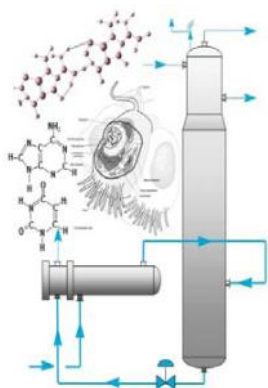


November Newsletter

Chicago Section

www.aiche.org/Chicago

November 2014



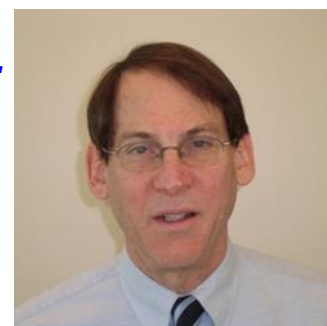
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AIChE Chicago November Meeting

“Principles and Methods of Horizontal Drilling & Hydraulic Fracturing”

Dr. Robert Kleinburg
Schlumberger



Date: ***Wednesday, November 12th, 2014***

Location: ***Tuscano's***
4926 N River Rd
Schiller Park, IL

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/04qb8v>

Agenda

5:30 - 6:30 Registration and social hour—Cash bar
6:30 - 7:30 Dinner
7:30 - 8:45 Technical presentation

Chair's Corner

Happy Birthday AIChE Chicago



As I was researching to write the chair corner of this month, I came across many interesting publications, and I would like to share some of it with you. First, let me tell you the reason that I was doing some research for this writing. As you may know, we are getting close to the anniversary of the official formation of the Chicago section. According to our own website, the National Council unanimously approved the application for a Chicago Section on December 15, 1924.

During the months of October and November of that year, many chemical engineers in the Chicago area were pursuing this, and they eventually managed to be titled the first local section of the AIChE.

This year marks the 90th anniversary of those events, and I wanted to take a look back and explore what it liked to be present during that era.

It is quite interesting to know that there were quite a bit of interesting publications related to the profession and one of them "The Chemical Engineer" was published here in Chicago. This was edited by Harry McCormack who is named the grandfather of our section.

Here is the title part of the January 1916 edition. Yes, the subscription was \$2.00 for one full year with an extra 25¢ if you lived in Canada.

January, 1916. THE CHEMICA

The CHEMICAL ENGINEER

HARRY McCORMACK, Editor.

PUBLISHED MONTHLY by the MYRON C. CLARK
PUBLISHING CO.,
608 S. Dearborn Street, Chicago

*Entered as Second Class Matter, Aug. 19, 1907, at the Post Office
at Chicago, Illinois, under Act of March 3, 1879.*

Subscription—United States, Cuba and Mexico	\$2.00
Extra postage to Canada 25c a year; to foreign countries 50c a year.	
Remittances may be made by check, draft or money order in favor of THE CHEMICAL ENGINEER	

All communications should be sent to THE CHEMICAL ENGINEER, 608
S. Dearborn Street, Chicago, Ill.

CONTENTS.

Another interesting article that I came across was published in the "Chemical Age" was about women in chemistry, where salaries of professional women are listed and analyzed. These are interesting numbers:

Salaries in State Universities and Colleges

The Bureau of Education has reported the following figures to indicate what increases in salaries of the faculties of state universities and colleges have taken place between the year 1915-1916 and the collegiate year of 1921-1922:

	Average Salary 1915-16	Average Salary 1921-22	Per Cent of Increase
Dean	\$3,062	\$4,250	38.8
Professor	2,400	3,392	41.3
Associate Professor	1,926	2,800	45.4
Assistant Professor	1,603	2,300	43.5
Instructor	1,184	1,800	52.0

The highest salary discovered as paid to a woman trained in chemistry and employed in an educational institution is \$7,000, which is received by the head of a university department of home economics. Three other teachers' salaries reported were above \$3,000; a woman full professor receives \$5,000; one associate professor \$4,500, a second, \$4,000. The following table includes the salaries submitted by 50 women teachers of chemistry in colleges and universities.

