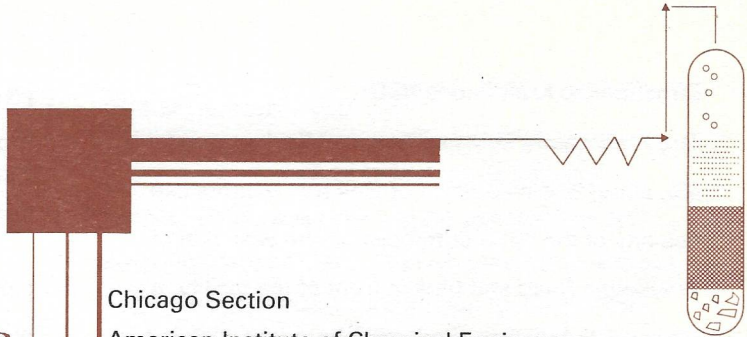




# Chicago section Columns



Chicago Section  
American Institute of Chemical Engineers  
[www.aiche-chicago.org](http://www.aiche-chicago.org)

## October Meeting Notice

Wednesday, October 11, 2000  
Kraft Foods Research and Development  
(Meet in Cafeteria)  
801 Waukegan Road  
Glenview, IL 60025

### Agenda

Check in and refreshments: .....5:30-6:00pm  
Begin talk and tour:.....6:00-7:30pm

### Cost

\$5 for refreshments, which will include sandwiches, potato salad, and soft drinks.

*Make your reservations by calling (847) 647-1347 or e-mailing [ellsull@suba.com](mailto:ellsull@suba.com) by Friday, October 6, 2000 before 12:00 noon.*

## Tour of Kraft Foods R&D Laboratories

Dr. Ley will discuss the nature of research and engineering in the food industry, and how it differs from other industrial manufacturing. This will be followed by a tour of laboratory facilities.

## About the Speaker

Dr. Walter Ley is a principal internal consultant in Kraft Foods Research and Development with 19 years of broad and diverse experience in research engineering, technology analysis, and business optimization in the chemical and food industries. Before coming to Kraft Foods he worked in both corporate engineering and manufacturing for the Monsanto Company, (now Solutia). He holds a B.S. in chemical engineering ('81) from the University of Missouri at Rolla, and M.S. and Ph.D. degrees in chemical engineering from the University of Illinois at Urbana-Champaign ('87 and '89 respectively). His primary fields of expertise are mathematical optimization of business and technology systems, strategy development, and direction and execution of strategy programs.

### Directions to Kraft Foods R&D:

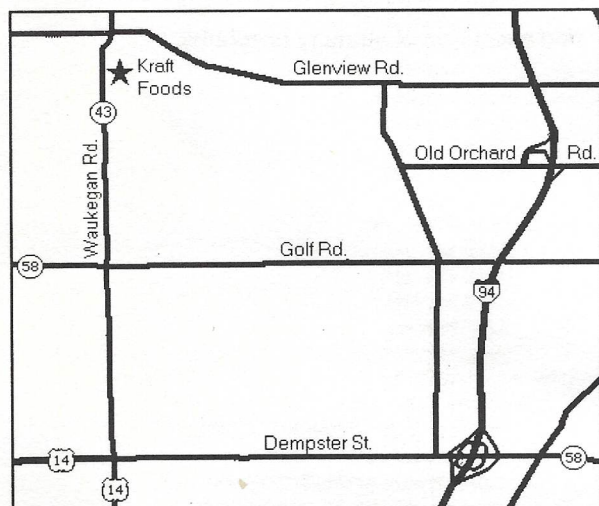
The Kraft Foods R&D facility is on Waukegan Rd. (IL-43), about one mile north of Golf Rd. Visitors can use any of the three entrances on the east side of Waukegan Road and park in front of the facility, a large white building. Park anywhere you wish in the lot between the building and Waukegan Rd. If you find yourself behind the building, turn back. Visitors will be escorted in through the front door, which is about in the center of the complex.

### From The North

Go south on I-94 and take the IL-43/Waukegan Road exit. Go south 5.6 miles, and turn left into any one of the three entrances of Kraft Foods R&D.

