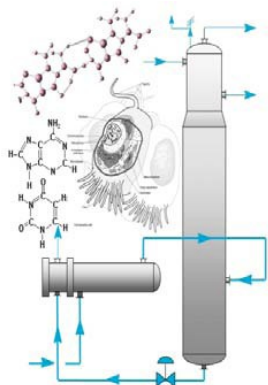


April Newsletter

Chicago Section

www.aiche.org/Chicago

April 2015



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April 2015 Local Section Meeting & Annual Poster Competition

“Chemical Mechanical Planarization (CMP): An Enabling Technology for Integrated Circuit (IC) Device Manufacturing”

Dan McMullen

Cabot Microelectronics

Date: ***Tuesday, April 14th, 2015***

Location: ***Willens Wing Atrium***

(the new infill on the North Side of the Technological Institute)
Northwestern University, Evanston, IL

Cost: **Members: \$40** **Non-Members: \$45**
 Students: \$10 **Unemployed/Retired: \$15**

Click on the link to register!

<http://www.cvent.com/d/yrq1f4>

Agenda

5:00 to 5:30 PM	Poster setup
5:30 to 7:00 PM	Poster session, registration and social hour
6:00 to 7:15 PM	Dinner
7:00 to 7:15 PM	Judging wrap up and transition to lecture hall
7:15 to 7:30 PM	Section Announcements
7:30 to 8:30 PM	Technical Presentation
8:30 to 8:45 PM	Questions and Follow-Up
8:45 to 9:15 PM	Presentation of awards

Chair's Corner

From students to professionals

One of the highlights of the Midwest Regional Conference is the opportunity to talk with the high school students where one needs to think through his or her own passion for the profession and transfer that to the younger generation. During our two day meeting, I had the pleasure of sitting with 5 to 8 students on each day and try to gauge how they felt about what they experienced during the programs in the morning and provide some everyday examples of what chemical engineers do and share my own experience in making my decision making. Of course the intention is to only educate the high school students by providing some information about what a chemical engineer do and what it means to be a problem solver and at the same time avoid normal clichés. It is a great opportunity to congratulate the IIT student chapter for handling the whole process flawlessly from start to finish and the whole student outreach committee. So why it is important to encourage the best and brightest to pursue a career in the chemical industry? It is no secret that there are many areas that need better and improved processes, many that need safer operations and designs. This brings me to the other topic that I would like to bring up, safety.



Due to the nature of our industry and the consequence of an unsafe operation, this is and will be always a hot topic. Recently CSB (<http://www.csb.gov/videos>) released a new safety video which I encourage for all to watch. It describes how an otherwise simple operation has the potential to become a disaster due to a power shut down and operator error. These educational videos are possible some interesting homework assignments for our ChE students. You can also learn more about safety education through CCPS (<http://www.aiche.org/ccps>) and SACHE (<http://www.sache.org/>).

As you know, we get closer to the end of our programming season. April meeting is our student night at Northwestern University and the May meeting is the annual meeting where the new officers will be elected. I want to ask all the professors in the area to encourage their students to participate in the poster night. This is a great chance for the students to meet with the professionals and showcase your capabilities as an engineer. Our local section as part of Global AIChE is trying to pave the way for students to become future professionals.

Azita Ahmadzadeh

AICHE Chicago Chair person
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 **\$125!**

Undergraduate: 1st Place - **\$125**, 2nd Place - **\$50**

Graduate: 1st Place - **\$125**

To Enter: Submit abstract (500 words or less) by April 10, 2015 by using the form at:

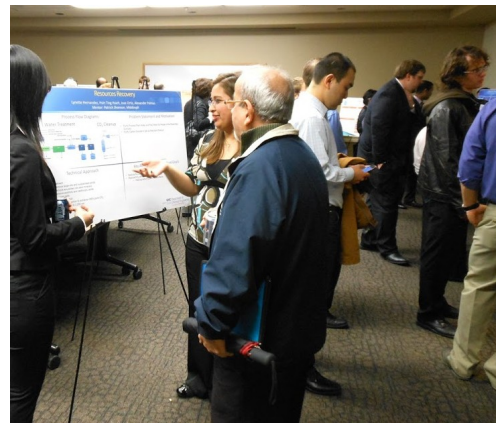
https://docs.google.com/forms/d/18-12QZyK1phPvo1KKm7MoCinYagNhmgu_vOXZXtlhuM/viewform

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 14** 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

Chemical Mechanical Planarization (CMP): An Enabling Technology for Integrated Cir- cuit (IC) Device Manufacturing

Dan McMullen



Abstract:

This presentation will take a brief look at the history of the development of IC device fabrication technology and the role of CMP in enabling the production of today's leading edge semiconductor devices. Cabot Microelectronics Corporation (CMC) is the world's leading supplier of CMP slurries to the semiconductor industry. CMC's customer base includes all of the world's leading manufacturers of advanced logic and memory chips.

