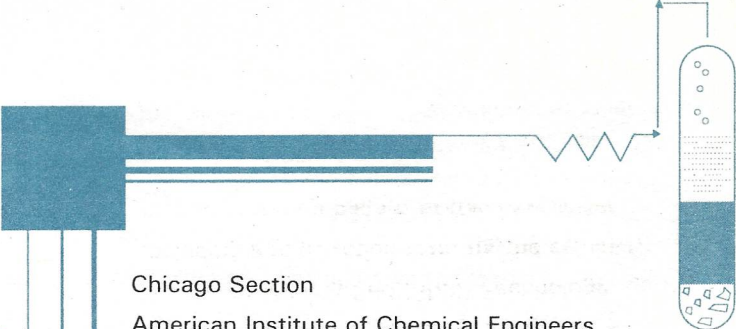


AIChESM Chicago Columns

section



Chicago Section
American Institute of Chemical Engineers
www.aiche-chicago.org

March Meeting Notice

Wednesday March 14, 2001
Pharmacia
4901 Searle Parkway
Skokie IL 60077

Agenda

Registration: _____ 5:00 - 5:30 pm
Pharmacia Tours and Buffet: _____ 5:30 - 7:30 pm
Pharmacia Speaker: _____ 7:30 pm -

Menu: Buffet catered by Maggiano's

Cost

\$28 _____ for members
\$30 _____ for non-members

*Registration: (for evening tours and presentation only): Please call your registration before March 9, 2001 to: Sandra Campobasso, UOP
Phone: (847) 391-2785*

Topic

Batch Chromatography and Simulated Moving Bed (SMB) Technologies

The topic for the March meeting will be Batch Chromatography and Simulated Moving Bed (SMB) Technology. Chromatography has matured into a standard engineering separation technique. Industrial scale columns are designed to handle thousands of liters per day. Large-scale applications include the production

of high-fructose corn syrup, human insulin, and decaffeinated coffee. This powerful technology can be used to separate high value compounds from racemic mixtures. In the petrochemical industry, it can be used to separate the Xylene isomers and normal and isoparaffins (for detergent manufacture). It can also be used for water purification.

During the day on March 14, 2001, the third annual AIChE Chicago Section Symposium will be held at Pharmacia in Skokie. This is a one-day seminar covering batch and simulated moving bed chromatography.

The March Section meeting begins after the symposium. It also will be held at Pharmacia's spectacular new Research and Development facility in Skokie. The program includes a tour of the Technology Development Laboratory, the API Pilot Plant and the Chromatography Laboratory. There will be a presentation on Pharmacia Research and Development following the tour. Please note that the evening tour is limited to 130 people, so sign up soon!

Additional information about the one-day seminar on Batch Chromatography and Simulated Moving Bed (SMB) Technology, including a registration form for the seminar, can be found on page 6 of this newsletter.

Directions to Pharmacia

1. EDENS EXWY towards Skokie
(West from Chicago, East from Winnetka)
2. Take the IL-58 E/DEMPSTER ST exit,
exit number 37B.
3. Merge onto DEMPSTER ST/IL-58.
(0.9 miles)
4. Turn RIGHT onto SKOKIE BLVD/US-41.
(0.8 miles)
5. Turn RIGHT onto SEARLE PKWY.
(0.1 miles)

For the symposium, park on the fourth floor of the parking garage and enter Pharmacia via the garage bridge.

For the evening meeting, park on the north side parking lot and enter Pharmacia via the center building entrance.

Poster Session Judges Needed

The April 11th Chicago Section meeting will include undergraduate and graduate student poster sessions. The poster session is an excellent opportunity for professionals to interact with local university chemical engineering students. There will be a judges meeting at 5:00 and judging will occur from 5:30 - 6:30. If you are interested in judging, please contact Cathy Zimmerman at (630) 420-4390 or zimmercm@bp.com.

AIChE Student Programs

Student Gold Mentoring Program - AIChE is looking for Local Section officers to mentor Student Gold members. Contact is generally through email on a bi-monthly basis. The investment in time is small, but the rewards are great. For more information, visit <http://www.aiche.org/sections/mentor.htm>.

Chairman's Corner

Suzette Wick, Dedert Corp.