Salaries of 50 Women Teachers in Colleges and Universities

	Ass't.	Inst.	Ass't. Prof.	Assoc. Prof.	Prof.	Total
Under \$1,000 ...	2					2
\$1,001-\$1,200	2	3				5
\$1,201-\$1,500	2	5	3	1	1	12
\$1,501-\$1,800	1	2	2	3		8
\$1,801-\$2,000		3	3			6
\$2,001-\$2,500			6	1	1	8
\$2,501-\$3,000		1		2	2	5
Above \$3,000 ...				2	2	4
	7	14	14	9	6	50

Salaries of 97 Women Chemists in Industry

	Analyst	Chemist	Research Chemist	Head of a Division	Chief Chemist	Total
Under \$1,000 ...	5		1			6
\$1,001-\$1,200	11		1			12
\$1,201-\$1,500	22	4	1		1	28
\$1,501-\$1,800	11	4	7	4		26
\$1,801-\$2,000	6		4	4	2	16
\$2,001-\$2,500	1		2	2	2	7
\$2,501-\$3,000	1					1
Above \$3,000 ...				1		1
	57	8	16	11	5	97

The same journal has another interesting article about the creation of the "English Institution of Chemical Engineers" and discusses the relation between AIChE and IChemE in length. I noticed that the majority of these articles express very openly the writer's opinion; one aspect that I think is missing from the more recent journals. Here is that full article:

Institution of Chemical Engineers

The formation of the English Institution of Chemical Engineers, 14 years after the establishment of the American Institute of Chemical Engineers, organized in 1908, has followed the general lines of segregation of the latter society. The Chemical Engineering Group of the Society of Chemical Industry is an educational body and not adapted to the extension of its functions to the promotion and protection of the economic interests of the members of this hybrid profession of chemistry and mechanics.

Activity on the part of the older engineering groups in English industry in demanding recognition in a way that disregarded the interests of chemical engineers has encouraged the formation of the English prototype of our own successful American Institute of Chemical Engineers. The work of the organization committee came to a head on May 2, at Hotel Cecil, London, when at the inaugural meeting presided over by Sir Arthur Duckham, K. C. B., constitution and by-laws were adopted and the machinery of the English professional organization of chemical engineers was set in motion.

Encouragement of the growth of the English Institution and assurance of affiliation with the American Institute, were expressed in a letter by Henry Howard, president, American Institute of Chemical Engineers, which contained the following proposals:

The American Institute would print, in its Year Book, the names and addresses of all the members of the English Institution, and the English Institution on its side would print, in its Year Book, the names and addresses of the members of the American Institute. This would be of use to English and American members when visiting the United States and England respectively.

All members in good standing in the English Institution should have all the privileges of regular members of the American Institute, except voting, at the meetings of the American Institute. This would include participation in sessions at which papers are read, and visiting such industries as may be on the programme. The same privileges would, of course, be extended by the English Institution to members of the American Institute visiting England.

One copy of all bulletins and publications to be sent by the Secretary of each Institute to the Secretary of the other, who, in turn, can transmit such information as he thinks will be of interest to the members of his own organization. By this means members of each Institute will be kept posted as to the activities contemplated by the other and perhaps arrange their plans so that they can participate if they are called upon to visit England or the United States as the case may be.

The copies of the transactions of each Institute are to be available to all members of the other Institution at cost price.

American industrial chemists cannot look with indifference upon the development of economic segregation in every branch of applied chemistry save that which concerns their own immediate welfare. The precedents of English history will not be lost upon American chemists with capacity of leadership and instinct of service.

If English chemists and chemical engineers, in final recognition of the utility of a scientific, educational society functioning satisfactorily as an economic professional body in the promotion of the material interests of its members, organize respectively the Institute of Chemistry of Great Britain and the Institution of Chemical Engineers, the logical step to complete the system in America is the recognition of the American Institute of Chemistry.

C. L. Bryden, 381 Fourth Ave., New York, has been appointed eastern representative of the Chemical Equipment Co., Chicago, Ill.

I was also very amazed by the fact that some (or maybe all) of the technical news were included in the regular newspapers. For example, this is a piece in 1958 Chicago Tribune and another one from 1924.

