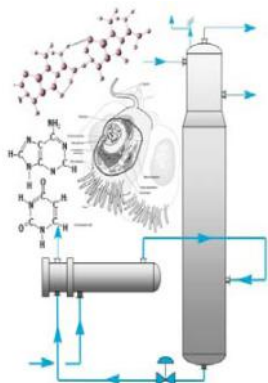


January Newsletter



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AIChE Chicago January Joint Meeting with ACS

Bioinspired Sponges Functional Metal-Organic Frameworks (MOFs)



***Dr. Omar Farha
Northwestern University***

European Crystal Banquet Center

Date ***Friday January 23rd, 2015***

Address: ***519 W. Algonquin Rd., Arlington Heights, IL
Parlor BC 847-437-5590***

Register Here: <http://www.cvent.com/d/2rqmfq/4W>

Agenda

5:30-6:30	Registration and social hour with cash bar
6:30 - 7:30	Dinner
7:30 - 7:45	Announcements
7:45 - 8:45	Technical Presentation

Chair's Corner



Happy New Year.

Ready, set, LEGO. These are the words I heard over and over again at the regional FLL competition that our team participated last December. If you recall I mentioned that I coach a team of mostly girls who are in charge of designing, building and troubleshooting LEGO® robots and I have to confess I am really excited about this program. While our season is over, we are already planning for next year challenge. What makes this program unique is that it teaches the kids not only the technical side of things but also the soft skills that are absolutely essential in any setting. Things like teamwork, communication and even friendly competition are a few of those. I really wish we can conjure up something similar with active students' participation for our profession or other aspects of engineering in general. If you have any suggestions, let's talk.

I assume that you have read through this introduction so far and are wondering or at least interested to know what that has to do with AICHE Chicago section. I should say while it is not directly related, but anywhere you look these days there is talk about STEM (Science, Technology, Engineering and Math) and its importance and how to get the younger generation interested in the subject. While the schools have started some introductory courses in the "technology" and "engineering" areas, it is more of an exception rather than a rule.

<http://www.cslnet.org/our-agenda/what-is-stem/>

Our section does a lot of student outreach which are usually geared toward older kids. The one that is coming up is part of the Midwest Regional Conference that will be at IIT this year in March. Many high school students from the area will be taking a day off from their usual schedule and will be visiting the campus for a tour of the labs and participate in the programs that are planned for them. They will have lunch with the professionals and we'll have a chance to show our passion about why they should choose a career in chemical engineering or at least in engineering. We need to let them know that there will always be problems to be solved, improvements to be made and inventions to be created and they can be part of it. Hopefully your local section can count on you with this program.

We have our annual joint meeting with ACS in January and our student night in April at Northwestern University. More information can be found elsewhere in this issue and also the website is always updated. See you at our meetings and the MRC at IIT.

One last thing: The actual local section budget is provided in this issue for you review. Please feel free to send me your questions and comments.

Azita Ahmadzadeh

AICHE Chicago Chair person

January Meeting Information

“Bioinspired Sponges: Functional Metal-Organic Frameworks (MOFs)”

Dr. Omar Farha

Abstract:

Metal–organic frameworks (MOFs) are an emerging class of solid-state materials built from metal-based nodes and organic linkers. They exhibit permanent porosity and unprecedented surface areas which can be readily tuned through coordination chemistry at the inorganic node and organic chemistry at the linkers. The high porosities and surface areas are highly attractive in the context of chemical threat filtration and decomposition as well as other catalytic processes. As exemplified by many catalytic enzyme assemblies in nature, site-isolation is a powerful strategy for performing catalytic reactions to synthesize complex molecules in an efficient way. MOFs provide an exciting platform for deploying different homogeneous catalysts as building blocks. Importantly, the catalytically active moieties in these materials can be made in a site-isolated fashion and the cavities surrounding them can be engineered to conceptually mimic enzymes. This talk will address the catalytic activity of few examples of such MOFs

Biography:

Omar K. Farha is a Research Professor of Chemistry at Northwestern University, Distinguished Adjunct Professor at King Abdulaziz University, and President of NuMat Technologies. His research accomplishments have been recognized by several awards and honors including an award established by the Northwestern University Department of Chemistry in his honor: the Omar Farha Award for Research Leadership “awarded for stewardship, cooperation and leadership in the finest pursuit of research in chemistry” and given annually to an outstanding research scientist working in the department. His current research spans diverse areas of chemistry and materials science ranging from energy to defense related challenges. Prof. Farha has been named a “Highly Cited Researcher” by Thomson Reuters. His research accomplishments have been highlighted by numerous organizations including Chemical & Engineering News, Chemistry World, Chemistry Views, Science, Nature, Nature Chemistry, Fortune Magazine, Huffington Post, Chicago Tribune, The New York Times, The Department of Energy-EERE, MSNBC, Bloomberg Business Week, WGN Radio, Chicago Sun-Time, BBC Radio and many others.



