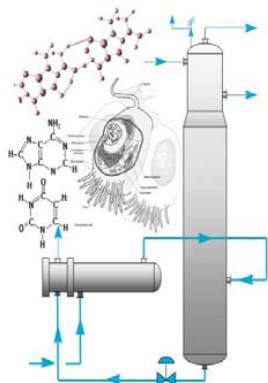


May Newsletter



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AIChE Chicago

May 2010 Meeting Notice

Project Design for Risk Management

Mike Moosemiller

Baker Engineering and Risk Consultants, Inc

Date: Tuesday, May 11, 2010

Location: Pappadeaux

798 W. Algonquin Road
Arlington Heights, IL 60005 (847) 228-9551

Cost: Members: \$35 Non-Members: \$40
Students: \$5 Unemployed Members: \$20

To Register CLICK the Link

<http://guest.cvent.com/i.aspx?4W%2cM3%2c824b8559-1cb9-4e33-b9f0-c2754e55baa6>

Registration deadline is Tuesday May 11 at noon.

Agenda

5:30 PM	Registration & Social Hour
6:30 PM	Dinner
7:30 PM	Meeting & Elections
8:00 PM	Technical Presentation

Chair's Corner "Year End Review"

As we are wrapping up another year of the local section programs, it seems proper to look back at the last months and review our performance. Of course, the main reviewers are the members who have attended the monthly meetings and glanced at the newsletters. During this past year, we have received some suggestions from the members about the monthly meetings and have tried to make them better as we moved along.

In summary, we had a total of seven meetings so far with one more planned this month and had issued monthly newsletters every month. On average more than sixty local section members, non-members and students attended these meetings which puts our local section on the top list of active sections. We also had a very successful two-day symposium that was attended by close to 150 people. Tremendous amount of effort goes into planning and executing these events and pulling the pieces together using the voluntary help is a challenge.



I truly want to take this final opportunity to thank all the people behind the very successful year we had especially Dan Rusinak who was in charge of venue, food and logistics. Of course, there are many more people who I am very thankful for their time and effort. Although we did not have as many new additions to our volunteer list as last year, we still managed to bring some new faces.

In addition to the monthly meetings, AIChE Chicago section participated in many of the local events including "future city competition" and "Dupage Engineering Week." Our young engineers volunteered their time and set up the AIChE booth at these events. This was done as part of the "student outreach" program. One of the biggest programs of this group occurs at the symposium where the high school students are brought to the universities for a tour and one on one conversation with a practicing engineer. This event is sponsored mainly by the local companies.

Although we are a non-profit organization, we still need to make sure that we are in a good financial and operational health. One big thank you goes to our current treasurer, Catherine Fieber who has done a tremendous job of keeping the books up to date and actually analyzing the financial data. Unfortunately, she will not be able to help us next year and we will miss her assistance.

I have bad news to share with you here also. One is that our membership is reducing and the other is that we have not yet managed to be linked to the local companies. It seems that these actually are related and if we can somehow get the support of the local companies' management, we are sure to increase our members. This is where you can help your organization, as I have pleaded before. If there is an occasion please let others in your place of work know about the local section events. This will help all of us grow and benefit from the society that we are all part of.

Once again, I thank all the great people who made this year a success and my year as the section chair a satisfying experience. I hope there has not been any moment during our interaction that I have made it unpleasant for you and if there was, I hope it will be forgotten. We have an impressive slate for next year's officer; so please be sure to vote in this month's meeting or request and absentee ballot from one of the secretaries.

Reza Mostofi
UOP

Member of the Month

It has been said many times, "You only get what you put in", or "whatever energy you send in you will get back in multiples of abundance". That has been my experience with AIChE. I have gotten at least one job, many friends, possibly admission to Northwestern, and a LOT of management and useful life/professional experience because of my involvement in AIChE. I think there will be more good things coming back to me in the future.



I began my volunteer years at AIChE in my undergraduate years at the University of Illinois. I am now a Fellow. I believe I have held many of the positions you can hold in the student chapter and two local Sections (St. Louis and Chicago). Now I am volunteering mostly on the National level. In that time, I have cut and pasted dozens of paper newsletters, managed dozens of meetings and then board meetings, planned two local and one National Symposia, planned and coordinated programming for a National Division, and Chaired a National Meeting. I am currently vice chair of a national committee. That is a LOT of unpaid hours. And yet...

