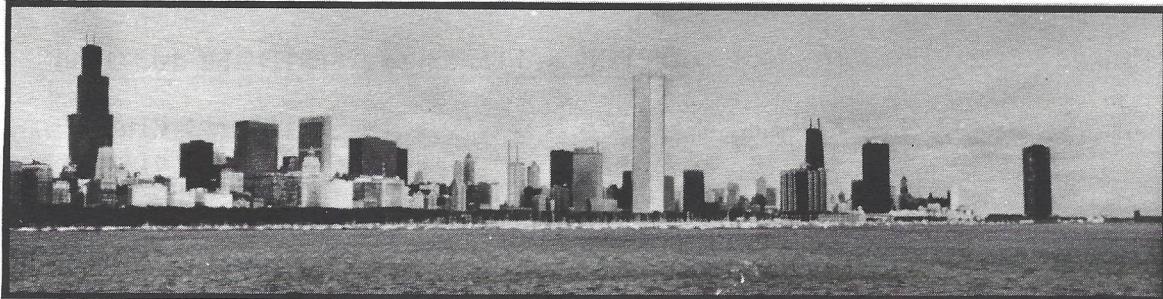


## NEWSLETTER



86 EAST RANDOLPH ST.

CHICAGO, ILLINOIS 60601

CHAIRMAN'S MESSAGE

Welcome to the Chicago Section's 1980-81 year, which promises to be an exciting one. Congratulations to Phil Lindahl, his officers and his board of directors for a successful past year. Your new officers and board of directors have already been working hard to make this the most successful year ever.

Tough challenges face chemical engineers and their profession. These include pollution control, handling of toxic wastes, energy shortages, development of alternative energy sources, industry-government interaction, etc. We will be choosing relevant speakers for the monthly meetings who will address these and other important topics. Although several of the speakers have already been chosen, we welcome suggestions for topics and speakers.

I invite everyone to participate in the local section activities. If you would like to participate on one of the committees, just contact one of the officers listed in this newsletter. Our section has been able to remain strong only through active participation of its many members.

This year we will continue the recent tradition of starting our monthly meetings in September, with no meeting in December because of the busy holiday season. Meeting locations will be rotated throughout the Chicago area so as to make it convenient for all members to attend.

Chicago will be hosting the 73rd Annual AIChE Meeting at the Palmer House during November 16-20, 1980. Although planning and organization of the meeting is well underway, there remains much to be done. If you would like to help, please contact Phil Lindahl, General Arrangements Chairman for the 73rd Annual Meeting.

The Chicago Section contains many outstanding individuals who have contributed to society and to their profession. Mike Lucas and his Awards and Nominations Committee will be working hard to select and nominate a number of deserving individuals for AIChE awards. If you have an associate who you believe qualifies for an AIChE award due to his/her accomplishments, please let Mike know.

Starting in October we will be using the up-to-date mailing list of paid national AIChE members provided by New York as our primary mailing list. We will also maintain a separate list of local section-only members. We believe that this approach will be more cost effective and will ensure that our mailing list is as accurate as possible.

I'm looking forward to meeting and working with you during the coming year.

Bob Schaefer

MEETING - WEDNESDAY, SEPTEMBER 10, 1980

## RESERVATIONS

MAKE RESERVATIONS EARLY BY CALLING 236-3036 NO LATER THAN SEPTEMBER 5. ALSO, AS A COURTESY, PLEASE CANCEL YOUR RESERVATION IF YOU ARE UNABLE TO ATTEND.

SOCIAL HOUR, 5:30 P.M.

Host: Honeywell, Inc., 2015 - 175th Street, Lansing, Illinois 60438  
312/474-9300

Honeywell, Inc. is the proven worldwide leader in digital process management systems. Since its introduction in November, 1975, TDC-2000 (Total Distributed Control) has been used by virtually every major chemical and petroleum company. It has been installed on over 100,000 control loops in approximately 1,000 systems in 22 countries. The TDC-2000 concept is based on using a distributed system architecture with cost-effective microprocessor technology. TDC-2000 provides a reliable process management system that: (1) distributes control and risk with digital accuracy; (2) uses a Data-HiWay communication cable for reduced wiring cost; and (3) has several levels of operator/process interfaces for improved control.

Honeywell also provides the following complete line of instrumentation equipment and services:

Field equipment - Primary sensors, transmitters, analyzers and control valves.

Control equipment - TDC-2000, analog controller and data acquisition devices.

Process Computer Systems - Standard and custom software, standard expandable hardware.

Services - Engineering, installation, and maintenance for a control system.

Please contact Joseph A. Velez 312/474-9300, Extension 266 for more information.

DINNER, 6:30 P.M.

Entree: Roast Round of Beef, au Jus

AFTER DINNER PROGRAM

Topic: Computer-Aided Chemical Process Design

Speaker: Dr. Lawrence B. Evans, Professor of Chemical Engineering, Massachusetts Institute of Technology.

Dr. Evans is Professor of Chemical Engineering at Massachusetts Institute of Technology. He joined the MIT faculty in 1962 after receiving his PhD and MS degrees from the University of Michigan and his BS from the University of Oklahoma. He served as Executive Officer of the Department from 1972-1974.

