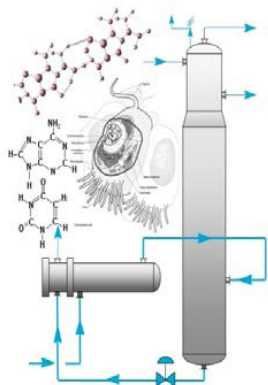


January Newsletter

Chicago Section

www.aiche-chicago.org

January 2013



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AIChE Chicago January 2013 Meeting Notice

Joint meeting with ACS & ChemPharma

Dr. Joseph A. Kocal

*Corporate Fellow,
Performance Materials and Applications
Honeywell-UOP*



Date: **Thursday, January 17, 2013**

Location: **European Crystal Banquet Center**

519 W. Algonquin Road, Arlington Heights, IL
Parlor BC [\(847\) 437-5590](tel:8474375590)

Cost: **Members: \$35** **Non-Members: \$37**

Students: \$5 **Unemployed Members: \$20**

To Register Click the Link;

<http://www.cvent.com/d/kcq43w/4W>

Agenda

ACS Job Club	5:00—6:00 pm
Pre-dinner talk	5:30—6:15 pm
Reception	5:30—6:30 pm
Dinner	6:30—7:30 pm
General Meeting	7:30 pm

Chair's Corner

It's only been about a week since the 2012 punch bowl (proverbial and literal) has emptied, and yet here we are with a new one for 2013 that is already filled and ready for a taste. There are a number of significant upcoming dates rapidly approaching that you should put on your calendar, if they are not already there.

The January AIChE meeting, jointly held with the American Chemistry Society (ACS) and ChemPharma, on the evening of January 17th. The topic will be updates on Ionic Liquids, whose properties offer advancements in the areas of solvents, thermal storage, heat transfers and electrolytes, with a wide range of practical applications. Dr. Joseph Kocal of Honeywell-UOP will discuss the state of the technology since its rapid escalation 15 years ago. For more information on location, cost and registration please refer to the meeting notice on this newsletter.

Our Fifth Annual AIChE Midwest Regional Conference (MRC) will be held at the Illinois Institute of Technology (IIT) on January 31 – February 1. Our keynote speakers include Dr. Peter Stair of Northwestern University, Dr. Catherine O'Connor of the Metropolitan Water Reclamation District of Greater Chicago, and Dr. Jack Lewnard of the Gas Technology Institute. There will be a wide range of sessions, which you can read about it on this newsletter. Our student outreach program will also be presented during the MRC. This is a wonderful way for high school students to appreciate technology in a way other than texting or downloading ring tones to their cell phones. And with some luck, this session will convert some kids into future engineering students.

But wait! There's more! I know many of you are considering traveling to San Antonio for the 2013 Spring AIChE Meeting, held between April 28th and May 2nd. This is the crown jewel of technical conferences for our organization.

And I haven't even begun to discuss our other monthly events planned in 2013.... For those you'll just need to check out the revamped www.aiche-chicago.org website, or follow us on Facebook or LinkedIn. We hope to see you at one of the many upcoming events!



Peter Herena

Chair Elect

RICHARD HOEHN WINS THE 2012 ERNEST W. THIELE AWARD

Congratulations to **Richard (Dick) Hoehn**, Senior Engineering Fellow at UOP for being awarded the 2012 Ernest W. Thiele award!

This prestigious award will be presented to Dick Hoehn at the March 13, 2013 meeting of the Chicago AIChE section at the March meeting location at Abbott Laboratories.

Dick Hoehn is awarded the 2012 Ernest Thiele Award for his leadership and creativity in hydroprocessing technology. His contributions have resulted in improving the yields, efficiency, safety and reliability of this critical process for clean fuels. He is also presented this award for his years of mentoring and training that have resulted in better-trained design engineers and ultimately better processes for hydroprocessing.

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 Dick Hoehn on his achievement.

January Meeting Information

“Ionic Liquids: Status After 15 Years of R&D”

Abstract:

Ionic liquids (ILs) are ionic compounds which are liquid below 100 °C (by definition). Many are liquids at room temperature (RTILs). These novel materials are composed of a bulky organic cation and a smaller anion. The size mismatch leads to the low melting points relative to typical ionic compounds such as NaCl. ILs have experienced a comet-like boost in the last 15 years because of their attractive properties such as, low vapor pressure, good solvency, high ionic conductivity, and heat transfer properties. The properties are adjustable by via compositional variation. Considerable R&D has been conducted using ILs as catalysts, electrolytes, heat transfer media, green solvents, gas absorbents, and solvent extractants. In the laboratory ILs have shown promise for many applications, however, only a few demonstration and commercial applications are known today. The development of ILs will be discussed including possible reasons why more applications have not been commercialized.