I got my first two jobs because of AIChE. When I transferred into the University of Illinois at Urbana (from Knox College), each student was getting five offers, on average, for positions. In the year I was looking for work, which was the very next year, many companies were rescinding offers to come to the site to interview, or rescinding offers altogether. So, I graduated with no job. Over the summer, I moved to St. Louis, and

worked with the local headhunters there until I found a Research Chemist position at Monsanto Company. Why did I get that job? It was because I could program in Fortran. I had learned to do this for my design project at Illinois. Through my AIChE volunteering, I had managed to work my way onto the design team with the valedictorian of the class. Shre had access to the mainframe, making it possible for me to work on the design problem.

After a few years, I wanted a real drawings and specifications job. So, I started talking about it at local Section AIChE meetings. By then, I was the Newsletter Editor. I spoke with someone else working at Monsanto, who was tired of traveling for her drawings and specs job. So, we talked with our supervisors, and traded. Neither her new job nor mine were ever posted.

AIChE helped me think about changing jobs. Later, due to a downsizing at Monsanto, I moved to Chicago. At the time I left, I was about to be in a runoff election for Local Section Chair at St. Louis. I called several headhunters to start a job search in Chicago. This time, the market was better. I was to interview at Amoco downtown, and a company called Abbott Labs, which I had never heard of. I thought it might be better to work at Amoco (which it still was at the time), or at an Engineering firm. So, I talked to the local section chair, Shannon Brown. After listening to her and others, I took the offer from Abbott. I still work at Abbott today.

AIChE helped me stay in the game in the prime of child rearing years. After a few years at Abbott, I decided to take a two year leave of absence to be with my children. This was at the dawn of the Internet age. I knew that if I did nothing during that period, I may not have the computer skills to go back to work. So, I volunteered for the GAC committee for the 1996 Annual Meeting in Chicago. I did not own a computer at the time, but I volunteered to coordinate the Session Aides. Session Aides are high school students that used to come to every session of a meeting.

Annette Johnston

Their job is to make sure the projectors worked, took attendance, and ran out for emergency chairs. Remember, no laptops for this meeting - everything was on overheads or slides. For this project, I called some people I knew back at Abbott. One gave me a computer for use for email to coordinate this project (mine was quite antiquated). Also, they agreed to help with the details - like being chaperones for the aides the day they arrived. In the end 350 high school students came to that meeting. We had a paper competition, and we gave each of them a goody bag with pens, energy bars, paper, trinkets and drinks from local companies. I felt like I had more talent than I knew. And, when I called Abbott back to work part time, they asked me, when can you start? I worked part time for five years.

AIChE allowed me to practice management outside of the office. While I was working part time, I volunteered to coordinate two local section symposia. I was working with some engineers at Pharmacia on an Abbott project. I asked them, why don't you ever come to meetings? They said, "because the topic is never interesting". So, I promised I would get a meeting on the local section docket that interested them. I suggested a chromatography program. I learned that I had just been promoted to Symposium Chair. So, I learned how to set up technical meetings. I went on to work with BP (Amoco had long gone) to on a Symposia on Process Intensification. Soon after the BP symposium, my boss told me "you need to think about coming back full time". And so I went back full time, and I was promoted.

AIChE has reinforced my confidence to go farther and higher. Once back at Abbott full time, I moved through several positions in the local Section, and was eventually elected Chair of the section. I found this to be a great honor, and it gave me a LOT

more practice "talking to people" and setting up projects. I had confidence speaking before the group at section meetings, which then translated into my work. I found myself unafraid to speak before hundreds of people at status meetings, Women's Network meetings within Abbott, and at National Meetings. I have my present job because I started attending and speaking at Women's network meetings at Abbott. I asked my present boss, who I met at an event, about engineering practice in her area. She told me she had an opening, and so I applied.



At a National Meeting in Reno some years ago, I ran into the same people I had met in Pharmacia. They said, "We know some people you should meet". And so, my relationship with the Process Development Division of National AIChE was born. From this experience I have made friends worldwide. These friends have supported me in many National volunteer roles and capacities. The Chicago Section nominated me to become a Fellow, and it was my National AIChE friends that sent in the recommendations.