Industrial experience includes positions with Shell, IBM, and General Electric. He has consulted for Foboro, Occidental, Union Carbide and over 20 other companies.

Dr. Evans initiated and heads the ASPEN Project at MIT to develop a next-generation, computer-based process simulator. Funded by the Department of Energy and involving cooperation of over 60 companies, the system will be publicly available in 1981. Active in AIChE at both Local and National levels, Dr. Evans has chaired sessions, presented papers, and lectured in the Today Series. Committees include Program, Machine Computation, and Education Projects. He was elected to the Executive Committee of the Heat Transfer Division and helped found the CAST Division. As a CACHE officer since its inception in 1971, Dr. Evans has led in the use of computers in chemical engineering. This year he was awarded the Donald L. Katz Lectureship at the University of Michigan.

Dr. Evans is a candidate for Director of AIChE.

ABSTRACT

The field of computer-aided process design has emerged over the past twenty years. No major petrochemical process would be developed today by a leading company without use of a computer-based process model.

Progress in the field depends upon developments in process modeling, in numerical algorithms, in computer software and hardware, and in problem-oriented interfaces that make it easy for engineers to use and understand the systems. This talk will review advances in each of these areas as they relate to development of ASPEN, a next generation process simulator now being created at M.I.T. The challenge of the future will be to extend the technology of computer-aided industrial process modeling to cover the poorly understood systems involving solids that occur in industries such as metals, wood products, and synthetic fuels.

#### IMPLEMENTATION OF NATIONAL AIChE MAILING LIST

During the past several years, the Chicago Section has maintained its own mailing list. This list has grown to nearly 2500 names and is continually changing as members move to or away from the Chicago area. To reduce production and mailing costs for the newsletter, the Chicago Section Board of Directors has decided to utilize the up-to-date mailing list of paid national AIChE members provided by New York as the primary mailing list beginning next fall. We will also maintain a separate list of local section members. Starting with the October mailing, only members of National AIChE or the Chicago Section will receive the newsletter. If you would like to become an active member, please contact our newsletter editor, John Forgac (312/420-4960), for membership information.

#### GOVERNMENT INTERACTION COMMITTEE

Congressman Mike McCormack (D-Wash) has proposed an annual study of the comparative risks of nuclear power versus other energy sources. McCormack, who has an advanced degree in the physical sciences, talked sensibly about energy development at the recent Conference on Energy Advocacy. His bill, H.R. 7190, and a similar bill, S. 2844, come up for debate in the House Science Committee and the Senate Energy R&D Sub-Committee this month. You may wish to contact your representatives about these bills. Call Eric Flamm at 312/856-7811 for more information.

#### Candidates Needed for the State of Illinois Professional Engineering Examination Committee

Members of the Chicago Section who are also Registered Professional Engineers and who would like to be considered for being a member of the Professional Engineering Examination Committee should inform Bob Schaefer, Chairman of the Chicago Section, of their interest. Candidates must be Registered Professional Engineers with 12 years of professional experience. They must have been in charge of engineering work for five years and must be a citizen of the U.S. and a State of Illinois resident.

Members of the Committee are selected for a three-year term by the Director of the Department of Registration and Education from a list of candidates supplied by the various professional organizations. Since being a member requires about 20 days per year away from work to attend meetings and the P.E. exams, you need an understanding boss or a flexible work schedule.

Since the Committee is composed of members from the different engineering disciplines, the Chicago Section tries to nominate one or two Section members as candidates whenever there may be an opening for a chemical engineer on the P.E. Exam Committee. If you want to know more about this prestigious position, contact Larry Cameron, CPC International, 458-2000.

1980-81 CHICAGO SECTION OFFICERS

Chairman	Bob Schaefer	Amoco Oil	420-4927
Chairman-Elect	Bill Swift	Argonne	972-4388
Secretary	Ray Chase	IGT	542-6422
Treasurer	Dave Hacker	Univ. of Ill.	864-3639
Vice Chairman, Program	George McConaghy	Amoco Chemicals	420-5632
House	Dennis Leppin	IGT	567-3704
Membership Records	Keith Kline	Kline's Printing	274-8244
Publicity	John Forgac	Amoco Oil	420-4960
Student Relations	Jim Aderhold	Amoco Oil	420-5847
Employment Guidelines	Charlie Oppermann	Pigment Applications	233-4515
Awards and Nominations	Mike Lucas	Abbott Labs	937-7479
Government Interaction	Eric Flamm	Amoco Oil	856-7811
Nominating	Ed Fochtman	IITRI	567-4270
Audit	Bill Sandstrom	IGT	542-7097
IEC Representatives	Justine Beeson	IGT	542-6403
	Larry Cameron	GPC International	458-2000
	Charlie Oppermann	Pigment Applications	233-4515
	Bob Schaefer	Amoco Oil	420-4927
	Dick Snow	IITRI	567-4255

**OBJECTIVES OF THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS**

- To advance chemical engineering in theory and practice
- To maintain a high professional standard among its members
- To serve society, particularly where chemical engineering can contribute to the public interest.

This newsletter is published by the Chicago Section of the American Institute of Chemical Engineers. Copy for inclusion in the newsletter must be received not later than five weeks before the next meeting date.

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