Speaker's Bio

Dr. Kocal joined UOP in 1981 after earning a Ph.D. in inorganic chemistry from the University of Wisconsin. Dr. Kocal has developed catalyst and process technology in the areas of fuels and chemicals which has led to 52

patents and numerous publications. **Dr. Kocal** has been principal investigator on teams leading to the commercialization of numerous processes including production of detergents via alkylation of benzene with n-C₁₀ to n-C₁₄ olefins using a heterogeneous catalyst to replace hazardous HF acid. A different heterogeneous catalyst was developed for isoparaffin alkylation with light olefins for motor fuel gasoline.



Dr. Kocal was technical leader of UOP's exploratory research group of which a key objective was to develop economical technology for conversion of natural gas to chemicals and fuels. Dr. Kocal was principal author and PI of the 3 year ATP-NIST funded program for conversion of methane to methanol. More recently Dr. Kocal has worked with a team to develop technology for the utilization of renewable resources. He was principal author and PI of several DARPA and DOE programs for the conversion of biomass to fuels. Currently Dr. Kocal is scouting potential new technologies to be implemented within Honeywell.

To Register Click the Link;

<http://www.cvent.com/d/kcq43w/4W>

NOMINATIONS REQUESTED FOR THE ERNEST W. THIELE AWARD

The Ernest W. Thiele award is sponsored by BP and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This internationally recognized award consists of an engraved plaque and \$1000 honorarium presented at our sectional meeting.

Nomination forms and additional information can be obtained from the Thiele Committee Chair. Completed nominations are due to the committee chair no later than March 1, 2013.

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



AIChE Young Professionals Social

Rocky's Chicago

Friday, February 1st at 6PM

Soft Drinks and Appetizers

Courtesy of AIChE Chicago

Come and join your fellow YPs in celebrating a successful conference by relaxing at Rocky's. If you weren't able to make it to the conference, feel free to join us at the social!



Ernest W. Theile Award Recipients

YEAR	RECIPIENT	AFFILIATION	RECOGNITION & ACHIEVEMENT
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
1995	Norman Li	UOP	Pioneering research in membranes and separations
1996	Rathin Datta	Argonne	Original research in metabolic engineering and 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 and nuclear engineering
2000	Henry Linden	IGT (retired)	Leadership of the Institute Of Gas Tech.
2001	Paul Sechrist	UOP	Contributions to computational fluid Mechanics, CCR, FCC refining processes

Ernest W. Theile Award Recipients

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
2002	Julio Ottino	Northwestern	Research in Chaos Theory and mixing of solids and 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 and computational fluid dynamics in the areas of nuclear, fossil and biochemical engineering.
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 Hydro processing technology

Historical Engineering Events in January

January 1, 1853 – The world's first practical steam-powered fire engine made its debut.

In the spring of 1852, Abel Shawk, Alexander Bonner Latta, and Miles Greenwood began construction on the first practical steam-powered fire engine. While other fire engines had existed, theirs was significantly faster, being able to pump water in a mere ten minutes. Once finished they presented their engine to Cincinnati Fire Department on January 1st, 1853 (their own city). This engine was nicknamed name 'Uncle Joe Ross' and with the success of this and other steam powered fire engines, the City of Cincinnati went on to create the first professional fire department in the United States.

January 2, 1959 – the first lunar space ship shot to escape the Earth's gravitational pull. The unmanned Luna I was launched by the Soviet Union less than two years after their launch of Sputnik, the Earth's first artificial satellite. Luna 1 passed to within 4,600 miles of the moon before moving on to a solar orbit.

January 3, 1957 – The world's first electric wristwatch is released. The Hamilton watch company began research on an electric watch in 1946. Ten years later they released their watch with great success. Prior to this watch most watches kept time using a balance wheel that was kept in motion using a spring. This spring had to be wound by the wearer everyday. The Hamilton watch, while using the same balance wheel, used electromagnets to keep it in motion. One of the biggest challenges was finding a battery that was powerful enough to power the watch for a year, but also be small enough to fit inside the watch case.