Biography:

Daniel McMullen is a Director of Business Development with Cabot Microelectronics Corporation and the General Manager of its CMPC Surface Finishes business unit. Mr. McMullen was one of the founding members of the Cabot Microelectronics business when it was established as the Microelectronics Materials Division of Cabot Corporation in 1995. The division was spun-off in a 2000 IPO as Cabot Microelectronics Corporation (NASDAQ:CCMP). Mr. McMullen has been active in the semiconductor industry since the early 1990's. He received his M.S. in Chemical Engineering from Tufts University, and his M.B.A. and B.S. in Chemistry from the University of Cincinnati. Mr. McMullen is certified in Lean Tools Implementation and he is a Six Sigma Black Belt.

To Register:

<http://www.cvent.com/d/yrq1f4>

STEM Career Expo at Fermilab – Outreach Volunteers Needed

When: Wednesday, April 22nd 2015

Time: 5:00PM – 9:00PM

Where: Fermilab, Batavia, IL

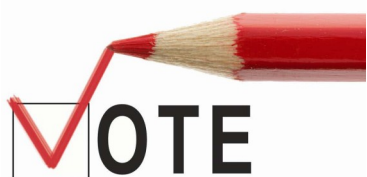
RSVP: janet.werner@sensient.com by Wed, April 15th

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 (STEM).

Join AIChE as we introduce chemical engineering career options to high schoolers! This a great event for chemical engineering outreach because many students attending this expo are already interested in STEM careers. Light dinner is provided for volunteers.

Please RSVP to Janet, janet.werner@sensient.com by Wed, April 15th.

Election Of Section Officers - Absentee Ballots



Election of officers will be held at the annual meeting on May 13. 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.

AICHe Virtual Career Fair

Looking for a Job? Register for AIChE's Online Career Fair

Spring 2015 Virtual Career Fair

April 13, 2015

12:00-4:00 EST

Special Student hour: 3:00-4:00 EST

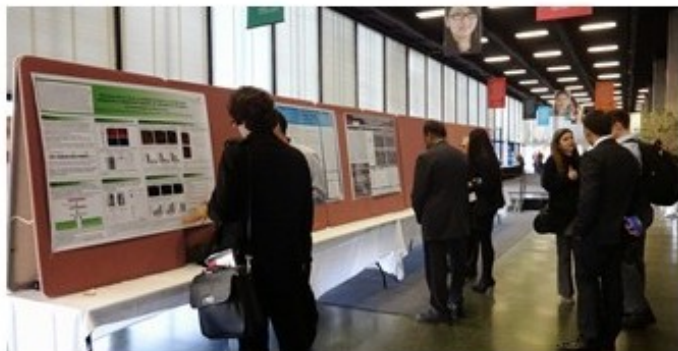
For more information and registration, visit [AIChE's Virtual Career Fair Website](#).



7th Annual AIChE Midwest Regional Conference Photos

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





THANK YOU to 2015 Midwest Regional Conference Sponsors & Exhibitors



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Upcoming AIChE Conferences, Meetings and Webinars

April

14-Apr	AIChE Chicago April Meeting and Student Poster Competition
22-Apr	<u>Overpressure Protection and the Relation to Regulations, Codes, and Standards</u>
26-Apr	<u>2015 Spring Meeting and 11th Global Congress on Process Safety</u>

May

6-May	<u>Optimizing LOPA</u>
13-May	AIChE Chicago May Meeting— Jim Szybit: Spark ignited engine efficiencies
13-May	<u>Spring 2015 Virtual Career Fair</u>
13-May	<u>Process Spray Applications and Spray Science</u>
20-May	<u>Energy, Entropy, Concepts, and Balances</u>

June

2-Jun	<u>2015 Process Development Symposium</u>
3-Jun	<u>Status of Waste Processing and Conversion Technologies in the</u>
10-Jun	<u>2015 Synthetic Biology: Engineering, Evolution & Design (SEED)</u>
25-Jun	<u>Mixer Simulations, Modeling Non-Ideal Reactors and Mixers</u>
28-Jun	<u>12th International Conference on Gas-Liquid & Gas-Liquid-Solid Reactor Engineering (GLS12)</u>

Officers and Contact Information

Chair	Azita Ahmadzadeh Azita.ad@gmail.com
Chair Elect	Adam Kanyuh Adam.kanyuh@honeywell.com
Chair Programming	Mike Toraason mtoraason@bakerrisk.com
Secretary	Jarad Champion Jarad.champion@gmail.com
Treasurer	Pat Shannon shannonph@middough.com
Newsletter Editors	Azita Ahmadzadeh azita.ad@gmail.com
	Janet Werner Janet.werner@sensient.com

Directors at Large

Dan Rusinak	Steve Wozniak Steve.wozniak@honeywell.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.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

<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.