### From Downtown Chicago

Take I-90/94 to the north, and then I-94 (Edens Expressway West) towards Milwaukee. Exit at US-14 East/Peterson Ave., exit number 41B. Turn sharp left onto Caldwell Ave. After 4.4 miles, Caldwell Ave. becomes Waukegan Rd. Go north 2.3 miles on Waukegan Rd. (IL-43), and turn right into one of the three entrances of Kraft Foods R&D.



### Chairman's Corner

Suzette Wick, Dedert Corp.  
Chair 2000-2001,  
Chicago Section AIChE

I am really looking forward to the September meeting. That may sound a little strange to you because this is the October newsletter, but because of printing deadlines, I am writing this article before the September meeting. Anyway, the September topic is financial planning. This is timely for me because my other interest outside AIChE is an investment club. First, understand that I am certainly a novice at investing. That is one of the reasons I joined the investment club. The other, of course, is to make money. When we all sit down around the table at the monthly investment club meeting, we talk about things like return on our investment, and the risk that is associated with our stock picks. The thing that is most striking to me is that each person has a different perspective on our investments. Some may be similar, some 180° apart, but we all agree that we like it that way. We all like that fact that everyone has something to offer. That is why we invest as a group.

AIChE is the same. We all learn something from each other. Sometimes our perspectives on an issue are similar, sometimes they are 180° apart. Some are volunteers that have been active for years, some are new. I wouldn't have it any other way. We all realize that together as a whole we can make much more progress and that fresh ideas are welcomed, even if they don't match our own. I mentioned in my Chair-Elect letter back in the May newsletter that I would like to encourage people to join one of the Chicago Section committees. I am extending that whole-hearted offer again. I can't guarantee any returns on your time investment, but I can guarantee that you can come to the table and offer your ideas and make our group even stronger.

### **Nominees to the Honor Roll for Engineering Accomplishments**

The 75th Anniversary of the Chicago Section was held on May 20, 2000. As part of the celebration, 75 people were nominated to the Honor Roll for Engineering Accomplishments by Chemical Engineers in the Chicago area. Throughout the year, we will be highlighting some of these individuals and their achievements in each issue of the *Columns*. Thanks again to everyone who helped make this event special.

#### William M. Burton:

William Burton is best known for his work on crude oil thermal cracking. In conjunction with Robert Humphreys, they developed a thermal cracking process that doubled the amount of gasoline obtained from crude oil. The process was known as the Burton thermal cracking process. While he helped design the Burton Stills, the original equipment built to carry out the thermal cracking process, the principles involved are the foundation of modern refining methods. This work is said to be one of the most significant applications of chemistry and physics in the petroleum industry, as well as one of the greatest inventions of modern times.

#### Satish J. Parulekar:

Education: B.S. ChE University of Bombay  
M.S. ChE University of Pittsburgh  
Ph.D. ChE Purdue University

So far in his career Satish Parulekar has written over 60 technical publications, and 80 paper presentations at most of the major technical societies. He is an active researcher in biochemical engineering, including the modeling and optimization of biological and chemical processes. Satish has also been an active participant in the AIChE for over 14 years. Both he and his students frequently participate in the annual poster sessions held by the local section.

#### Herman Samuel Bloch:

Education: B.S. University of Chicago  
Ph.D. University of Chicago

Herman Bloch was both a great scientist and an amazing humanitarian. His two greatest inventions had a very significant contribution to the environment. Herman Bloch developed high octane isomerate blending components which enabled the removal of lead from gasoline and biodegradable detergents. These technologies make products that are still in use today. Beyond his scientific achievements, he was Chairman of the Chicago Housing Authority and Chairman of the Human Rights Commission. In addition to the many awards he received, Herman Bloch has over 240 patents.