NAME SUBURB MAN DELEGATE TO CONVENTION

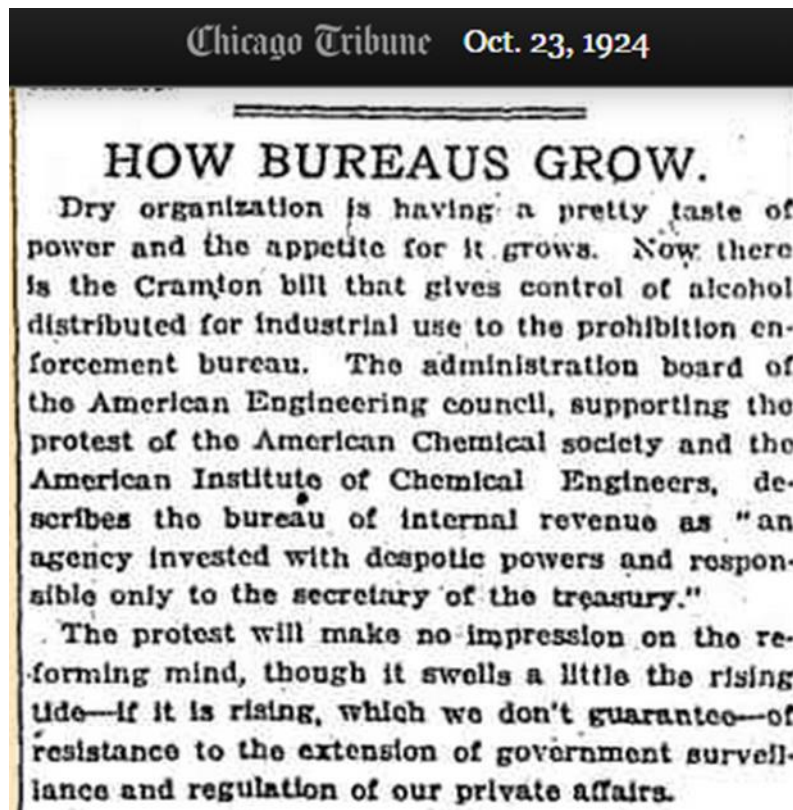
Dr. Stephen Lawroski of Naperville has been appointed an official delegate of the American Nuclear society at the American Institute of Chemical Engineers' golden jubilee meeting.

Dr. Lawroski is director of the chemical engineering division at Argonne National laboratory. He will present a

Chicago Sunday Tribune
June 22, 1958
W Part 3—Page 7

scroll of greetings to the engineers Wednesday at a special convocation to be held in Philadelphia.

The 3,000 member American Nuclear society is composed of individual scientists and engineers active in nuclear science and technology. Its headquarters recently were moved from Oak Ridge, Tenn., to Chicago.



Obviously, I was looking for an exact piece with regard to the formation of the Chicago section or some related articles but I am not disappointed. These were quite interesting to me.

We have come a very long way trying to fill very large shoes, but many of the problems of that age are trivial now and we face new challenges.

As we celebrate 90 years of local section history, we look into the future and strive to make the foundation even stronger for the future generations.

The Chicago section has reestablished the scholarship program and you can find out more about it elsewhere in this issue. I hope you also share our vision and help and encourage younger generations to feel the passion that was felt 90 years ago and sense the presence of the strong men and women who paved the way. There are more roads to be paved and more discoveries to be made and Chicago should be part of it.

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 April 1, 2015

One of the highest honors a distinguished chemical engineer can receive is our Chicago Section Thiele award. Please consider nomi-

nating 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

November Meeting Information

“Principles and Methods of Horizontal Drilling & Hydraulic Fracturing”

Dr. Robert Kleinberg



Abstract:

The energy economy of the United States has been revolutionized by the newly discovered ability to extract oil and gas from so-called “shale” rock. After a brief introduction to petroleum geology and organic geochemistry, it will be shown why the exceedingly small fluid permeability of organic-rich mudstones makes it necessary to employ horizontal drilling and massive hydraulic fracturing to produce oil and gas from them. Technical descriptions of these techniques will be followed by a discussion of the remarkable physics & chemistry of hydraulic fracturing fluids.

