

The Packed Column

American Institute of Chemical Engineers - Upper Midwest Section

October 2008

This is the first newsletter of the season which runs May to May. We have a new chairwoman and vicechairman. Serving on the board is an opportunity open to all with more positions than volunteers. See the officers list at the end of the newsletter for positions that are open.

We have openings at two 2 days courses this month.

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Principles of Process Engineering

October 14 and 15, 2008

Page 3:

Principles of Process Scale Up

October 16 and 17, 2008

Nathan Johnson already has 3 monthly tours arranged. The announcement for the October tour is on page 4

Tour of Ecolab Inc. in Eagan

When: Wednesday, October 15 at 2:00 PM

RSPV: doc_curtis@rocketmail.com by October 10th with your [Name & Company](#)

So put the reservation date on your calander and remember that it is at 2PM.

655 Lone Oak Drive

MAKE SURE TO CHECK OUT OUR WEB SITE AT:
<http://www.aichelocal.org/tc>

ANNOUNCING TWO SHORT COURSES OFFERED DIRECT TO YOU AND YOUR ASSOCIATES BY THE UPPER MIDWEST AIChE

Registration is limited on a first come basis, no exceptions.

Principles of Process Engineering

October 14 and 15, 2008

Everyone working in product or process development encounters process engineering problems whether they recognize it or not. This is the stuff that many new Chem E.s say they never saw in school! The 2 day workshop is designed to provide basic and useful process engineering principles for technicians, scientists and engineers at all levels of development. The concepts are presented in a way that minimizes the use of complex engineering formulas and emphasizes **practical problem solving** in a user friendly manner without sacrificing understanding. This approach has proven successful in building confidence and experience in a hands-on workshop format. The subjects include material and energy balances, fluid flow and viscosity, heat transfer in process equipment and thermal properties of biomaterials.

Instructors

Course instructors are Dr. Ken Valentas and Dr. Leon Levine. Levine is a well known consultant to the consumer products industry with extensive experience at both P&G and Pillsbury. Valentas is the past Director of the BioTechnology Institute at the University of Minnesota and also has had over 27 years experience at Pillsbury, General Mills and Sinclair Oil. They have co-authored a book entitled, "Food Processing Operations and Scale-up". Valentas is co-editor of the "Handbook of Food Engineering Practice".

Cost:***

AIChE Member Price: \$1,095.00

Non-Member Price: \$1,195.00

Cancellation fees apply after 10/03/2008

*** This is the lowest cost offered by National AIChE for a two day course without the expense of travel and the time away from home.

To reserve a spot or if you have questions:

Contact Tom Kempf:

thomas.kempf@genmills.com

763-764-2873

Principles of Process Scale Up

October 16 and 17, 2008

Scale up of a process can be the ultimate determinate of success or failure in the commercialization of a new product/process. Unfortunately, the successful attainment of this task is not trivial and often ends in complete or partial failure. The goal of this course is to teach product/process development and design engineers the approach that can used to minimize failure and maximize success.

The first day of the course will introduce the general concepts related to successful product/process scale up and illustrate a technique for scale up of poorly understood unit operations, the types of experimentation required, and some consequences and reasons for poor scale ups.

The second day of the course will cover the use and applicability of dimensional analysis for analyzing and solving scale up problems that are well understood and the design engineering aspects of scale up.

The course will be taught through the extensive examples from the lecturer's experience and the classes participation in class exercises.

Instructors

The course instructor is Dr. Leon Levine. Levine is a well known consultant to the consumer products industry with extensive experience at both P&G and Pillsbury. He has co-authored a book entitled, "Food Processing Operations and Scale-up" as well as numerous journal articles.

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OCTOBER MEETING

Tour of Ecolab Research Center

When: Wednesday, October 15 at 2:00 PM

RSPV: doc_curtis@rocketmail.com by October 10th with [Name & Company](#)

Where: **Ecolab Inc.**

655 Lone Oak Drive
Eagan, MN 55121

Tour: The 1 hour overview tour is focused on highlighting Global RD&E capabilities for non-customer and non-sales training tour requests. Generally focused on community relations and internal based requests (i.e. schools, vendors, interns, new associates, investors,. etc.), these tours are guided by a tour guide who provides all of the relevant facts related to Global RD&E. The tour route is modified to complete the tour within ~ 1 hour and tours generally do not enter any laboratory areas. The purpose of the tour is to provide professional insights on Global RD&E to ensure guests appreciate the products, services and capabilities of our organization.

Directions to Ecolab Research Center (Schuman Campus)

From MSP Airport

Take I-494 East to the Dodd Road / Hwy 149 exit
Go south on Dodd Road to Lone Oak Parkway
Turn left onto Lone Oak Parkway
Turn right onto Lone Oak Drive
Stay in the left lane until you see the Ecolab sign
Turn left into the campus driveway

From Downtown St. Paul –Option 1

Take US-52 SOUTH -go 5.4 mi
Take the 70TH ST E/CR-26 exit and go right –go 2.6 mi
70TH ST E becomes LONE OAK RD -go 0.5 mi
Turn Right on LONE OAK DR -go 0.3 mi
Stay in the right lane until you see the Ecolab sign
Turn right into the campus driveway

From Downtown St Paul –Option 2

Go south on 35E to Hwy 110
Go east on Hwy 110 to Dodd Road/Hwy 149
Go south or right on Dodd Road/Hwy 149
Go left on Lone Oak Parkway
Go right on to Lone Oak Drive
Stay in the left lane until you see the Ecolab sign
Turn left into the campus driveway

