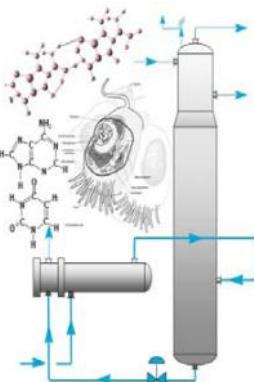


November Newsletter

Chicago Section

www.aiche.org/Chicago

November 2015



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AIChE Chicago November Meeting

A “Virtuous” Approach to Ethics in Engineering

Prof. Ed Seebauer

University of Illinois



Location: Rockwood Tap House

Date: **Wednesday, November 18, 2015**

Address: 3131 Finley Rd, Downers Grove, IL, 60515

Cost: AIChE Global and Local Section Member: \$40
AIChE Global Member Only: \$45

Non-Member: \$50

Students: \$10

Unemployed/Retired: \$15

Register Here:

<http://www.cvent.com/d/dfqipf/4W>

Agenda

5:30—6:30	Registration and social hour with cash bar
6:30 - 7:30	Dinner
7:30 - 7:45	Business meeting & announcements
7:45 - 8:45	Technical Presentation

Chair's Corner

Being able to communicate is probably one of the most important skills one can have. As a recruiter looking for new personnel for my team or to join my company, it is a skill which I highly value and look for in an individual. As an Engineer one can have a brilliant idea, but if one is not able to explain or convey their idea then that idea might be lost. I came across this article on the "10 Rules of Effective Peer to Peer Communication" by Sharlyn Lauby which I thought was very helpful in becoming an effective communicator.

1. Understand your communication style. The first rule of communication is to become self-aware and realize how you like to communicate. Are you a direct, "just the facts ma'am" communicator? Are you a story teller? Are you more systematic and logical? Is your relationship with the other person a critical aspect of the communication?

2. Reflect on how others react to your communications. Think about the last five conversations you had that didn't go well, and ask yourself the reason. Then think about the last five communications you had that went really well and the reason. Identify the common elements or trends.

3. Share the best way for others to communicate with you. Years ago I had a boss who, every time he took a personality assessment, would share a copy of the results with his team. At first, I thought it was goofy. But then I realized he was trying to tell me how to communicate with him. And that was priceless.

4. Communicate on the other person's channel. Once you know how another person wants to receive communication, it's your responsibility to communicate that way.

5. Learn how stress impacts communications. When people are under stress, they react differently. I've seen employees totally botch up conversations because they so desperately needed to get their message out, they couldn't wait for the recipient to be ready to receive it. That's what stress will do.

6. Deliver messages at the right moments. Ever work with an employee who came in early, never said hello, and immediately started working? I felt sorry for the co-worker who would saunter over with their coffee to talk about last night's game. Obviously, they didn't read the signs that the employee was trying to get something done, and it was the wrong time for conversation.

7. Use the proper tools. It's 2014 and time for all of us

to realize there are some messages you can send on Twitter, others that should be sent via email, and then those that need a voice-to-voice conversation. Using the right medium to send a message can make all the difference in the world when it comes to how your message will be received.



8. Recognize others in a way that makes them feel good. Recognizing others isn't just a task for management. You should recognize your co-workers for a job well done and when they help you do your job better.

9. Be empathetic. This applies to many of the rules above. If you take a moment to put yourself in your co-workers shoes, it can positively impact your communications with them. Whether they're happy or stressed, you can either share in their enthusiasm or not contribute to their frustration.

10. And if, after all of this, the communication gets messed up, don't let it fester. Fix it. Yes, there will be times when, no matter how hard you try, the communication will not go as planned. Instead of ignoring the situation and potentially having it get worse, have a conversation with your co-worker. Let them know that having a positive working relationship is important, and you'd like to talk it out.

So you might be asking why all of this focus on being an effective communicator, well one of my goals this year is to survey our members to determine the optimal way for the section to communicate our information. During my career, I have watched how the means of communication has changed from having to check my email on a mainframe computer terminal, to having a laptop which could download it within an hour via a dial up modem connection, to having instant access to it via my smart phone. What worked 5 years ago might not be the most successful means today. With that in mind if you click on the following link <https://www.surveymonkey.com/r/QQ7Y7LM>, there is a brief survey which I ask a few minutes of your time to take. This will help us insure that the local section is effectively communicating with our members. I will publish the results at one of our upcoming monthly meetings.