January 5, 1892 – Construction began on the Golden Gate Bridge. After years of gathering support and funding for the bridge, Joseph Strauss oversaw its construction. The project was so massive that a Golden Gate District

was formed to build the bridge. All in all the bridge ended up costing about 27 million dollars.

January 6, 1851 – Foucault physically demonstrates the rotation of the Earth.

January 7, 1913 – William Merriam Burton is awarded the patent for thermal cracking. Cracking is a process where organic molecules are broken down into simpler molecules by breaking carbon-carbon bonds. This process is used to breakdown crude oil into one of its many products.

January 8, 1889 – Hollerith patents tabulating machine. Herman Hollerith is widely regarded as the father of modern automatic computation. He chose the punched card as the basis for storing and processing information and he built the first punched-card tabulating and sorting machines as well as the first key punch, and he founded the company that was to become IBM.

January 09, 1839 – Louis Daguerre announces his photographic process.

The first permanent photograph was made in 1826 by Joseph Niepce. Together with Louis Daguerre they further refined the process. The process involved silver-coated copper plates mixed with iodine to create a layer of silver iodine. After being exposed to light for several minutes the plate was exposed to mercury vapor and heated to 75 degrees Celsius.

January 11, 1954 – Although radio weather broadcasts have been around since 1922, it was not until 1953 that BBC executives, gathered for a luncheon, introduced the idea of presenting a weather forecast on television. These BBC executives searched the Met Office and chose the 32-year-old George Cowling, a former Royal Air Force meteorologist, to take on this new idea. Cowling delivered the first televised weather forecast on January 11th, 1954 at 7:55 PM from BBC's Lime Grove Studios.

January 12, 2010 – 7.0 Magnitude Earthquake in Haiti. The earthquake struck a highly populated region of this impoverished Caribbean island approximately 17 km from the capital city of Port-au-Prince. Hundreds of thousands died, many more injured, many buildings were destroyed or seriously damaged, infrastructures collapsed and millions became homeless and without food.

January 13, 1942 – Henry Ford patents a plastic automobile.

The plastic car Ford patented used soy-based plastics and was 25% to 33% lighter than conventional cars of his day. Ford's dream was to use agricultural-based plastics to provide another market for farmers to sell their crops.

January 14, 2005 – Huygens Probe Lands on Titan.

After spending seven years in space, the Huygens probe separated from the main Cassini spacecraft on December 24, 2004, and spent the next three weeks traveling to the moon Titan. After beginning its descent, it transmitted scientific data for nearly five hours before running out of power. The Huygens probe was named after the Dutch astronomer Christiaan Huygens. He is credited with the discovery of Titan and thus it was deemed fitting to name the probe after him.

January 15, 1955 – first solar-heated and radiation-cooled house in the United States. Respect for the powers of the sun has been a critical part of building design since humans first built shelters for protection from the environment.

January 17, 1871 - U.S. patent issued for an "endless wire rope way" cable car (No.110,971). The inventor of the cable car was Andrew S. Hallidie (center image above) and contracted by the Clay Street Hill Railroad Company in San Francisco.

January 20, 1986 – First federal holiday honoring Martin Luther King. Through fifteen years of the persistent efforts of Congress Members John Conyers (Michigan), Shirley Chisholm (New York) and an army of other supports, Martin Luther King Day legislation was passed in 1983. A number of changes were required for it to be acceptable as a federal holiday. The date was changed to the third Monday in January, rather than his birthday of January 15, so as to distance it from Christmas and New Years. Several states resisted celebrating the holiday for various reasons. Several southern states included celebrations for various Confederate generals on that day. Arizona voters didn't approve the holiday until 1992 after pressure from a tourist boycott. Only recently in 2000 was it first officially observed in all 50 states.

January 23, 1996 – The first version of the Java programming language is released. Java was developed independently of the Web, starting in 1991 with a small group of Sun engineers called the "Green Team". Their vision was that the next wave in computing was the union of digital consumer devices and computers. James Gosling led the team and worked around the clock to release this first version originally called *Oak*.

January 24, 1984 – Apple Computer unveils the Macintosh personal computer. Apple introduced "the Mac" through its famous "1984" television commercial that was played at the 1984 Super Bowl.

January 26, 1697- Isaac Newton solves Bernoulli's brachistochrone problem, inventing the "calculus of variations". The story goes that Jean Bernoulli gave Isaac Newton a challenge solve the following problem in six months:

We are given two fixed points in a vertical plane. A particle starts from rest at one of the points and travels to the other under its own weight. Find the path that the particle must follow in order to reach its destination in the briefest time.