AIChE is still a foundation for me to build on. I have recently been accepted at Northwestern, into the Master of Engineering Management Program. I think this is because of two things: 1) I am a fellow of AIChE, and 2) I had good letters of recommendation regarding my management skills. I learned a lot of those skills at AIChE. With this new degree, I fully expect to become a Director of Engineering or Plant Manager of a major facility in the next 5 years. Perhaps, whenever I retire, I will start my own firm. I know who I will recruit, because I will have already met them through AIChE.

Everyone's AIChE story will be different from mine. However, the theme is the same - all of the good energy you put in comes back to you.

May 2010 Meeting Information

Abstract:

Historically, new project design engineers and process risk analysts have operated in different points in time in the life of a process. This has frequently resulted in designs that achieve the operational goal, but subsequently require expensive modifications to the process and/or the surrounding infrastructure to address issues safety risks that were not perceived at the time of the original design. The situation is gradually improving, since the promulgation of OSHA's Process Safety Management rule and, subsequently, other industry standards such as API's Recommended Practice on facility siting. Nonetheless, most of industry is still in 'retrofit' mode in this respect and probably will be for several years to come.

The presentation presents some basic concepts that can be introduced at the initial design phase to help avoid more expensive fixes later, features examples of "inherently safer design", the current state of regulations and industry standards that are de facto regulatory requirements, and shows explosion and structural test videos that illustrate some of these concepts.

Speaker's Bio

Mike Moosemiller is a Senior Principal Consultant in BakerRisk's Chicago office. He received a B.S. in Chemical Engineering from Purdue University, worked for seven years at UOP – primarily as a new refinery process commissioning engineer, then got a Master's in Chemical Engineering from the University of Wisconsin-Madison. For the past 22 years he has been involved in a variety of process risk management consulting activities. He is on the AIChE 11A Loss Prevention Symposium committee, is a Director of AIChE's Health and Safety Division, and will be chairing the Safety Section of AIChE's Midwest Regional Meeting this fall. He is currently co-authoring the upcoming CCPS book "Guidelines for Evaluating Process Plant Buildings for External Fires, Explosions and Toxic Releases".



Election Of Section Officers

ABSENTEE BALLOTS

Election of officers will be held at the annual meeting on **May 11**. If you expect to be absent from this meeting, you may vote by absentee ballot. Please contact our secretary at aichechicago@gmail.com to obtain one.

To Register Click the link:

<http://guest.cvent.com/i.aspx?4W%2cM3%2c824b8559-1cb9-4e33-b9f0-c2754e55baa6>

AIChE Chicago Section Student Awards

McCormack Awards

Each year, the McCormack award is given to one chemical engineering undergraduate student at Northwestern University, University of Illinois, and Illinois Institute of Technology based on a combination of excellence in study, research, and extra-curricular activities. This year's winners are:

Recipient: Nicholas Ruggero

University: Northwestern University

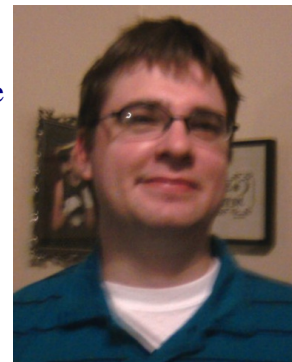
Nicholas Ruggero will be graduating from Northwestern University this June, and will be attending graduate school for chemical engineering at Stanford University in the fall. Upon completing his PhD, Nicholas plans to pursue a career at a national laboratory or in industry. He has been employed as a co-op with Applied Thin Films Inc. for the past three years, and has been involved with Northwestern's Gateway Science Workshop program for the past four years as a peer facilitator.



Recipient: Eric Graves

University: University of Illinois

Eric Graves first attended college at the University of Missouri – Columbia where he graduated with an honors degree in English. A year after graduating, and a year of enduring the job market of an English major, he moved to Chicago from his hometown of Kansas City, Missouri and entered into the chemical engineering program at the University of Illinois at Chicago. While at UIC, he was a member of AIChE and achieved a 3.75 grade point average. He will graduate from the UIC chemical engineering program in May 2010 with a concentration in biochemical engineering. After graduating, he plans to find a position in the industry and begin working as a chemical engineer.



