## ANNOUNCEMENTS

## Chemical Process Control - V Proceedings

Now available from AIChE

A collection of peer-reviewed and edited presentations from the 1996 Chemical Process Control Conference (CPC), held in Tahoe City, California, Chemical Process Control-V offers and assessment of the growth and development of process control in the chemical industries over the last 20 years, as well as the most promising research areas to pursue in the years ahead. The book includes five papers assessing the current status of computer-aided process control in specific industry segments - including food processing, pulping and papermaking, and microelectronics - as well as new and emerging technologies and applications in adaptive and nonlinear control, impact of computer science, and predictive control.

A section looking back at past - and ahead to future - research directions, and featuring a paper entitled "CPC-I - CPC V: 20 Years of Process Control Research," and 22 "contributed papers" on subjects ranging from process modeling to the industrial-scale use of neural networks, round out the volume.

Edited by

Jeffrey Kantor, Carlos Garcia, and Brice Carnahan
Available from AIChE office
\$64 for North American members
\$88 for other members.

## Computers in Chemical Engineering Education

Now available from CACHE office

Edited by Brice Carnahan

20 papers by prominent chemical engineering faculty covering a wide range of subjects, from the impact of computing in individual undergraduate chemical engineering courses, to more general topics such as accreditation, multi-media instruction, numerical software, laboratory automation, and the Internet and World Wide Web. The papers are written from the perspective of past computing developments, present activities, and future directions in chemical engineering education.

## **Table of contents**

Preface - Brice Carnahan

Role and Impact of Computers in Engineering Education

Richard S. H. Mah and David M. Himmelblau

Computing Skills in the Chemical Engineering Curriculum

Jeffrey C. Kantor and Thomas Edgar

History of CACHE and its Evolution

J. D. Seader and Warren D. Seider

Interactive Computer-Aided Instruction

Susan Montgomery and H. Scott Fogler

General-Purpose Software for Equation Solving and

Modeling of Data

Mordechai Shacham, Michael B. Cutlip and N. Brauner

Thermodynamics and Property Data Bases

Aage Fredenslund, Georgios M. Kontogeorgis and Rafique Gani

CACHE's Role in Computing in Chemical Reaction Engineering

H. Scott Fogler

Transport Phenomena

Bruce A. Finlayson and Andrew N. Hrymak

Separations Processes

Ross Taylor

Conceptual Design and Process Synthesis

James M. Douglas and Jeffrey J. Siirola

**Process Simulation** 

Lorenz T. Biegler, J. D. Seader and Warren D. Seider

Optimization

Ignacio E. Grossman

Design Case Studies

Ignacio Grossmann and Manfred Morari

Process Control

Yaman Arkun and Carlos E. Garcia

Laboratory Automation and Real-Time Computing

Duncan A. Mellichamp and Babu Joseph

CACHE and the Use of Computer Networks for Education

Peter R. Rony

Intelligent Systems in Process Operations, Design and

Steven R. McVey, James F. Davis and Venkat

Venkatasubramanian

Languages and Programming Paradigms

George Stephanopoulos and Chonghun Han

Visualization

Andrew N. Hrymak and Patricia Monger 2001

Brice Carnahan

This book is now available from the CACHE office at a cost of \$15.00.

CACHE News Page 9