Chair 2000-2001

Chicago Section AIChE

I firmly believe that you are never too old to try new things. There is that saying "You can't teach an old dog new tricks." Hogwash. My eight-year-old dog agrees. She loves learning new things too.

A few weeks ago I tried cross-country skiing for the first time. I have to admit though that I think I had the ideal environment for this new challenge. The group consisted of five other people whom I really enjoy spending time with -- two females, three males, with a wide range of ability, and all over 30. I was certainly nervous, but I think I had the right attitude. First, how bad can this be? Second, it will only last for an hour or so. Third, I have coffee spiked with alcohol waiting for me in the car when I am done.

The experience was great. After an hour of wonderful exercise, camaraderie, and nice scenery we were ready for a break. But in fact the fun didn't stop there. The tubing hill was calling our names. The six of us were the biggest kids on the hill. We are all looking forward to doing it again. I'm sure the size of our group will grow.

My encouragement to all of you is to try new things every once in a while, either in your personal life or your professional life. Try to plan your adventure in the best environment possible, get your mind right, and then have some fun with it.

Of course, we have to be reasonable when we are choosing our new activity. If you know that you can't sing, don't make arrangements to perform the theme from "Annie" in front of an audience. Sometimes it is better to just sing in the car to the radio.

Call for Applications: AIChE Minority Affairs Committee College Scholarships

The Minority Affairs Committee of the American Institute of Chemical Engineers awards twenty \$1,000 scholarships each year to college undergraduates and incoming college freshmen who are studying, or plan to study (in the case of incoming freshmen) chemical engineering. Students must be members of a minority group that is underrepresented in Chemical Engineering (i.e. African American, Hispanic, or Native American). We encourage you to invite all students who would benefit from this scholarship opportunity to apply. The deadline for application is April 16, 2001.

Descriptions of the awards are listed below, with links to the AIChE Web site and PDF application forms.

AIChE Minority Affairs Committee Scholarship Award for College Students is a scholarship award of \$1,000 conferred to an undergraduate in chemical engineering during the 2000-2001 academic year. The student must be a member of a minority group that is underrepresented in chemical engineering. Selection is based on the applicant's academic record, participation in AIChE student and professional activities, career objectives, and financial need.

<http://www.aiche.org/awards/awarddtl.asp?AwardID=7>.

AIChE Minority Affairs Committee Scholarship Award for Incoming College Freshmen is a scholarship award of \$1,000 conferred to a high school senior who is a member of a minority group that is underrepresented in chemical engineering. Applicants must plan to enroll during the 2001-2002 academic year in a four-year college or university offering a science/engineering degree. Students are encouraged to choose classes leading to a degree in chemical engineering. Selection is based on the applicant's academic record, participation in school and work activities, reason for choosing science or engineering, and financial need.

<http://www.aiche.org/awards/awarddtl.asp?AwardID=8>

If you have any questions about the awards, or would like a hard copy of application forms, please contact the AIChE Awards Administrator at awards@aiiche.org or (212) 591-7478.

2001 Regional Student Conferences - This spring eight AIChE Student Chapters will host Regional Student Conferences across the country.

Meet students in your area and invite them to join your section. For a complete list of host schools, dates, and contacts, visit

<http://www.aiche.org/students/regionalconference/index.htm>.

Nominations Requested for the Ernest W. Thiele Award

The Ernest W. Thiele award is sponsored by BP Amoco 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.

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 30, 2001:

Jim Simnick
BP Amoco Complex, J-8
150 W. Warrenville Road
Naperville, IL 60566
Ph 630-420-5936
Fax 630-420-4832
E-mail: simnicjj@bp.com

Chicago Section Columns is published eight times a year by the Chicago Section AIChE. Opinions expressed herein are those of the authors and are not necessarily those of the officers of the Chicago Section. Copy for inclusion in the next Chicago Section Columns must be received no later than February 23, 2001.

The objectives of the AIChE are to advance chemical engineering in theory and practice, to maintain a high professional standard among its members and to serve society, particularly where chemical engineering can contribute to the public interest. If you have any questions or comments regarding the newsletter please contact Mark Kuehne, NL Chemical Technology, 479 Business Center Drive Suite 100, Mount Prospect, IL 60056; Phone 847-824-2888; Fax 847-824-2898; MarkKuehne@aol.com.