Recipient: Chris Wolcott

University: Illinois Institute of Technology

Chris Wolcott has demonstrated a dedication to the profession through involvement in the Illinois Institute of Technology AIChE Student Chapter as well as undergraduate research. Within the student chapter, Chris was a driving force, serving as Treasurer and President and put together the first ever Knovel Scavenger Hunt. On the subject of research, Chris was involved in studying Li-ion battery thermal effects using micro- and differential scanning calorimetric methods (with Professor Prakash). In the summer of 2009, Chris participated in the Research Experience for Undergraduates program at the University of Delaware, studying the effects of temperature and pressure on CO adsorption to Pt surfaces (with Professor Lauterbach) His current plans are to attend graduate school at the University of Washington in chemical engineering.

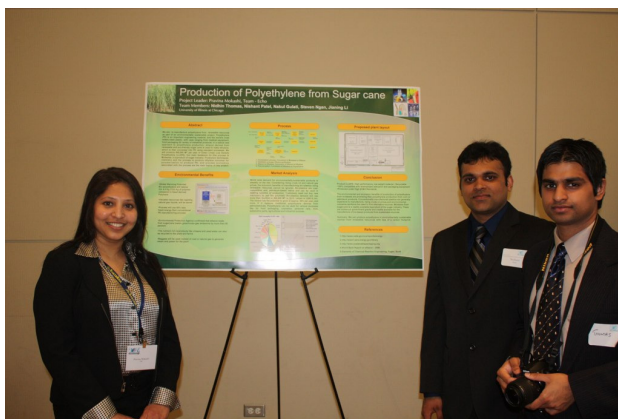


Poster Session Competition Winners

Fifteen posters were presented by individuals and teams from UIC and Illinois Institute of Technology at the poster competition held at the April 14 local section meeting.

Undergraduate

1st Place – “Production of Polyethylene from Sugarcane” – UIC - Pravina Mokashi, Nidhin Thomas, Nakul Gulati, Nishant Patel, Steven Ngan, and Jiang Li

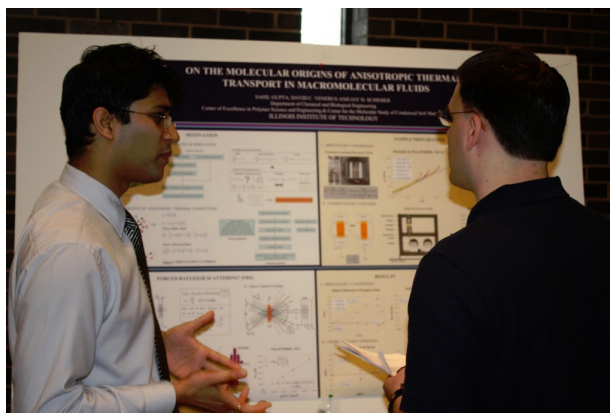


2nd Place – “Silver Nanorods as Indication of Thermal History” – IIT – IPRO 348

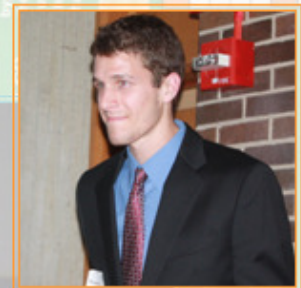


Graduate

1st Place – “On the Molecular Origins of Anisotropic Thermal Transport in Oriented and Stressed Polymers” – IIT – Sahil Gupta