To Register:

<http://www.event.com/d/2rqmfg/4W>

The January Meeting will be held joint with ACS Chicago.

American Institute of Chemical Engineers, Chicago Local Section		
Treasurer's Budget, (By: Pat Shannon)		
Category Description	FY '13	FY '14 (partial)
INCOME		
Gifts		
Thiele Award	\$ 1,000.00	
Member Gifts		
Total Gifts	\$ 1,000.00	\$ -
Industry Sponsorships		
Monthly Meetings		
Regional Symposium	\$ 12,000.00	
TOTAL Industry Sponsorships	\$ 12,000.00	\$ -
Meeting Registration		
Total Symposium	\$ 18,853.47	
Monthly Meetings	\$ 12,328.45	\$ 3,948.79
TOTAL Meeting Registration	\$ 31,181.92	\$ 3,948.79
Other Income		
Local Dues	\$ 11,620.00	\$ 3,910.00
Project Connect		\$ 600.00
TOTAL Other Income	\$ 11,620.00	\$ 4,510.00
TOTAL INCOME	\$ 55,801.92	\$ 8,458.79
EXPENSES		
Meetings		
Board Meetings	\$ 1,768.82	\$ 698.89
Monthly Meetings	\$ 17,471.40	\$ 6,276.08
TOTAL Meetings	\$ 19,240.22	\$ 6,974.97
Conferences		
Symposia		
2013 Symposium		
2014 Midwest Regional Meeting	\$ 33,248.68	
LSLW	\$ 150.00	
TOTAL Conferences	\$ 33,398.68	\$ -
Operations		
Administration	\$ 10.00	\$ 10.00
Credit Card Transactions	\$ 2,506.01	\$ 1,052.23
Meeting Coordination	\$ 3,400.00	\$ 1,050.00
Office Services	\$ 1,106.62	\$ 1,104.00
Supplies	\$ -	\$ 35.88
TOTAL Operations	\$ 7,022.63	\$ 3,252.11
Gifts		
Thiele Award	\$ 1,000.00	\$ 1,000.00
TOTAL Gifts given	\$ 1,000.00	\$ 1,000.00
Professional Sponsorships		
Future Cities	\$ 300.00	
Awards (McComack Award, Posters)	\$ 1,050.00	
Student Outreach		
UIC, NU, IIT National Mtg. Attendance	\$ 1,006.41	
Total Student Outreach		
Young Professionals	\$ 506.40	\$ 142.23
TOTAL Professional Sponsorships	\$ 1,856.40	\$ 142.23
TOTAL EXPENSES	\$ 62,517.93	\$ 11,369.31
GAIN (LOSS)	\$ (6,716.01)	\$ (2,910.52)

Young Professionals News

Whirlyball

It's almost that time of year again YPs-- Whirlyball time! We will be hosting our 6th annual Whirlyball Social and Tournament at the Lombard location on Roosevelt Road. For those of you who don't know, Whirlyball is a hybrid between lacrosse, basketball, and bumper cars. It's lots of fun and is usually our most popular event! Be on the lookout for an invitation with more details!



Whirlyball has been our most popular event! Don't miss it! Check out <https://picasaweb.google.com/104753665897920889027/YPCWhirlyballJan2014> to see what Whirlyball is all about!

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 April 1, 2015

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

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



Ernest W. Thiele

AIChE Chicago Section Scholarship Fund

My fellow AIChE members;

Someday we shall all want to retire and enjoy the fruits of our labors. Toward that goal, we need to plan and train our replacements to follow our example. You can do that with little effort by encouraging the next generation of engineers to enter and continue their education in our field and practice chemical engineering as a professional.

For this purpose, the AIChE Chicago Section has established a Scholarship, available to currently enrolled or planning to enroll in an ABET credited college or university of their choice in a chemical engineering discipline. The scholarship is also available to the immediate family of AIChE Chicago section members.

By contributing to the principal of the Scholarship Fund, which is separate from the section operating funds, you can help us make that happen. We, as a technical society, need to continually find and encourage the talented students to become engineers and bring them into our profession. Small contributions now will pay big dividends in the future.

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

- a. funding immediate need,
- b. contributing to the endowment of the scholarship program, or
- c. both.

Students or parents affiliated with the AIChE Chicago local section (students attended a high school or attending an ABET credited college or university in the serving area and participant parents in the local section events) can apply for this scholarship. The total amount of the scholarship for each individual is a maximum of \$2000 over four (4) years of enrollment, which needs to be renewed annually.

To contribute, please make your check payable to AIChE Chicago Section Scholarship Fund, and mail it 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 contributions using a credit card.

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

Thank you in advance for your consideration and contribution.