From Concept to Consumer: Northwestern University's Manufacturing Business Conference

EVANSTON, IL - January 26, 2001 - Students from the Master of Management and Manufacturing (MMM) Program, a joint degree program between the Kellogg Graduate School of Management and the McCormick School of Engineering, will host the annual Manufacturing Business Conference (MBC) on April 28, 2001 at the Jacobs Center on the Northwestern campus. The MBC focuses on management and manufacturing issues involved in taking ideas from Concept to Consumer.

Manufacturing Business Conference

The MBC brings together individuals at the forefront of their fields to discuss the leading edge of manufacturing. This year's theme, Concept to Consumer, focuses on manufacturing's impact on strategic business decisions. In an effort to understand this impact, featured speakers representing key points in the product life cycle will share their insights and experiences. Panel discussions in this year's conference will include: Product Quality, Building the Highways to Operational Efficiency, Private Equity Acquisitions, Integration of Mergers & Acquisitions, Innovations in Operations, and Optical Networking. Says conference organizer, Johanne Wilson, "The conference is truly a day of learning, largely resulting from the diversity and interaction. It has been improving by great leaps every year, so this one will be the best one ever. I am very excited to have Mr. Cutler from Eaton Corp as our Keynote."

This year's Keynote speaker will be Alexander M. Cutler, CEO of Eaton Corporation. The Keynote will add to the day with high-level views of the changing landscape and the strategies used to stay on the frontier of the industry.

Registration for the conference will be online this year at <http://www.kellogg-abc.com/>.

The Kellogg Graduate School of Management at Northwestern University

The Kellogg Graduate School of Management is one of the top management education programs in the world, preparing its students to become business leaders. Kellogg boasts an award winning faculty, a diverse and accomplished student body, and an unparalleled network of partnerships with leading corporations around the world.

Robert R. McCormick School of Engineering & Applied Science

The McCormick School is one of the nation's top engineering schools, preparing students for the 21st century's challenges to technology and society. The school's mission is to educate students broadly in the fundamentals of science and engineering disciplines, while stimulating them to become innovative thinkers who can deal with complex issues in a changing environment.

For More information contact:

Jeff Zach
Kellogg Graduate School of Management
(847) 492-0051
jzach2002@kellogg.nwu.edu

Early Bird Notice

The April meeting is to be our annual Student Night, to take place this year at the University of Illinois at Chicago. Students from all three local chemical engineering departments (UIC, IIT, and NWU) are especially invited to attend, and to participate in the student poster exhibition. (A great opportunity for our local students to demonstrate to chemical engineering professionals what they are accomplishing in their studies.)

The speaker will be Professor Emeritus R. Byron Bird, of the Department of Chemical Engineering at the University of Wisconsin at Madison. The title of Dr. Bird's talk will be "Who Was Who in Transport Phenomena". Look for more details in the April newsletter.

**NOMINATIONS ARE OPEN FOR
CHICAGO SECTION OFFICERS**

Nominations are now open for candidates for Officers and Directors-at-Large for the Chicago Section AIChE for the 2001-2002 year. The elections will be held at the section's Annual Meeting on May 9, 2001. A nomination form and request for absentee ballot are published in this newsletter. The winning candidates will serve terms running from July 1, 2001 through June 30, 2002. From our Bylaws, to be an Officer or Director-at-Large, the candidate "must be a member of the Section in good standing" (paid local dues) "for at least two successive fiscal years including the year in which the election is held. In addition, all officers and Director-at-Large of the Section must be Fellows, Members, or Associate Members" of the AIChE National. "The Chairman shall have served at least one year on the Board of Directors before he is eligible to hold the Chairmanship."

The nomination form must be returned to the Secretary, Dennis O'Brien, or submitted in person by the close of the March 14, 2001 meeting. The final slate of candidates will be determined by the nominating committee consisting of Rebecca Abshire, Suzette Wick, and Allan Fluharty, and will be published in the May issue of the Newsletter, *Columns*.