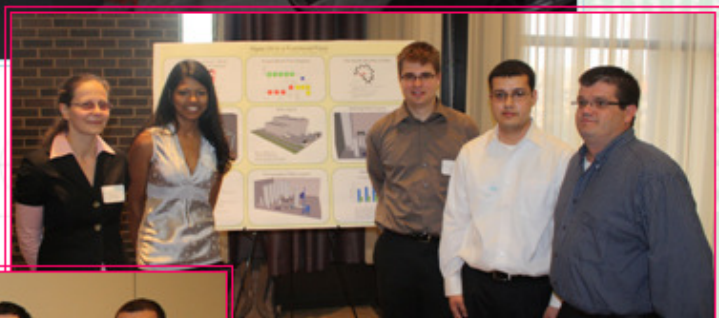


April Meeting and Student's Poster Night



ATION OF PHENOLS FROM
FOR GREEN ADHESIVE PRO
Ruzicic, andjevic

By: Pat Shannon



for better utilization
environmentally friendly, non-
petrochemical derived

PRODUCTS

WASTE-FREE PROCESS

CARBON NEUTRAL PROCESS

LOW NO_x & SO₂ EMISSIONS

BASIS

1. Polyethylene Glycol (PEG)
 2. Polyethylene Glycol Dimethyl Ether (PEG-DME)
 3. Polyethylene Glycol Methyl Ether (PEG-ME)
 4. Polyethylene Glycol Methyl Ether Acrylate (PEG-MEA)
 5. Polyethylene Glycol Methyl Ether Methacrylate (PEG-MEMA)
 6. Polyethylene Glycol Methyl Ether Methacrylate Acrylate (PEG-MEMA-A)
 7. Polyethylene Glycol Methyl Ether Methacrylate Acrylate Acrylate (PEG-MEMA-AA)

AIChE 2010 Midwest Regional Conference

Please check the website for more information,

<http://www.aiche.org/Conferences/2010chicagoconference.aspx>

[AIChE Home](#)

[Conference Home](#)

[Program at a Glance](#)

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[Energy Generation Papers](#)

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AIChE₂₀₁₀

Midwest Regional Conference
September 30 - October 1 | Chicago, Illinois

Building the Future of Chemical Engineering



Nanotechnology | Pharmaceuticals | Process Engineering

Energy Generation and Renewables | Biological Engineering

Presented by the AIChE Chicago Section

Hosted by  ILLINOIS INSTITUTE OF TECHNOLOGY

MAY 11 AICHE CHICAGO ELECTIONS

PROPOSED SLATE FOR 2010

PLEASE NOTE THAT THE OFFICER ELECTIONS FOR FISCAL YEAR JULY 1, 2010—JUNE 30, 2011 WILL BE HELD DURING OUR MAY MEETING. IF YOU CANNOT ATTEND PLEASE CONTACT **Steve Schade** at ssschade@juno.com FOR AN ABSENTEE BALLET.

Chair Elect - Steve Schade
ssschade@juno.com

Steve Schade was a Senior Engineer at Ambitech Engineering from 2005—2010, working primarily on projects for clients in the petroleum industry. Previously he was employed at UOP, specializing in aromatics processes. Earlier in his career he was involved in process development work with IGT, Searle, and USG. Steve has BS and MS degrees in Chemical Engineering from the University of Missouri at Rolla (now Missouri University of Science & Technology). He has been active on the AIChE section Student Outreach committee, giving presentations at schools and helping prepare displays for Chemistry Day and Engineers Week. Currently he serves as Vice Chair Program.

Need a Volunteer @ Registration Desk

If you are planning to attend next monthly meeting please consider helping us at the registration desk. For more information, please send an email to

aichechicago@gmail.com

Vice-Chair Program—Peter Herena
peter.herena@kenexis.com

Mr. Hereña has ten years of experience in the design and installation of control systems and the implementation of safety instrumented systems for the process industries. Mr. Hereña is a Senior Engineer at Kenexis and responsible for facilitating HAZOP and SIL Selection. Additionally, he has extensive experience in engineered safeguard design basis development and verification/validation projects. Kenexis is a consulting company that provides services for all phases of the safety lifecycle.

Mr. Hereña began his career with UOP, a licensor of process units to the petroleum and petrochemical industries, where he performed field verification of control systems at customer sites, and designed and managed development of custom control projects. In 1997 he graduated with B.S. degrees in Chemical Engineering and Environmental Engineering from Northwestern University in Evanston, IL.

Mr. Hereña is very involved in the International Society of Automation (ISA) and participates on ISA standards committees, including SP 84 for safety instrumented systems and SP 18 for alarm systems. He also serves as a co-chair in the American Institute of Chemical Engineers (AIChE) National Spring Meeting content coordinator. Currently he serves as co-secretary.

(continued)-PROPOSED SLATE FOR 2010

Treasurer— Mike Buettner

Mike.Buettner@alfalaval.com

Mike Buettner is a Sales and Market Development Manager for the Midwest in Alfa Laval's Energy and Industrial group. He holds a BSChE from Michigan Technological University and an MBA focused on Operations from the University of Minnesota. Mike has over 15 years of experience in the process industry, 10 of those years have been in the oil refining industry and, most recently, the past 5 years bringing engineered solutions to that same customer base.