Rather than take 6 months, Newton is reported to have solved the problem the next day.

January 26, 1926 – Scottish Engineer John Baird gives first public demonstration of television in London. According to BBC News, his first prototype in 1924 was crudely made of a washstand, a tea chest and a project lamp in a biscuit tin, scanning disks made from cardboard and lenses, all held together with scrap wood, darning needles, strings and sealing wax.

January 28, 1986 – Space Shuttle Challenger explodes after launch, killing the entire crew.

American's stared in shock at their televisions watching the Challenger accident in full motion video.

January 31, 1958 – Explorer 1 became the United States of America's first satellite to orbit the Earth after it was launched on January 31, 1958. After the Soviet Union's successful launch of Sputnik I on October 4, 1957, the United States of America embarked upon a program to launch its own artificial satellite. The first American attempt to launch a satellite using a Vanguard 1 rocket occurred in December 1957 and failed miserably.

Upcoming Meetings

4th ICBE—International Conference on Biomolecular Engineering

Hyatt Regency Pier 66
Ft Lauderdale, FL

January 13—16, 2013

Joint ACS and AIChE Meeting

European Crystal Banquet and Conference Center
Arlington Heights, IL

January 17, 2013

5th Annual Midwest Regional Conference

Illinois Institute of Technology
Chicago, IL

January 31—Feb 1, 2013

SBE's 3rd International Conference on Accelerating Biopharmaceutical Development

Coronado Island Marriott
Coronado Island, CA

February 24-27, 2013

AIChE Chicago Local Section Meeting

"Social Outing" at Pin Stripes, Oak Brook, IL

February 23rd, 2013

AIChE Chicago Local Section Meeting

Abbott

March 13, 2013

Job Opportunity

BSI Engineering is a full service engineering firm in search of a **PROJECT ENGINEER / PROJECT MANAGER** for our Chicago office.

BSI Engineering Background

BSI Engineering provides engineering & design services to clients in the steel, chemical, pharmaceutical and renewable fuels (Corn to Ethanol, Cellulose to Ethanol, Biodiesel) industries. We have compiled an experienced staff of engineering professionals who can perform Feasibility Studies, Process & Utilities systems' evaluations, Conceptual, Preliminary & Detailed designs for project ranging from \$10K to very large projects (\$100 million total installed cost) for more than 100 different industrial clients in the U.S. and Canada. Our corporate headquarters is in Cincinnati, Ohio with a satellite office in Chicago.

Each employee has been hired based on a demonstrated ability to provide exceptional service to our customers. Company profit sharing programs, ownership model and management systems have all been designed to support and reward employees who place our clients first; recognizing employee satisfaction will be the end result.

Project Manager/Project Engineer Job Overview:

The project manager is an experienced project leader and is accountable for overall project implementation activities. The project manager is passionate, high energy, and results oriented with a creative and analytical mind and is experienced with advanced PM tools and processes, and has the ability to manage critical situations.

- Project management experience in coordination of all aspects of a project including client relations, developing project budgets and scopes of work, schedule development and leading a project team.
- Experience in leading and coordinating all phases of project development.
- Integrate into client environment in order to effectively lead project team while also building positive professional relationships with clients and associates.
- Define the objective, requirements, and assumptions necessary to structure a project or activity.
- Plan, schedule, and control activities to fulfill identified objectives applying technical, theoretical, and managerial skills to satisfy project requirements.
- Establish and maintain a high performing team and serve as a project advocate within the or-

ganization.

- Lead (coordinate, facilitate, and motivate) the efforts of the individual, team, client, and other resources associated with project activity. Ensure alignment on project goals and deliverables.
- Manage projects within the established scope, schedule, and budget while meeting or surpassing standards of quality.
- Lead risk management within the project team. Ensure risks have appropriate mitigation and contingency plans.
- Facilitate and lead effective meetings. Ensure appropriate agendas that enable key discussions and decisions within the team. Prepare meeting minutes and follow up on action items.

Requirements

Required Experience and Training:

- Bachelor's degree or higher in an engineering discipline (**Chemical Engineering degree preferred**)
- 10-15 years of industry experience

Knowledge and application of a disciplined project management process (PMP certifications are a plus).

Required Skills and Knowledge:

- Exceptional interpersonal and leadership skills.
- Technical aptitude and displayed ability to grasp a general knowledge of multiple disciplines and technologies.
- Strong competencies in planning, project management, leadership, and organization.
- Ability to produce and present clear, concise, and professionally written communications and presentations.
- Strong analytical capabilities
- Ability to lead and facilitate multiple activities and resources.
- Demonstrated work ethic, integrity, and professional conduct.