Biography:

Dr. Robert Kleinberg is employed by Schlumberger and is a Schlumberger Fellow, one of less than a dozen who hold this rank in a workforce of 120,000. His specialties are geophysical instrumentation and subsurface properties of unconventional fossil fuel reservoirs. Dr. Kleinberg has published more than 100 academic and professional papers and has been granted 34 U.S. patents. He was born and raised in San Francisco and was educated at the University of California, Berkeley (B.S. Chemistry) and the University of California, San Diego (Ph.D. Physics).

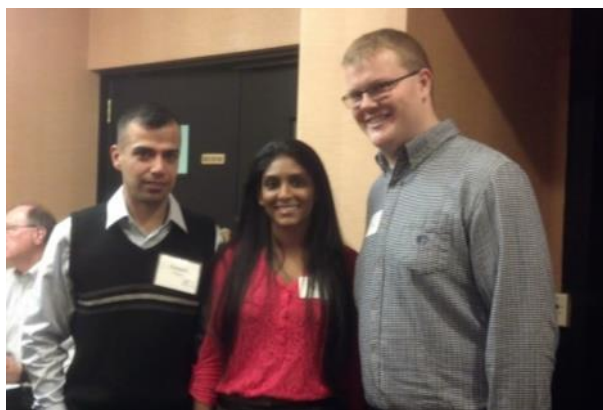
To Register:

<http://www.cvent.com/d/04qb8v>

October Meeting Summary

About 50 members attended the October monthly meeting. Attendees enjoyed the opportunity to eat Indian food for dinner with a traditional Indian dessert. Before the technical presentation, Treasurer Pat Shannon spoke about his duties and responsibilities on the AIChE Chicago Officer Board. Speaker Dr. Russel Ogle from Exponent spoke on “Calculating the Capacity of Chemical Plants”, citing case studies including nuclear waste storage.

For larger photos, visit our [Picasa web album](#) or go to our [Facebook Page](#)!



Young Professionals News

Young Professionals Panel for UIC/IIT Students

This month, we will be hosting an outreach event for the UIC and IIT AIChE chapters. The students are seeking advice on life right after college, job searching, career paths, etc., and we hope to help them by creating a panel of Young Professionals who can share their experiences and offer advice in an informal setting. Event details are listed below:

What: Young Professionals Panel for UIC/IIT Students

When: Monday, November 10th at 6:30 PM

Where: 810 S. Clinton St, Chicago, IL (parking lot is available)

RSVP: abigail.jackson11@gmail.com by November 9th

Bonus: There will be pizza!

Outreach is an important aspect of YPC, and this is a good opportunity to pull in some new members so we hope many of you can attend!

Chemistry Day Summary

On October 25, the Young Professionals Committee had seven volunteers (Luis Bougrat, Evan Dent, Fernando Franco, Nicolas Guzman, Ellen Kloppenborg, Janet Werner, and Oleg Yazvin) represent AIChE at the annual Chemistry Day event hosted by ACS. Held at the Museum of Science and Industry, Chemistry Day visitors ranged in age from first graders to high schoolers. Volunteers did a demonstration of pH to measure the acidity of sour candies in support of the theme for this year's Chemistry Day: "The Sweet Side of Chemistry – Candy."



Upcoming AIChE Conferences and Webinars

<u>November</u>	
14-Nov	2014 Annual Student Conference
16-Nov	2014 AIChE Annual Meeting
19-Nov	Sustainable Packaging Symposium SPS '14
<u>December</u>	
7-Dec	The 2nd IBN International Symposium
15-Dec	2014 Global Summit on Process Safety
<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

Upcoming Chicago Local Section Meetings

Wednesday, Nov. 12	Dr. Robert Kleinberg
<p><i>There is no monthly meeting for the month of December.</i></p> <p><i>A December social is being planned.</i></p>	

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.