From Downtown Minneapolis

Take I-35W SOUTH -go 4.4 mi
Take exit #11B onto MN-62 EAST -go 3.9 mi
Continue on MN-55 EAST -go 5.3 mi
Turn Left on LONE OAK RD -go 0.5 mi
Turn Left on LONE OAK DR -go 0.3 mi
Stay in the right lane until you see the Ecolab sign
Turn right into the campus driveway

On The Ecolab Campus

At the Ecolab sign, once you have turned into the campus driveway, you will come to a T in the road facing the complex. Turn LEFT and drive around to the parking area. Take the 2nd set of stairs up to the Ecolab Research Center building, which is the main entrance.

LOCAL OFFICERS' DUTIES

Chair

1. Grow the executive committee, and delegate necessary tasks.
2. Run monthly general meetings.
3. Write column for each month's newsletter.
4. Help with other committee members' activities.
5. Make suggestions for meeting ideas and help with contact names.
6. Plan executive committee meetings.
7. Stay in close contact with National. Forward any information that would be helpful to other committee members.

Vice Chair

1. Plan monthly meeting events.
2. Attend annual Officers Meeting held by National (other officers also invited to attend, required for Vice Chair).
3. Run monthly meetings if Chair is not in attendance.
4. Attend executive committee meetings and general monthly meetings.

Recording Secretary

1. Assist Vice Chair in planning monthly meeting. (Suggest ideas, get contact name, and assist in planning of meeting).
2. Record meeting minutes of all executive meetings and regular meetings when necessary (should work out a substitute to take minutes if unable to attend.)
3. Attend executive committee meetings and general monthly meetings.

Membership Secretary

1. Maintain list of members' names and addresses, and keep mailing list up to date.
2. Collect and edit and write articles for each edition of the newsletter.
3. Send newsletter out to membership.

4. Attend executive committee meetings and general monthly meetings.

Publicity

1. Contact new graduates in section area and personally invite them to a meeting. (List of new graduates available from National).
2. Contact other local societies in an effort to do joint meetings, advertisement in their newsletter, etc.
3. Work on possible advertising for monthly newsletter.
4. Attend executive committee meetings and general monthly meetings.

Treasurer

1. Attend all general meetings to collect money, give out receipts, and pay the bill (should have a backup prepared for each meeting if unable to attend).
2. Prepare a budget for the year and regularly update the executive committee on expenses.
3. Attend executive committee meetings and general monthly meetings.

Past Chair

1. Offer suggestions and advice on activities.
2. Continue to look for possible meeting ideas.
3. Try to recruit members for leadership positions.
4. Attend executive committee meetings and general monthly meetings.

Symposium Chair

1. List required symposium committee positions and what each person is responsible for doing.
2. Work with executive committee to find volunteers for symposium committee.
3. Prepare and organize symposium.
4. Attend executive committee meetings and general monthly meetings.

Volunteer or send your nominations by **May 16, 2008** to Elizabeth Willkom (eegwillkom@mmm.com).

Place an ad here and get results! Reach over 700 chemical engineers!

**Nathan Johnson, doc_curtis@rocketmail.com
651-737-0144**

YPAB ANNOUNCEMENT

by Steven Head

The Young Professionals Advisory Board (YPAB) is dedicated to gaining and maintaining the participation of young professional members. YPAB will foster relationships with young members and employers to promote increased participation. They will also advise AIChE on how to reach this target group and offer products and services that meet their needs. Activities of

the YPAB include seeking and inviting potentials, planning social events and local industrial tours, and arranging technical presentations by local organizations.

If you are interested in an exciting opportunity to network, help young professionals, and promote AIChE, please contact Steve Head shhead@sebesta.com to join YPAB. Young professionals are welcome.

Past Chair	Matt Atkins	Fluor Global Services	matt.atkins@fhr.com	952-492-5315
Chair	Elizabeth Willkom	3M	eegwillkom@mmm.com	651-737-5226
Symposium Chair	OPEN			
Recording Secretary	Justus Hendrickson	Fluor Global Services	justus.hendrickson@fhr.com	651-438-7282
Vice Chair	Nathan Johnson	Pace Analytical	doc_curtis@rocketmail.com	651-737-0144
Membership Secretary	Brian E. Jensen		brianejensen@prodigy.net	952-926-2141
Treasurer	Cameron McDaniel	Fluor Global Services	Cameron.McDaniel@fhr.com	
Scholarship Chair	Eric Hockert	University of Minnesota	ehockert@umn.edu	612-624-9568
Webmaster	Dongsheng Guan	General Mills Corporation	dongsheng.guan@genmills.com	763-764-3533
U of M Chapter Liaison	Prof. Raul Caretta,	University of Minnesota	caretta@umn.edu	612-625-8066
General Mills Chair	Thomas Kempf	General Mills Corporation	thomas.kempf@genmills.com	763-764-2873
Young Professionals Chair	Steven Head	Sebesta Blomberg	SHead@Sebesta.com	651-634-7364
Publicity Chair	OPEN			
Boston Scientific Chair	OPEN			
Your Company Chair	OPEN			



American Institute of Chemical Engineers
Upper Midwest Section
c/o Nathan C. Johnson
8500 177th Lane
Forest Lake, MN 55025