Contact Sharon Bates
Human Resources Manager
BSI Engineering, Inc.
sbates@bsiengr.com



5th Annual Midwest Regional Conference

Jan 31st—Feb 1st, 2013

Illinois Institute of Technology Chicago, IL

Featuring...

Keynote Speakers:

Dr. Peter C. Stair, *Northwestern University*

Dr. Catherine O'Connor, *Metropolitan Water Reclamation District of Greater Chicago*

Dr. Jack Lewnard, *Gas Technology Institute*

Technical Sessions including:

- Advances in Gas Treating
- Fuel Cell Technologies
- Advances in Process Equipment
- Refinery Processing of the New Shale Oils and Tight Oils
- Emerging Technologies in Oil and Gas
- Renewables Research
- Advances in Biological Engineering
- Air and Water Pollution Controls for Fossil Power Plants
- Applications of Chemical Engineering in Food Safety
- Sustainable Fuel Processing
- Characterization Methods for Immunoassay Diagnostic Tests



...Plus Young Professionals workshops and social!

For more info and Registration, visit:

<http://www.aiche.org/conferences/midwest-regional-conference/2013>

5th Annual AIChE Midwest Regional Conference

January 31st – February 1st, 2013

Organized by the Chicago Local Section of the AIChE

Hosted by the Illinois Institute of Technology, Chicago, IL

Program at a Glance

Thursday January 31, 2013

7:30am - 8:30am	Continental Breakfast
8:30am - 9:30am	Atomic Layer Deposition: A Powerful Tool for Catalyst Synthesis (Ballroom) Peter C. Stair, Professor and Chair, Department of Chemistry and Director, Center for Catalysis and Surface Science, Northwestern University
10:00am - 11:30am	Technical Sessions Advances in Gas Treating (Armour Dinning) Fuel Cell Technologies (Room 007) New, Sustainable Routes to Chemicals and Fuels (Trustee Room) Teaching the Chemical Engineering Capstone Design Course (Room 005) Resume Workshop (Armour Conference Room)
11:30am - 1:30pm	Lunch with HS Outreach Participants (Ballroom and Gallery Lounge)
1:00pm - 2:30pm	Technical Sessions Advances in Process Equipment (Armour Dinning) Nanotechnology (Room 007) Refinery Processing of Shale and Tight Oils (Trustee Room) Business Issues for Engineers (Room 005) New Graduate Engineer Training Practices (Room 006)
2:30pm - 3:00pm	Networking Break
3:00pm - 4:30pm	Technical Session Fluidization and Fluid-Particle Systems (Armour Dining) Agent-based Systems in Chemical Engineering Applications (Room 007) Biochemical Innovation and Commercialization (Trustee Room) Career Path Development (Room 006)
4:30pm - 6:00pm	Poster Session (Expo Room)
6:00pm - 7:00pm	Buffet Dinner (Ballroom)
7:00pm - 8:00pm	Chicago: A River Runs Through It (Ballroom) Catherine O'Connor, Director of Engineering Metropolitan Water Reclamation District of Greater Chicago

For registration please visit: <http://www.aiche.org/conferences/midwest-regional-conference/2013>

5th Annual AIChE Midwest Regional Conference
January 31st – February 1st, 2013
Organized by the Chicago Local Section of the AIChE
Hosted by the Illinois Institute of Technology, Chicago, IL