Five Open Positions for Officers and Director-at-Large: A Chairman-Elect will serve a one-year term followed by a one-year term as Chairman. The Vice Chairman-Program, Secretary, and Treasurer will each serve a one-year term. A Director-at Large will be elected to a three-year term. There are three Directors-at Large whose terms expire on a rotating schedule.

Absentee Ballots Will Be Available: Officers and Directors-at-Large of the AIChE Chicago Section will be elected at the Section's Annual Meeting to be held May 9, 2001. Any member in good standing who cannot attend the Annual Meeting may use the absentee ballot. The absentee ballots will be available after the March 14, 2001 meeting. For an absentee ballot, please return the form below to Dennis O'Brien before the close of the April 11, 2001 meeting.

NOMINATION FORM

I suggest the following names for elective office in the Chicago Section AIChE:

Chairman-Elect

Vice Chairman-Program

Secretary

Treasurer

Director-at-large

Signature

ABSENTEE BALLOT REQUEST

I cannot attend the annual meeting in May 2001. Please send me an absentee ballot.

Signature

Name

Address

Return this form to: Dennis O'Brien, UOP Research Center, 50 E. Algonquin Road, Des Plaines IL 60017 (email - deobrien@uop.com).

Register Now for Chromatography Symposium

March 14, 2001

By now you should have received a brochure in the mail describing this year's symposium. The topic this year is Chromatography and Simulated Moving Bed (SMB) Chromatography. This meeting will not only provide a good survey of the technology, but also an opportunity to meet some contacts that might be helpful on your future chromatography project.

Most of the local players involved in this technology will be there. We will have representatives from NovaSep and UPT. These two companies have been involved in most of the significant chiral separations applications in the Pharmaceutical Industry. NovaSep will be introducing the basics of Chromatography and SMB. Later on, NovaSep will discuss the use of simulation software. UPT will show several examples of their applications. Examples of work at Pharmacia (for "small" molecules) and Abbott (for proteins) will also be discussed. There will also be representatives from UOP and ProSep. Most of us in the section are familiar with UOP. ProSep is a consulting firm involved in SMB and chromatography applications in the food industry. Linda Wang, our speaker from Purdue University, is an expert on low-pressure simulated moving bed chromatography. Lou Bellafiore, from TechniKrom, will present a discussion of the design and construction of the equipment used in chromatography. Finally, Ali Mansoori will present a look at super critical fluid chromatography.

Our hosts at Pharmacia will be hosting a tour of their facilities in the evening, including their new NovaSep SMB. Besides the program above, there will be some table-top displays in the atrium of their newest laboratory building. We will have TechniKrom and ProSep, who are experts in system design. Chiral Technologies and Mitsubishi will be showing their column packing and development services.

This is your opportunity to learn the technology, and the local experts to consult about it. We hope to see you there!

Symposium Registration Form

Please call or mail in your registration by February 28, 2001 to:

Chicago Section of AIChE
Attn: Sandra Campobasso, B-23
UOP
25 E Algonquin Road
Des Plaines, IL 60017-5017
Phone: (847)391-2785
FAX: (847)391-2758

Name _____

Company _____

AIChE Member Number _____

I am attending:

Symposium Only _____

Symposium +Tour and Dinner _____

(Check one morning and one afternoon
breakout below if attending Symposium.

See schedule on reverse side.)

Pharmaceutical Applications _____

Non-Pharmaceutical Applications _____

Chromatography Equipment Design _____

Chromatography Modeling _____

Enclose check made out to AIChE Chicago Section.

Fees:

Symposium Only:

AIChE Member—\$120

Non-Member—\$140

Dinner and Tour:

AIChE Member—\$28.

Non-Member—\$30.