#### Vladimir Ipatieff:

Education: Ch.D. University of St. Petersburg  
University of Munich - Honorary degree  
Ph.D. Strasbourg, Sofia, Northwestern

Vladimir Ipatieff worked actively with Herman Pines to develop the alkylation of alkanes, a revolutionary process that allowed oil refineries to convert waste gasoline into high-octane gasoline. This process is still used as the basis for high-octane fuel production today. One of the applications of his work was the creation of 100-octane fuel for military aircraft. In addition to this work, Ipatieff wrote 4 books, numerous articles, and holds over 174 US patents, and many more foreign equivalents of the same.

Make sure to watch next month's newsletter for highlights of Harvey Linden, Clarence Gerhold, John Swearingen, and Vladimir Haensel.

### **AICHE Officers' Conference**

The Chicago Section has the honor to host the AICHE Officers' Conference this coming May/June 2001. This conference brings together chemical engineers from all over the world as well as the National leadership of AICHE. In addition to helping the section host these individuals, working on this event provides an excellent opportunity for networking. Anyone interested in volunteering to help plan the event, please contact Alan Levine at 630-886-4917 or [alevine@eng-sol.com](mailto:alevine@eng-sol.com)

### **Visit A School, Get A Free Meal**

As you have already read, this year we are asking EVERY MEMBER of the Chicago Local Section to Visit a School in this school year. If you do, you are entitled to one free local section meeting attendance, including the meal! We are asking you to visit your child or grandchild's school, your local scout troop, or a school from a list we are compiling. Each new school visited entitles you to another meal. The meal is awarded when the evaluation form for the visit is turned in.

If you are interested in visiting a school and need an assignment, or are planning to visit one by your own arrangement, contact Jill Bonucci at (847)391-2373 or at [JABonucc@aol.com](mailto:JABonucc@aol.com).

### **Chemistry Day 2000**

This year, Chemistry Day 2000 will be held at Loyola University on November 4. As in past years, our local section is planning to have a display there. Students visit these displays, and are given stickers for every display they visit. These stickers are kept in a booklet that is issued at entry. In addition to collecting stickers, some students will interview the presenters about their careers in Chemistry.

We are planning to have a display about how the air and water on the Space Shuttle is cleaned and recirculated (or disposed of). Volunteers are needed to plan how best to make this presentation. In the past, we have given candy for answering a quiz about the display. Food is a great incentive at these meetings. Any new ideas would be welcome. Volunteers will also be needed to be at the presentation on November 4. If you are interested in participating, contact Annette Johnston at (847)935-5120, or [Annette.Johnston@abbott.com](mailto:Annette.Johnston@abbott.com). A committee will be forming soon.

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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 September 22, 2000.

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](mailto:MarkKuehne@aol.com).

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### Company Sponsorship of AIChE Monthly Meetings

At the last officers meeting, the board decided to put fresh effort into sponsorship of Section meetings by companies, an approach which was quite successful in the past. As an active member, please energize your company to sponsor a monthly meeting of the Chicago section of AIChE.

For a nominal contribution, the benefits to the company are as follows:

- ♦ Recognition of the company in the newsletter in a short paragraph.
- ♦ Your company can present its business, environmental or safety achievements through posters, slides, models or product exhibits before the meeting.
- ♦ Good publicity for your company before the engineering community.

Benefits to AIChE are:

- ♦ Contributions will partially cover some newsletter expenses.
- ♦ More active interaction will take place between the section and industry leaders.

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

Your initiating role is very necessary for this program to work, and the committee members will do their best to help. Together, let us get a few meetings sponsored this year.

### Jobs Bulletin-October 2000

When our members submit their résumés to the Job Posting Committee, we will publish recaps on the web and in the Newsletter. We will try to monitor confidentiality; it would be embarrassing to apply for one's own job. Send in your résumés if you are looking to change jobs.

#### AIChE JOB POSTING COMMITTEE

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nsankara@uop.com

**A 0026 Territory Sales Engineer** Capital Equipment manufacturer of glass lined pressure vessels seeks Chemical Engineer with 5+ years experience for sales in Chicago area. Experience should include OEM, aftermarket and/or engineered systems. Strong salary base, commission and company vehicle. Contact: Jack Page @ Page Associates, (904) 427-9908 or fax (909) 427-9909.

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