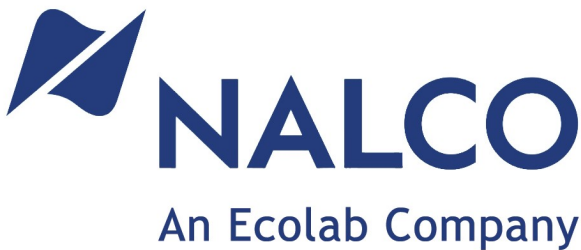
Program at a Glance

Friday February 1, 2013

7:30am - 8:30am	Continental Breakfast
8:30am - 9:30am	TBD (Ballroom) Dr. Jack Lewnard, Chief Technology Officer Gas Technology Institute
10:00am - 11:30am	Technical Sessions Renewables Research (Armour Dinning) Air & Water Pollutions Controls for Fossil Power Plants (Room 007) Characterization Methods for Immunoassay Diagnostic Tests (Trustee Room) Biological Water and Wastewater Treatment (Room 005) Interviewing Skills Workshop (Armour Conference Room)
11:30am - 1:30pm	Lunch with HS Outreach Participants (Ballroom and Gallery Lounge)
1:00pm - 2:30pm	Technical Sessions Sustainable Fuel Processing (Armour Dinning) Smart and Intense Chemical Processes (Room 007) Process Safety (Trustee Room) Engineering Extracellular Matrices (Room 005) Unwritten Laws of Engineering (Room 006)
2:30pm - 3:00pm	Networking Break
3:00pm - 4:30pm	Technical Session Emerging Technologies in the Oil and Gas Industry (Armour Dinning) Emerging Technologies in Power Generation (Room 007) Applications of Chemical Engineering in Food Safety (Trustee Room) Advances in Biological Engineering (Room 005) Career Path Development (Room 006) MRC 2014 Planning Session (Armour Conference Room)
6:00pm-8:00pm	Young Professional Networking Social (<i>Off-site</i>) Rocky's Bar & Grill 234 West 31st Street, Chicago, IL 60616 (312-842-9200)

For registration please visit: <http://www.aiche.org/conferences/midwest-regional-conference/2013>

Thank you to our Midwest Regional Conference sponsors, for their generous and continuous support.





[WANGER INSTITUTE FOR SUSTAINABLE ENERGY RESEARCH]
AT ILLINOIS INSTITUTE OF TECHNOLOGY



Energy & Chemicals



Delta Consulting Group LLC



Chicago Chem Consultants



HIGH SCHOOL OUTREACH PROGRAM

AIChE 5th Annual Midwest Regional Conference
 Thursday January 31st - Friday February 1st, 2013 | Chicago, IL

January 31–February 1, 2013



5th Annual

Midwest Regional Conference

**Connecting
to a
Sustainable Future**

Scientific Research Professional Practice

Student Outreach





This **FREE** high school outreach program is presented in parallel with the American Institute of Chemical Engineers' (AIChE) 5th Annual Midwest Regional Conference. The goal is to expose students to the profession of chemical engineering and engineering in general, and give students the opportunity to **interact with professional engineers, engineering students, and engineering faculty**. Students will come away from the program with an understanding of what chemical engineers do, how they touch our lives, and how to pursue a career in engineering. We encourage you and your students to join us for this one-of-a-kind program.

Sponsored by the Chicago Local Section and hosted by the IIT Student Chapter of the AIChE

HIGH SCHOOL OUTREACH PROGRAM

WHAT: Activity Schedule (same for both days)

- 8:30 - 9:30 **Tech Park Tours** – Smart grid center, Innovation center, Idea shop and Computerized crime prediction demonstration
- 9:30-10:15 **Introduction to Engineering** – Presentation and Ice-breaker
- 10:15-11:30 **Astronaut Al Sacco** – Chemical engineering professor and first chemical engineer in space
- 11:30-12:30 **Lunch** – with engineering students and practicing professionals
(lunch included at no cost to HS visitors)
- 12:00-1:00 **Networking Hour** – Engineering Game (with prizes), Robotics and Electric Car demos, ChE lab tours, and IIT admissions booth
- 1:00-1:45 **Engineering Panel** – Q&A with engineering students and professionals
- 1:45-2:30 **Physics of Skydiving**

WHERE: Illinois Institute of Technology

Bus Drop Off: IIT Tower, 10 West 35th Street, Chicago, IL 60616

Bus Pickup: Hermann Hall, 3241 South Federal, Chicago, IL 60616
(Visiting schools must provide their own transportation.)

For reservations contact Jessica Jaskolka (jjaskolk@hawk.iit.edu) and provide:

1. Teacher Name
2. Contact information (email and phone)
3. School name and location
4. Date selected (pick **ONE** of two dates 01/31/2013 or 02/01/2013)
5. Estimated number of students attending
6. Estimated arrival time
7. Estimated departure time

(The program is limited to 200 HS students per day, so reserve your slot early)

For additional information please contact:

Jessica Jaskolka
AIChE HS Outreach Coordinator
Email: jjaskolk@hawk.iit.edu
Phone: 224.383.5924

Professor Donald J. Chmielewski
MRC Conference Chair
Email: chmielewski@iit.edu
Phone: 312.567.3537

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We are on the web
www.aiche-chicago.org

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-chicago.org/Section_Info/Volunteer.html

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.

Student and AIChE Member Related Postings are Free.