Mike has been a member of AIChE in the past, but has only recently become active in the Chicago chapter. I am looking forward to meeting all of the members and continuing the success this chapter has seen in recent years.

The majority of Mike's free time is spent on the demands of trying to raise three very active children in Yorkville. Currently he serves as co-secretary.

Secretary—Tom King

stephen.king@uop.com

Tom King has been with UOP since January 2007 and is currently working as a Design Engineer in the Olefins, Detergents, and Alkylation Engineering Center at UOP/Honeywell (Des Plaines IL). Tom previously worked as a Development Engineer in the Petrochemicals Operations Technical Support Group at UOP.

Tom has a BS in Chemical Engineering, Molecular Biology, and Biochemistry from the University of Wisconsin-Madison. Tom also has an MS in Bioengineering and an MS in Chemical Engineering from the University of Illinois at Chicago .

Prior to attending graduate school, Tom worked as a Research Associate at Pierce Biotechnology, Inc. (Rockford IL). While attending graduate school at UIC, Tom worked as a Research Assistant for UIC Research Resources Center and Molecular Biology Consortium in the Chicago Technology Park. Tom is an active member of AIChE and was previously Chair, Vice-Chair and Past Chair for the National Young Professionals Advisory Board of AIChE for 2006-2010.

Tom was on the Founding Committee of the YPAB Chicago Group in 2004-2006 and was the Chicago Local Section Publicity Co-Chair for 2005-06.

Career Resources

As a service to our members, we are posting jobs that are sent to us by recruiters or companies. You can access this list at:

http://www.iche-chicago.org/Job_Postings.html

AIChE national also has a very useful guide for career opportunities that you can access as a member.

<http://www.iche.org/CareerResources/>

(continued)-PROPOSED SLATE FOR 2010

Director at Large - Annette Johnston
Annette.Johnston@abbott.com

Annette Johnston has been active with the Chicago Section since 1996, when she coordinated the Session Aides for the Annual Meeting that year. She has held several positions in the Section, including Session Chair. She is a fellow of AIChE. Recently, she was the Meeting Program Chair of the Spring National Meeting in Tampa, FL in 2009. She is currently the Vice Chair of Research and New Technology Committee. Annette manages a Process Engineering Group in Abbott Diagnostics Division. She has worked at Abbott Laboratories for almost 20 years in various positions. Prior to that, she worked at Monsanto Company in St. Louis. Annette received her BS ChemE degree from the University of Illinois at Urbana, and BA Chemistry from Knox College.

New Book

**Commercialization of Innovative Technologies,
Bringing Good Ideas to the Marketplace**

C. Joseph Touhill, Gregory J. Touhill, and Thomas A. O'Riordan

ISBN: 978-0-470-23007-7

Hardcover

252 pages

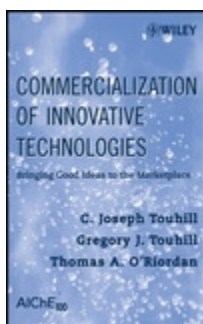
April 2008

Non-Member Price: \$64.95

Member Price: \$51.96 (You Save 20%)

More Info

[Purchase From Wiley](#)



April 2010 Outreach Event

Science Night 2010

Rob Sanders, UOP, represented AIChE at Science Night 2010 at Pritzker Elementary School in Chicago. This event, held on Monday, April 26th, engaged students and their families in a pumping demonstration focused on fluid flow and mixing.



Science, Technology, Engineering & Mathematics (STEM) Career Expo

AIChE was represented at the 2010 STEM Career Expo by Janet Chu, Bill Glogowski, and Jessica Swary of Middough; Rob Sanders and Ellen Kloppenborg of UOP; and Steve Schade. High school students attended this April 7th event at Fermilab, in which they learned the basics behind chemical engineering, discussed high school and college options, and got to see the basics of fluid flow, mixing, and pumping.