Very truly yours,

Azita Ahmadzadeh

AIChE Chicago Section Scholarship Development Team

Scholarship Program

I. 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.

II. ELIGIBILITY

Eligibility for a scholarship is limited to persons who are:

1. 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).
2. 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.
3. High school seniors, who are applying for the scholarship, should demonstrate their interest in the chemical engineering practice and discipline.
4. Beginning or currently engaged in a course of study leading to a first degree in an ABET (or equivalent) accredited chemical engineering program.
5. The recipient of no more than (3) AIChE Chicago Section scholarship awards prior to this year's application.

III. THE AWARD

1. Each award shall be in an amount of \$2000 for those who are in a Chemical Engineering program over four (4) years.
2. The maximum number of awards to be made in any AIChE Fiscal Year (FY) shall be set by the Board of Directors (BOD) no 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.

IV. 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 for the next academic year.

V. 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 the application materials.
3. Applicants will be ranked according to selection committee evaluation criteria, which are mainly based on the applicant's credentials.

VI. NOTIFICATION

Notice of any award, or decline to award, will be sent by USPS first class mail or electronic mail to all applicants no later than May 30th.

VII. 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.
 - A. The AIChE Chicago Section Chair shall be a member, and shall appoint the Selection Committee, and preside over the Selection Committee meeting.
 - B. The Immediate Past-chair shall be a member, and serve as the Secretary of the Selection Committee.
 - C. The AIChE Chicago Section Board of Director (BOD) shall annually select, by majority vote, one section member to replace the longest serving member of the Selection Committee.
2. No member selected by the BOD shall serve more than three (3) consecutive years, except to serve an unexpired term.

VIII. 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. 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. Failure to do so may disqualify the applicant for the following years.
6. 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.
7. 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.
8. All recipients and alternates are subject to these same rules.

Attention Students and Parents!



If you are an undergraduate chemical engineering student or have a son or daughter that plans to study chemical engineering you may be interested in the Chicago sections scholarship program. Applications are due **March 1st** and more information can be found in the rules above and the application in the following pages. Please see rules for eligibility in above pages.

AICHE Chicago Local Section Scholarship Application Form

Deadline March 1



I. Requirements:

Read and follow the instructions carefully prior to submitting your application. All winners will be notified on or before the 30th of May. If selected, you will be asked for documentation to support the data you provide. Likewise, all correspondence and award agreements will be generated from the personal information submitted below. So, please use proper spelling, capitalization and punctuation.

[Link to Scholarship Rules](#)

*

Yes, I have read and understood all requirements and instructions.

II. Personal Data:

Tell us about yourself

Full Name *

First Name

Middle Name

Last Name

Birthdate: *

Month

Day

Year

Phone No. : *

<input type="text"/>	<input type="text"/>
-	Phone Number
Area Code	

E-mail : *

Where the confirmation will be send to

Home Address : *

Street Address

Street Address Line 2

<input type="text"/>	<input type="text"/>
City	State / Province
<input type="text"/>	
Postal / Zip Code	

III. Academic Information:

Tell us about your education

Status by September 2015: *

- High School Senior
- Freshman
- Sophomore
- Junior
- Senior
- Other

College/High School Name *

College/High School Address : *

Street Address

Street Address Line 2

<input type="text"/>	<input type="text"/>
City	State / Province
<input type="text"/>	
Postal / Zip Code	

Current Grade Point Average (e.g. 3.8/4.0) *

List courses taken:

0/300

IV. Why should you be considered for this scholarship?

How did you become interested in Chemical Engineering?

0/300

Honors, other scholarships or awards received, and any other details on your progress, projects, and/or plans that you would like us to know:

0/300

V. Applicant's E-Signature

By signing (typing your legal name) in the space below, you are certifying that all information is correct and that you are the person completing this application. When you press the submit button, you will receive an email confirmation that your application was received. Please print for your records and retain as verification of your application.

By pressing the Submit button, you are claiming that all information in this application is complete and correct to the best of your knowledge.

E-Signature: *

UOP,
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Com-

Submit Form

 Print Form

AICHE Chicago Local Section is committed to equal opportunity in education and does not discriminate in any program or activity on the basis of race, color, religion, gender, age, national origin, disability, marital status, or any other protected class.

For a Link to the Electronic Version of the AIChE Chicago
Scholarship Application Form,
Click on the Link Below:

<http://form.jotform.us/form/42814483647159>



AIChE[®]

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- 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

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AIChE Chicago has a new look!

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 and while you are there, let us know what you think! We know there is still work to do, and in the 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

AIChE Chicago is now on Facebook and LinkedIn!



Like us on Facebook www.facebook.com/AIChEChicagoSection



[Join our group on LinkedIn!](#)



PRELIMINARY DAILY PROGRAM:

8:30–9:15 a.m.

Engineering Student Activities Fair

Meet with current engineering student organizations

9:15–10 a.m.