Adam Kanyuh
AIChE Chicago Section Chair
UOP – A Honeywell Company

November Meeting Information

A “Virtuous” Approach to Ethics in Engineering

Breakneck progress in many technological arenas has spawned ethical questions of unprecedented complexity, ranging from Internet privacy to global warming to stem cell research. Yet economic and social globalization has created a landscape in which there is no agreement on how to approach such questions. Most scientists and engineers have little training in ethics, and can wander into rigid legalism or bland relativism – especially early in their careers. This seminar seeks to promote thinking more clearly and professionally about ethics by cultivating a clearer sensitivity about situations that have ethical dimensions, as well as a more explicit approach to ethical reasoning and logic. The approach is based upon “virtue ethics,” which is a natural and intuitive mode of analysis that has a long tradition of used dating back to the ancient Greeks. Deciding what to do in a complex case begins with examining the consequences of each possible choice. Some of these consequences are external to you, representing concrete events that you can observe directly. Other consequences connect to your attitudes and intentions, since making any particular choice imprints your tendency to do what is right in the future. Explicit consideration of these latter consequences represents a key insight of virtue ethics: that in some respects you become what you do. Finally, all the consequences must be weighted by your assessment of their gravity and likelihood before integrating them into a final decision. Examples of this approach in typical engineering contexts will be given.

Speaker’s Bio

Edmund G. Seebauer is James W. Westwater Professor and Provost Fellow for International Academic Programs at the University of Illinois

at Urbana-Champaign, where he has served on the faculty since 1988 (including Department Head 2005-11). He is co-author (with R. L. Barry) of the textbook Fundamentals of Ethics for Scientists and Engineers (Oxford Univ. Press, New York, 2001), and has developed an undergraduate course in engineering ethics.



Seebauer received his Bachelor’s degree from the University of Illinois in 1983, and his PhD from the University of Minnesota in 1986 – both degrees in chemical engineering. He also has formal training in philosophy though a Study in a Second Discipline Fellowship for faculty at Illinois. His research focuses on defect engineering with applications in nanoscale systems and devices. He has received a Sloan Research Fellowship in Chemistry and an Inventor Recognition Award from Semiconductor Research Corporation, and is currently a Fellow of the American Institute of Chemical Engineers, the American Association for the Advancement of Science, the American Physical Society and the American Vacuum Society. He has approximately 180 journal and conference publications, and has co-authored a book on charged defects in semiconductors. He has received several awards for student teaching and advising, and has served as an IEEE Distinguished Lecturer. He has organized conference programming for several professional societies, and is currently a Director of the Materials Science and Engineering Division within AIChE. He has also served on multiple external advisory boards for chemical engineering departments.

To Register:

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

October Meeting Summary

The AIChE Chicago meeting in October 2015 took place at 77 West Wacker Drive building in downtown Chicago. At the beginning of the meeting participants enjoyed Italian cuisine. Don Chmielewski, the Programming Chair, announced “Call for Contributions” for 2016 AIChE Midwest Regional Conference in Chicago, IL on March 3-4 2016 that will be held at Illinois Institute of Technology. The invited speaker, Heath Briggs, Patent Attorney, presented an informative introduction to intellectual property which covered the importance of intellectual work protection, the legal requirements and the benefits of patents, trade secrets, copyrights and trademarks. The presentation allowed the attendees to have a better understanding of the basics of the US patent law and to ask questions about particular cases of their interest. We would like to thank everyone present during the October 2015 meeting and encourage coming to our future meetings.

By Kamil Gierszal



Volunteers Needed for MRC 2016

The AIChE Midwest Regional Conference 2016 organization is well under way. The Program now has over 90 presentations scheduled. Program Chair Don Chmielewski has extended the deadline for new submissions to Nov 13, 2015. If you have a presentation you would like to make at MRC2016, please contact Dr. Chmielewski, Chmielewski@iit.edu, or visit the MRC submissions website, www.tinyurl.com/submit2MRC2016.