2010—2011 Elected Officers

Chair - Steve Rosenblum

Steve.Rosenblum@uop.com

Steve Rosenblum is a Senior Applications Specialist at UOP where he supports all simulation products at UOP and creates tools to help UOP engineering with its work processes. He has been a member of AIChE since 1977. He has been active in the Chicago section since 2005 where he took on the role as membership chairman. Steve has a Bachelor of Science degree in Chemical Engineering from Cornell University and a Masters of Science degree in Chemical Engineering from Northeastern University. Steve previously worked for Badger Engineering as a design engineer, and ABB Simcon as a dynamic simulation and optimization engineer prior to joining UOP in 1997.

Director at Large - Bill Glogowski

(continuing)

glogowwk@middough.com

Bill Glogowski is a Process Engineer with Middough in Oak Brook, joining in 2006 soon after receiving a BS in Chemical Engineering from the University of Illinois at Chicago and passing the fundamentals of engineering exam. In his current position, he is involved in process design in industries such as refining, consumer products, and pharmaceuticals. He was an active member in the student AIChE chapter at UIC and is now an active participant in the Section's Young Professional Advisory Board.

Director at Large - Dennis O'Brien

(continuing)

Dennis.O'Brien@jacobs.com

Dennis O'Brien is a Group Manager with Jacobs Consultancy in Chicago. He received a BS in Chemical Engineering from Tulsa University and an MBA from Roosevelt University. Chicago AIChE past activities include Secretary, Treasurer and Chair of the Chicago section. He is also has been involved in the planning of a number of the Spring and Fall section symposia. National activities include serving as a director of F&PD and he is currently Spring 2009 co-MPC and treasurer of F&PD. He is a Fellow of the institute.

YPAB Activity

RAPID THERMAL PROCESSING (RTP) PYROLYSIS

Date: Thursday, May 20th, 2010

Time: 6-8pm

Location: UOP, Building D, 25 E. Algonquin Rd., Des Plaines, IL.

Nathan Schurr, a Process Project Engineer in UOP's FCC Technology Center, will discuss Envergent's new developing bio-technology for converting biomass into a liquid fuel. Please RSVP to jessicaswary@msn.com by **May 17th**.

For UOP campus map, visit the website www.aiche-chicago.org/ypab.

Historical Engineering Events in May

May 5, 1809 – Mary Kies is the first woman to receive a U.S. patent. Prior to the U.S. Patent Act of 1790, only men could author a patent. Even after the federal law was passed, women couldn't patent as most states did not allow women to legally own property.

May 13, 1958 – Velcro® trademark is registered for a fabric hook and loop fastener.

May 16, 1960 – Theodore Maiman develops the first ruby laser, one of the first functional optical lasers while at the Hughes Aircraft Company.

May 17, 1954 – Official groundbreaking of the CERN laboratory occurred in Geneva.

May 23, 1930 – U.S. Plant Patent Act of the Hawley-Smot Trariff allows plants to be patented, giving plant breeders a financial incentive to perform plant breeding experiments.

May 30, 1932 – Amelia Earhart is first woman to fly solo across the Atlantic.

Selected from:

www.engineeringpathway.com/ep/

Gathered by: Darlene Hug

AIChE National's Live Webinar in May

Laboratory and Industrial Hazardous Chemical Safety: A Code-Based Approach

Presented by : Jeremy Lebowitz & Jonathan Eisenberg

Wednesday, May 5, 2010

The volumes of hazardous materials needed in a chemical facility vary, depending on the research and production requirements. From a fire protection and life safety standpoint, the model codes contain several design approaches for the storage and use of hazardous materials in such facilities. This presentation provides details of three code compliant approaches for fire protection and separation, based on the major applicable requirements contained in the 2006 International Building Code (IBC), 2006 International Fire Code (IFC) and NFPA 45, Standard for Fire Protection in Laboratories Using Chemicals (2004 Edition). The concepts and associated fire protection and life safety features contained in control areas, NFPA 45 laboratory units, and High Hazard occupancies will be discussed and applied to the chemical facility setting.

Storage and Flow of Bulk Solids

Presented by Dr. Karl V. Jacob.

Wednesday, May 12, 2010

Storage and flow of bulk solids/particulate materials seems relatively simple at first glance – in many cases, it is just simply a wide spot in the line. However, experience suggests that many vexing process problems and headaches are caused by numerous issues associated with bins and hoppers, such as arching, rathole formation, incomplete emptying, and segregation. This webinar will address the fundamentals of the flow and storage of bulk solids, and clearly demonstrate the considerable science behind the design and use of storage vessels for solids.