VISA/MASTERCARD NO. _____

Signature: _____

Symposium Schedule

7:30am - 8:30am

Continental Breakfast and Registration

8:30am - 10:00am

Plenary Session:

Basics of Chromatography, SMB

10:00am - 10:30am

Coffee Break and Vendor Show

10:30am - 12:00pm

Example Applications

Breakout Session I:

Pharmaceutical Applications

Breakout Session II:

Non-Pharmaceutical Applications

12:00pm - 1:00pm

Lunch and Vendor show

1:00pm - 2:30pm

Plenary Session:

Parameters and Design Details

2:30pm - 3:00pm

Coffee Break and Vendor show

3:00pm - 4:00pm

Breakout Session III:

Modeling Chromatography Processes

Breakout Session IV:

Design of Chromatography Processes

4:00pm - 5:00pm

Plenary Session:

Engineering Issues and a Look to the Future

5:00pm - 7:30pm

Pharmacia Tours and Buffet

7:30pm

Pharmacia Speaker

Company Sponsorship of AIChE Meetings

The committee's efforts at sponsorship of monthly meetings are off to a good start. Sponsors are still needed for the rest of the year.

Our sponsors are:

September

RICH'S (Food Industry)

January

Project Resources Inc. (Process & Project Eng.)

February

Packer Engineering (General Engineering)

The committee requests you to energize your company to become a sponsor. The interaction between the engineering community and your company can be stimulating and rewarding for both. Please take a special initiative to make this program a success.

Once you have promoted your company's interest, any one of the following members will be happy to coordinate and develop the details with you.

N. Sankaran, UOP LLC

nsankara@uop.com

847-375-7893

Annette A. Johnston, Abbott Labs

Annette.Johnston@juno.com

847-433-7738

Rebecca J. Patrick, Cognis Corp.

Rebecca.patrick@cognis-us.com

815-939-6088

Jobs Bulletin - March 2001

Positions Available

S-0012 Engineer Situation wanted by new chemical engineer. Desires position in engineering and design. Specialty in process piping. Willing to locate anywhere. For additional information contact: 91-080-669-3041 or hemanth@usa.net.

60714X4617 1A

Dated Mail

American Chemical Society
7173 N Austin Ave
Niles, IL 60714

AICHESM

7177 N. Austin
Niles, IL 60714

American Institute of Chemical Engineers

Chicago
Columns
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Permit no. 305
Lockport, IL

AICHe Chicago Officers and Board Contacts

Position	Individual	Company	Phone
Chair	Suzette Wick	Dedert Corporation	(708) 747-7000 suzettew@dedert.com
Chair-Elect	Allan Fluharty	The C.P. Hall Company	(708) 594-5959 afluhart@cphall.com
Vice-Chair Program	Ganesh Venimadhavan	UOP	(847) 391-1322 gvenimad@uop.com
Treasurer	Alan Levine	Engineering Solutions, Inc.	(630) 886-4917 alevine@eng-sol.com
Secretary	Dennis O'Brien	UOP	deobrien@uop.com
Past Chair	Rebecca Abshire	American Pharmaceutical Partners	(708) 450-7657
Academic Liaison	Linda Broadbelt	Northwestern University	(847) 491-5351
	G. A. Moonsori	UIC	(312) 996-5592
	Fouad Teymour	IIT	(312) 567-8947
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Continuing Education	Raja Venateswar	Earthtech	Varuag@aol.com
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	John Forgac	BP	(630) 420-4960
	Dana Parker	IRI	(312) 454-4895
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	George Jarvi	Clark Refining	(708) 385-5000
	Rebecca Patrick	Cognis Corporation	(815) 939-6088
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	Jeff Perl	Chicago Chem Consultants	(312) 226-2436
	Dan Reuben	Fluid Equipment	(847) 392-9082
Industrial Liaisons	Craig Christofidis	Vision 123	(847) 931-1806 craigc@vision123.com
Job Posting	Gerald Bard	Matthew, Benjamin, & Bard	(414) 279-6394
Meeting Programs	Ganesh Venimadhavan	UOP	(847) 391-1322 gvenimad@uop.com
Membership	Cathy Zimmerman	BP	(630) 420-4390 zimmerc@bp.com
Publicity	Mark Kuehne	NL Chemical Technology	(847) 824-2888
	Don Nell	W.R. Grace	(773) 838-3195
Sponsorship	N. Sankaran	UOP	(847) 375-7893 nsankara@uop.com
Student Outreach	Annette Johnston	Abbott Labs	(847) 935-5120
Special Projects	Alan Zagoria	UOP	(847) 375-7335
Thiele Award	James Simnick	BP Research	(630) 420-5936
Webmaster	Roger Masson	Chicago Chem Consultants	(312) 226-2436