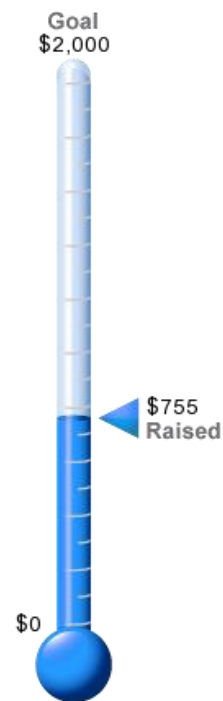
When making a contribution, please provide your name and address. The section will send a thank you letter to document your contribution to a AIChE, a nonprofit organization under the IRS code at section 501(c)3 (Tax Deductible).

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

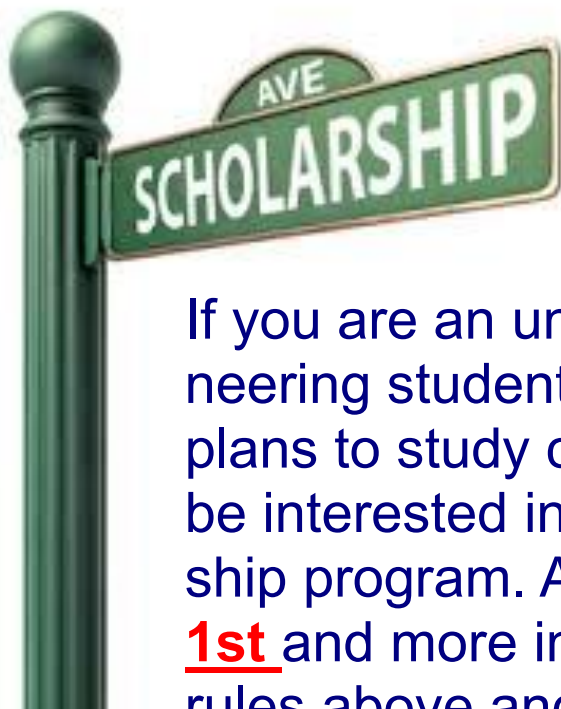
1. There shall be a Selection Committee of five members established and maintained for the purpose of evaluating applicants and determining awards to be made.
 - A. The AIChE Chicago Section Chair shall be a member, and shall appoint the Selection Committee, and preside over the Selection Committee meeting.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

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 : *

<input type="text" value="ex: myname@example.com"/>
Where the confirmation will be send to

Home Address : *

<input type="text"/>	
Street Address	
<input type="text"/>	
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 : ***

<input type="text"/>	
Street Address	
<input type="text"/>	
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:

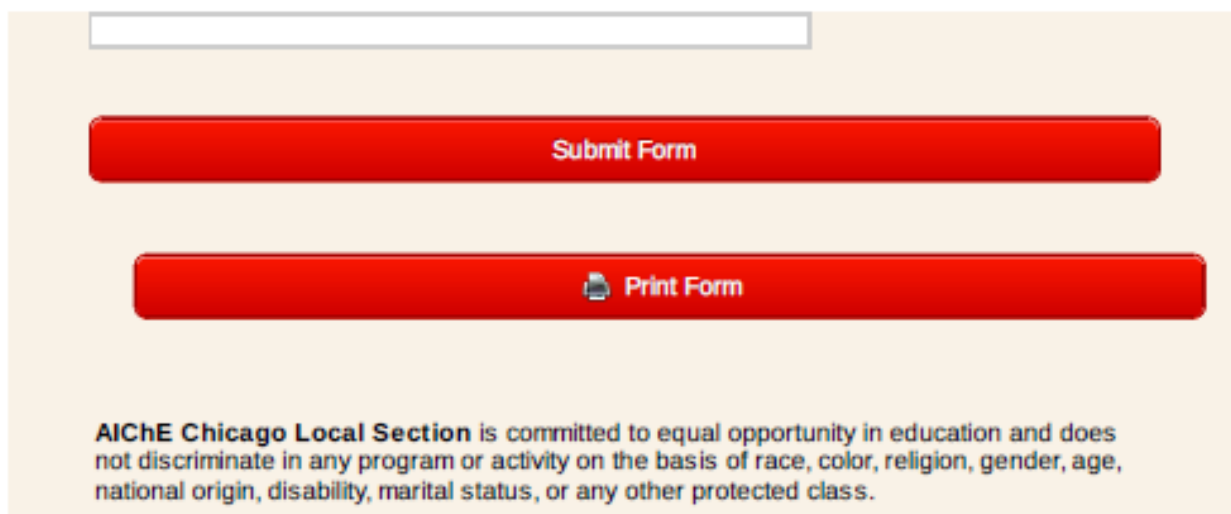
0/300

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: *



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>

CALL FOR TECHNICAL CONTRIBUTIONS



AIChE®
MIDWEST
REGIONAL
CONFERENCE

2015 AIChE Midwest Regional Conference

March 12 — March 13, 2015

Chicago, IL

Organized by Chicago Local Section of AIChE

The “Call for Technical Contributions” for the [2015 AIChE Midwest Regional Conference](http://www.aichemidwestconference.com/#!submit/c1842) is now open:

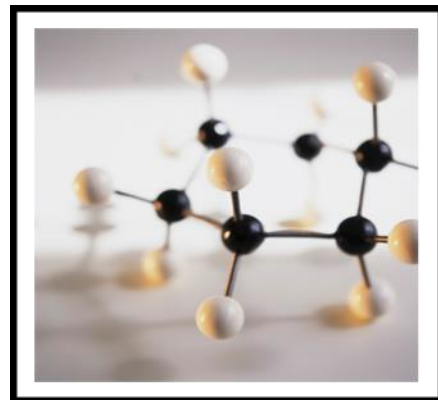
<http://www.aichemidwestconference.com/#!submit/c1842>

Contributions are sought the following areas:

- Energy and Sustainability
- Biochemical/Biomed. Engineering
- Refining & Petrochem. Processing
- ChE Education & Prof. Develop.
- Fluid Prop., Dynamics, & Trans. Phenomena
- Process Safety & Occupational Health
- Process Eng. and Optimization
- Catalysis & Reaction Engineering
- Environmental Engineering

Contributions may be in the form of:

- Contributed Presentations
- Poster Presentation



Please check the [invited speaker website](#) for updates on confirmed speakers

For questions, please feel free to contact a member of the [Meeting Program Committee](#).

AIChE Virtual Career Fair

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

Fall 2014 Virtual Career Fair
November 5
12:00-3:00 EST
Special Student hour: 3:00-4:00 EST



For more information and registration, visit [AIChE's Virtual Career Fair Web-site](http://www.aiche.org/VirtualCareerFair).

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!](#)

ALAN ZAGORIA WINS THE 2014 ERNEST W. THIELE AWARD

Congratulations to [Alan Zagoria](#), Engineering Fellow at UOP for being awarded the 2014 Ernest W. Thiele award! This prestigious award will be presented to Alan Zagoria at a meeting of the Chicago AIChE section in the coming months.

Alan Zagoria is awarded the 2014 Ernest Thiele Award for his leadership and creativity in hydrogen technology in refining and other areas. Alan Zagoria is well-known for his contributions to the practice of Chemical Engineering through his innovative implementation of methods to improve the efficiency, profitability and effectiveness of hydrogen utilization in refineries, petrochemical and gas plants, steel mills, and water treatment plants.

He is also recognized as a leader in the AIChE, particularly in his outreach to encourage high school and university students to pursue engineering careers, and in his work with Engineers Without Borders. Alan is currently an Engineering Fellow in the Optimization Services Group where he leads refinery configuration studies, utilizing LP models, financial analysis, and UOP process models to advise customers on how to maximize the profitability of refinery projects. Alan's status as UOP Fellow recognizes not only his significant technical contributions but also his role in mentoring others.

The Ernest W. Thiele award is presented annually to a Midwest region member of AIChE who has made outstanding contributions to advance the practice of Chemical Engineering. The award is sponsored by BP, and consists of a plaque and a \$1000 honorarium.

Please join us in congratulating Alan Zagoria on his achievement.

Why Renew Your AIChE Membership?

Renew your membership now to keep learning and growing.