We are still trying to fill a couple of Committee Chairs:

- The Facilities Committee is responsible for room arrangements and catering. This committee will coordinate closely with IIT to help ensure that we have all the resources we need for a successful meeting.
- The Hospitality Committee is tasked with coordinating amenities for speakers, session chairs and HS program participants.

If you have an interest in either of these positions, or if you want to volunteer for any other MRC committee, please contact Planning Chair Pat Shannon, shannoph@middough.com.

The MRC2016 will be held March 3-4, 2016 at IIT. Early bird registration opens Dec 1, 2015. More information is available at the conference website, www.aiche.org/chicago-midwest-regional-conference.

Chemistry Day Summary

Last October 17, a group of young professionals represented AIChE at the annual Chemistry Day organized by the Chicago section of ACS. This year's Chemistry Day was held at DePaul University, and the theme was "Chemistry Colours our World." Chemistry Day visitors ranged from elementary to high school students. The enthusiastic AIChE volunteers talked to visitors about the profession of chemical engineering and how chemical engineers help to produce a number of stains and colors used in a variety of common products. The volunteers were Jon Haughton, Matt Hoffer, and Fernando Franco. Also, you can see the event's pictures on our picasa photo album: <https://goo.gl/photos/zX5D9gtGrbz3D8KK8>

CALL FOR CONTRIBUTIONS



2016 AIChE Midwest Regional Conference
Chicago, IL – March 3-4, 2016
Hosted by Illinois Institute of Technology
Organized by Chicago Local Section of AIChE

Call for Contributions has been EXTENDED
to **Friday, November 13, 2015!**

For submission details, please visit <http://tinyurl.com/Submit2MRC2016>

Contributions encouraged in the following areas:

- Biomedical and Pharmaceutical Engineering
- Catalysis and Reaction Engineering
- Energy and Sustainability
- Environmental Engineering
- Fluid Properties, Fluid Dynamics and Transport Phenomena
- Process Engineering and Optimization
- Process Safety / Occupational Health
- Refining and Petrochemical Processing

Keynote and Plenary Speakers:

Khalil Amine Distinguished Fellow, Argonne National Laboratory	Jeffery Hubbell Institute for Molecular Engineering, University of Chicago	Christopher Burcham Senior Engineering Research Advisor, Eli Lilly and Company
Shakeel Kadri Executive Director, AIChE Center for Chemical Process Safety	Linda Broadbelt Professor and Chair, Northwestern University	Lorenz Biegler Professor and Chair, Carnegie Mellon University

For additional information on keynote and plenary speakers see
<http://www.aiche.org/chicago-midwest-regional-conference>

For submission questions? Contact
the Programming Chair at
chmielewski@iit.edu

PROFESSOR RANDY SNURR

WINS THE 2015 ERNEST W. THIELE AWARD

Congratulations to **Professor Randall (Randy) Snurr**, John G. Searle Professor of Chemical and Biological Engineering at Northwestern University for being awarded the 2015 Ernest W. Thiele award! This prestigious award will be presented to Professor Snurr at a meeting of the Chicago AIChE section in the coming months.

Professor Snurr is awarded the 2015 Ernest Thiele Award for his leadership and creativity in advancing the application of nanoporous metal-organic frameworks in gas separations, gas storage, and showing the power of molecular simulation to design new absorbents.

His research brings together two important threads in Chemical Engineering today: first, the exploding computational power available for solving technological problems that society faces and second, the increasing need for materials custom designed for specialized applications.

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 **Professor Randy Snurr** on his achievement.