Presentation on Engineering Careers

Learn about how engineers contribute to all aspects of society

10–10:45 a.m.

Demonstration Sessions

Robotics demonstration, formula hybrid race car, engineering games

10:45–11:30 a.m.

Engineering Panel Session

Learn about the day-to-day activities of practicing engineers and engineering students; time to ask your most burning questions

11:30 a.m.–12:30 p.m.

Engineering Lunch

An opportunity for one-on-one discussions with engineering professionals and students

12:30–1:30 p.m.

Keynote Speaker

Astronaut Al Sacco, the first chemical engineer in space!

1:30–2:30 p.m.

Tours of the Illinois Tech campus

Only **200** students are accepted for each day and spaces fill up fast!

Questions?
Please contact:

Ellen Kloppenborg at
Ellen.Kloppenborg@Honeywell.com
or 847.391.2792.

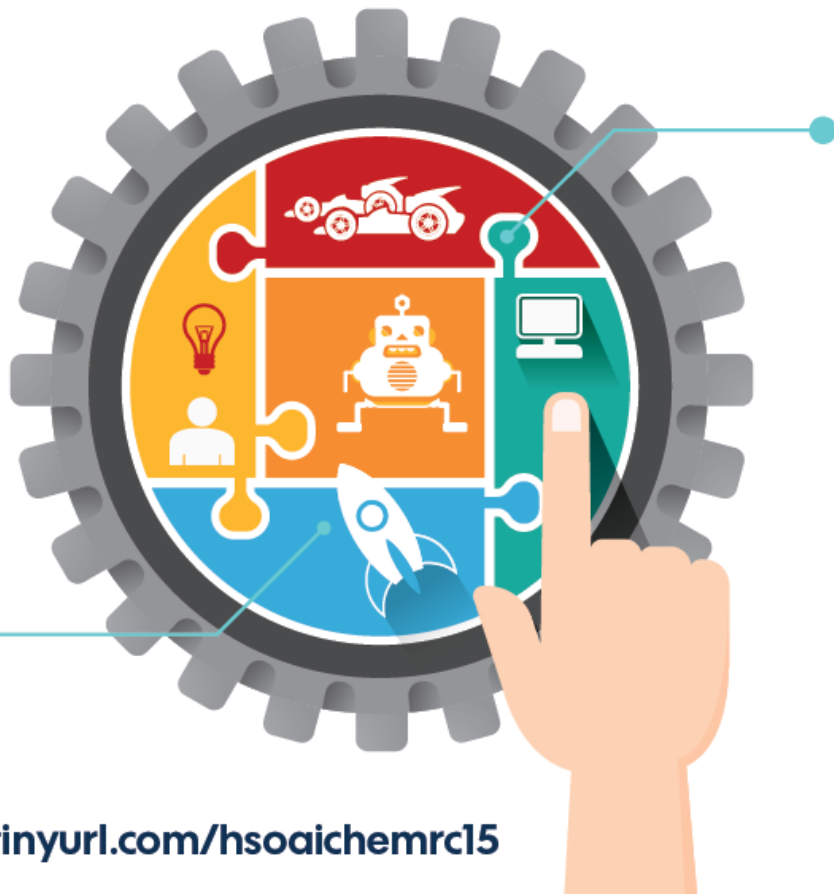
SAVE THE DATE

Engineering Career Day

March 12 or 13, 2015

Illinois Institute of Technology
Hermann Hall

Sponsored by the American Institute of Chemical Engineers and IIT Armour College of Engineering



Register online at: <http://tinyurl.com/hsoaichemrc15>

HOSTED BY



ILLINOIS INSTITUTE OF TECHNOLOGY

Upcoming AIChE Conferences and Webinars

<u>January</u>	
11-Jan	5th ICBE—International Conference on Biomolecular Engineering
<u>February</u>	
9-Feb	2015 AIChE CCPS Asia-Pacific Conference
<u>March</u>	
1-Mar	4th International Conference on Accelerating Biopharmaceutical Development
12-Mar	7th Annual AIChE Midwest Regional Conference
<u>April</u>	
26-Apr	2015 Spring Meeting and 11th Global Congress on Process Safety

Upcoming Chicago Local Section Meetings

January 23, 2015	Joint meeting with American Chemistry Society European Crystal Banquet Center 519 W. Algonquin Rd., Arlington Heights, IL
February 17, 2014	Speaker: Jatin Shah, Baker Risk: Risk Management
March 12, 2015	AIChE Midwest Regional Conference, IIT—Chicago, IL Speaker: June C. Wispelwey, AIChE Executive Director
April 14, 2015	Student Poster session, Northwestern University
May 13, 2015	Speaker: Jim Szybit; Spark ignited engine efficiencies

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
	Jesse Calderon jcalderon@bakerrisk.com
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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.

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.