Renew Membership



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 Educations Units and PDHs
- 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

[View COMPLETE benefits](#)

AIChE Senior Membership

If you are currently a member of AIChE, you may want to consider becoming a Senior Member. Senior Members have the privilege of holding office, voting on amendments to the Constitution, nominating and voting for officers and directors. Being a Senior Member is a prerequisite for becoming an AIChE Fellow. A member may, after regular application and election, become a Senior Member. A Senior Member who has satisfied the Fellow Bylaw requirements and has demonstrated significant accomplishments in, and contributions to, the profession may be nominated for consideration to be elected Fellow.

Senior Member FAQ

Q: What benefits are there in becoming a Senior Member?

A: Senior members may hold office in the Institute and vote on amendments to the AIChE Constitution. Four year regular members may also do this.

Q: Are dues the same or higher than for a Regular Member?

A: They are the same.

Q: Is Senior Member status at AIChE the equivalent of Chartered Member at IChemE?

A: No. Chartered Engineer is more like Professional Engineer.

Q: What is the definition of “proficient in chemical engineering”?

A: As defined by the AIChE Constitution, chemical engineering is the profession in which a knowledge of mathematics, chemistry, and other natural sciences gained by study, experience, and practice is applied with judgment to develop economic ways of using materials and energy for the benefit of mankind. To be proficient in chemical engineering a practitioner must be engaged in the profession for a sufficient period to demonstrate that he/she can apply chemical engineering skills to industrial applications and would typically have some budget authority, supervise or train other chemical engineers or those in related fields, or be responsible for approving the work of others.

Interested in Senior Membership? Complete the Senior Membership Upgrade form today!

http://www.aiche.org/sites/default/files/docs/pages/7867_SeniorMemUpgradeFormreviseFallwritable12.13.12.pdf



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:

Ross Ludwig at
rludwig1@iit.edu or 312.567.5193

SAVE THE DATE

Engineering Career Day

March 12 or 13, 2015

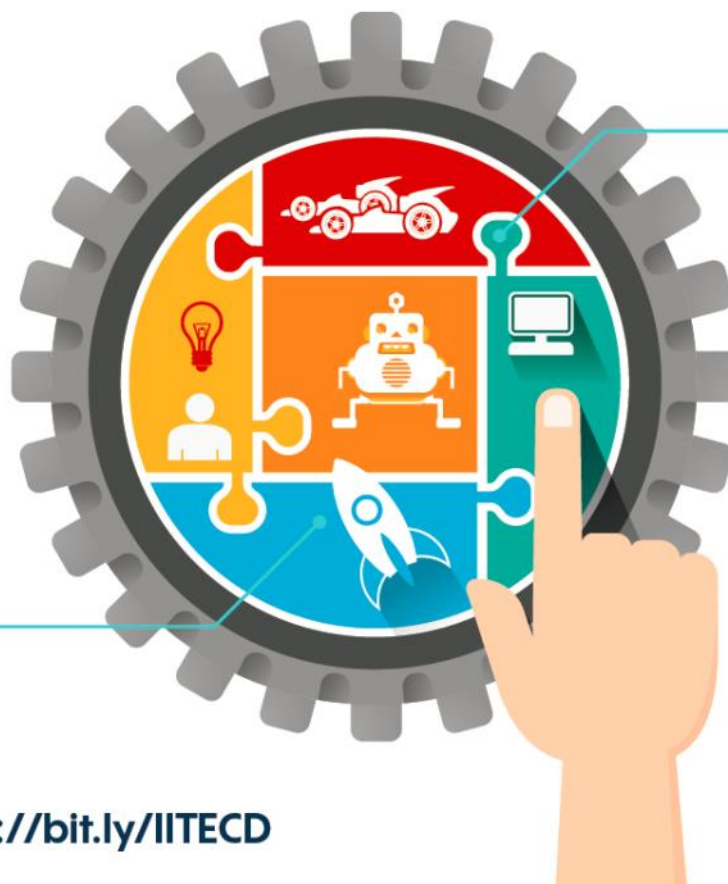
Illinois Institute of Technology
Hermann Hall

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



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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.