In particular, the various profiles that develop in silos will be examined along with the advantages and disadvantages for each. A key to understanding the flow of solids is how stresses develop in silos both with the solids at rest and when the solids are emptied from the silo. Flow property testing of bulk solids will be discussed and how the data is used to determine key parameters for a silo design. Numerous practical examples will be used throughout the webinar to illustrate the fundamental concepts.

This is the second in a series on Solids Processing and Particle Technology. Please note that each webinar in the series requires separate registration, and has been designed to function as both a standalone presentation and a component in the series.

Gathered by: Darlene Hug

New Books

Applied Hydro-Aeromechanics in Oil and Gas Drilling

Eugeniy G. Leonov and Valeriy I. Isaev

ISBN: 978-0-470-48756-3

Hardcover

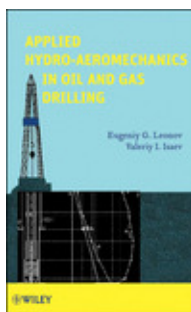
472 pages

November 2009

Non-Member Price: \$115.00

Member Price: **\$92.00** (You Save 20%)

[Purchase From Wiley](#)



Modern Biotechnology : Connecting Innovations in Microbiology and Biochemistry to Engineering Fundamentals

Nathan S. Mosier and Michael R. Ladisch

ISBN: 978-0-470-11485-8

Hardcover

433 pages

August 2009

Non-Member Price: \$99.95

Member Price: **\$79.96** (You Save 20%)

[Purchase From Wiley](#)



AIChE's Leadership Webinar in May

Visions of the Future from Industry Leaders

*Presented by Dr. Thomas M. Connelly, Jr.
Executive Vice President, Dupont*

Wednesday, May 19, 2010

This webinar describes the future of innovation in these spaces, and the roles that chemical engineers will be playing. Examples selected will illustrate selection of new fields of innovation and the new drivers of innovation. Additionally, a discussion is included on key metrics for measuring innovation effectiveness, and additional steps to maximize the return on innovation efforts. *This is the second in a series of AIChE Leadership Webinars. Periodically we will feature different industry leaders who will discuss their perspective on these issues. The first session was presented April 14, 2010, and featured Henry T. Kohlbrand, Global R&D Director, Process & Manufacturing Technology R&D, The Dow Chemical Company.*

The First 90 Days: Succeeding in a New Position

Presented by Dr. Ron Elsdon

Wednesday, May 26, 2010

Are you concerned that after moving into a new position, in your existing organization or in a new organization, you might struggle in those vital first few months so your true ability won't shine through? This webinar looks at some key aspects of managing the transition to a new position. It will focus on the foundation you need to chart a path forward, some traps that may get in the way of your early success, strategies you can employ, and developing the action plan you need for a running start, to accelerate into a new position. This session will be of interest to anyone moving into a new position, or contemplating such a move in the future, whether at an early or later career stage.

Upcoming Meetings

- May 2 –5, 2010** SBE's Second International Conference on Stem Cell Engineering,
Boston, MA
- May 11, 2010** Project Design for risk Management,
Arlington Heights, IL
- June 4-6, 2010** Leadership Development Conference ,
Kingsport, TN
- June 27-30, 2010** AIChE's 2010 Process Development Symposium: Energy Challenges
for Process Development The Lodge of Four Seasons
Lake Ozark, MO
- August 1-4, 2010** The 5th International Conference on Bioengineering and Nanotech-
nology Co-sponsored by Society for Biological Engineering (SBE)
Biopolis, Singapore
- September 12-16, 2010** 55th Annual Safety in Ammonia Plants and Related Facilities Sym-
posium Hyatt Regency
San Francisco, CA
- September 30 - October
1, 2010** 2010 AIChE Midwest Regional Conference Illinois Institute of Tech-
nology
Chicago, IL
- October 7-8, 2010** 2010 AIChE Regional Process Technology Conference Moody Gar-
dens Hotel
Galveston, TX
- October 11-13, 2010** AIChE-DECHEMA Global Conference on Energy Efficiency in Process
Development
Hong Kong SAR, China
- November 7–12, 2010** 2010 AIChE Annual Meeting,
Salt Lake City, Utah

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