Ernest W. Thiele Award Recipients

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
1983	E.W. Thiele	Standard Oil (Indiana)	Catalysis, Distillation fundamental advances
1985	B.B. Broughton	UOP	Aromatics Separation Processes, adsorptive separation
1986	T.J. Hanratty	Univ. of Illinois	Advances in Fluid Mechanics
1987	G. Thodos	Northwestern	Physical Property Advances
1988	L.O. Stine	UOP	Petroleum/Petrochemical Processes
1989	D.T. Wasan	IIT	Research and Progress on Separation Processes
1990	R.S. Mah	Northwestern	Chemical Process System Analysis
1992	J.J. Carberry	Notre Dame	Chemical Reaction Engineering research, innovation, and education
1993	R.J. Bertolacini	Amoco	Catalysis research innovations and leadership
1994	J.W. Westwater	Univ. of Illinois	Research in Heat transfer and contributions in teaching

Ernest W. Thiele Award Recipients (continued)

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
1995	Norman Li	UOP	Pioneering research in membranes and separations
1996	Rathin Datta	Argonne	Original research in metabolic engineering & membranes
1997	Hamid Arastoopour	IIT	Academic leadership and environmental engineering
1998	Arvind Varma	Notre Dame	Fundamental advances in synthesis of materials, catalysis and reactor stability
1999	S. George Bankoff	Northwestern	Heat transfer advances in chemical & nuclear engineering
2000	Henry Linden	IGT (retired)	Leadership of the Institute Of Gas Tech.
2001	Paul Sechrist	UOP	Contributions to computational fluid Mechanics, CCR, and FCC refining processes
2002	Julio Ottino	Northwestern	Research in Chaos Theory and mixing of solids & liquids
2003	Ali Cinar	IIT	Contributions in process modeling, monitoring and control. As an educator championing computers and statistics.
2004	Ted M. Knowlton	PSRI	For his contributions to fundamental and applied research, and his leadership in the fields of fluidization and particulate solids.
2005	Dimitri Gidaspow	IIT	For his fundamental contributions to computational fluid dynamics, multi-phase flow and fluidized bed systems and as an educator.
2007	Lynn H. Rice	UOP	For his fundamental contributions to the petroleum refining isomerization process.
2008	Robert Lyczkowski	Argonne	For Innovative application of multiphase theory
2009	Harold Kung	Northwestern	For contributions to understanding catalytic phenomena, design of catalytic structures, and teaching.
2010	J. Peter Clark	Consultant	For leading the development of numerous food products and new food preparation processes, and as a mentor and teacher.
2011	Urmila Diwekar	IIT and V. Institute	For leading the development of uncertainty analysis in processes.
2012	Richard Hoehn	UOP	For leadership and creativity in Hydroprocessing technology
2014	Alan Zagoria	UOP	For leadership and innovation in hydrogen utilization in refining
2015	Randy Snurr	Northwestern	For advancing nanoporous metal-organic frameworks for gas storage and absorption

AIChE Chicago Communication Survey



Take 5 minutes and help us understand how you want to receive information!

<https://www.surveymonkey.com/r/QQ7Y7LM>

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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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Visit our website!

Be sure to check out our website to make sure you have the latest information on meetings and events! Miss a meeting? You can even find old newsletters and past events!

If you want to help us improve our website, please give us feedback, or even better, volunteer to help us with the website!



Thank you for being part of AIChE Chicago!

www.aiche.org/Chicago

Upcoming AIChE Conferences, Meetings and Webinars

Chicago Section Monthly Meeting

November 18, 2015	<u>Downers Grove, IL</u>
March 3-4, 2016	<u>8th Midwest Regional Conference, IIT, Chicago</u>

AIChE Conferences

November 8-13, 2015	<u>2015 AIChE Annual Meeting, Salt Lake City, UT</u>
November 16-17, 2015	<u>Water Efficiency in Downstream Refinery, Petrochemical and Chemical Processing, Sugar Land, TX</u>
November 17-19, 2015	<u>Carbon Management Technology Conference 2015 , Sugar Land, TX</u>
January 5-7, 2016	<u>International Conference of Biomolecular Engineering IC-BE , Singapore</u>
February 29-March 2, 2016	<u>FDA-AIChE Workshop on Adopting Continuous Manufacturing, Bethesda, MD</u>

AIChE Webinars

November 18, 2015	<u>Economics of Waste Management in the U.S.</u>
December 3, 2015	<u>Spreadsheet Techniques and Problem-Solving for Chemical Engineers</u>
December 9, 2015	<u>Introduction to Surfactants</u>

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We are on the web
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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>

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