

EDITORIAL AND BUSINESS ADDRESS:

Chemical Engineering Education
Department of Chemical Engineering
University of Florida • Gainesville, FL 32611
PHONE and FAX : 352-392-0861
e-mail: cee@che.ufl.edu

EDITOR

Tim Anderson

ASSOCIATE EDITOR

Phillip C. Wankat

CONSULTING EDITOR

Mack Tyner

MANAGING EDITOR

Carole Yocum

PROBLEM EDITORS

James O. Wilkes and Mark A. Burns
University of Michigan

LEARNING IN INDUSTRY EDITOR

William J. Koros
University of Texas, Austin

PUBLICATIONS BOARD**• CHAIRMAN •**

E. Dendy Sloan, Jr.
Colorado School of Mines

• PAST CHAIRMEN •

Gary Poehlein
Georgia Institute of Technology

Klaus Timmerhaus
University of Colorado

• MEMBERS •

Thomas F. Edgar
University of Texas at Austin

Richard M. Felder
North Carolina State University

Bruce A. Finlayson
University of Washington

H. Scott Fogler
University of Michigan

Angelo J. Perna
New Jersey Institute of Technology

Stanley I Sandler
University of Delaware

Richard C. Seagrave
Iowa State University

M. Sami Selim
Colorado School of Mines

James E. Stice
University of Texas at Austin

Donald R. Woods
McMaster University

Chemical Engineering Education**Volume 31****Number 1****Winter 1997****► DEPARTMENT**

2 University of Connecticut, *Thomas F. Anderson, G. Michael Howard*

► EDUCATOR

8 Eduardo D. Glandt, of the University of Pennsylvania, *Kyle Vanderlick*

► AWARD LECTURE

12 Process Control: From the Classical to the Postmodern Era,
Thomas F. Edgar

► CLASSROOM

18 Spreadsheets for Thermodynamics Instruction: Another Point of View,
Stanley I. Sandler

46 Anomalous Results from Process Simulators,
Jafar Sadeq, Horacio A. Duarte, Robert W. Serth

52 Making Successful Oral Presentations: A Guide, *I. Nirdosh*

56 Anonymous Quizzes: An Effective Feedback Mechanism, *John T. Bell*

58 A Motivational Introduction to Process Control, *Wilbur W. Woo*

60 What Do You Want from Me? *Paul R. Amyotte*

► LABORATORY

22 Choosing an Optimum Feedstock for Yeast Production: A Design-Oriented
Senior Laboratory Experiment,

Suzanne M. Kresta, Andree Koenig, Murray R. Gray

26 Ion Exchange Chromatography Laboratory: Experimentation and Numerical
Modeling, *Mark R. Anklam, Robert K. Prud'homme, Bruce A. Finlayson*

34 Rapid Determination of Vapor-Liquid Equilibria: An Undergraduate
Laboratory Exercise, *Scott W. Campbell, Venkat R. Bhethanabotla*

64 A Simple Process Dynamics Experiment, *Srinivas Palanki, Vishak Sampath*

► RANDOM THOUGHTS

32 It Takes One to Know One, *Rebecca Brent, Richard M. Felder*

► CLASS AND HOME PROBLEMS

40 Problems in Mass Transfer and Separation Processes, *A.R. Konak*

► OUTREACH

44 The Job Club, *Donald R. Woods, Philip E. Wood, Malcolm H.I. Baird,*
Leslie M. Shemilt, John F. MacGregor, Sara Gallo-O'Toole

► LEARNING IN INDUSTRY

68 Co-Op Student Contribution to Chemical Process Development at DuPont
Merck, *Jihchin Chung*

25 Letter to the Editor

CHEMICAL ENGINEERING EDUCATION (ISSN 0009-2479) is published quarterly by the Chemical Engineering Division, American Society for Engineering Education, and is edited at the University of Florida. Correspondence regarding editorial matter, circulation, and changes of address should be sent to CEE, Chemical Engineering Department, University of Florida, Gainesville, FL 32611-6005. Copyright © 1997 by the Chemical Engineering Division, American Society for Engineering Education. The statements and opinions expressed in this periodical are those of the writers and not necessarily those of the ChE Division, ASEE, which body assumes no responsibility for them. Defective copies replaced if notified within 120 days of publication. Write for information on subscription costs and for back copy costs and availability. POSTMASTER: Send address changes to CEE, Chemical Engineering Department., University of Florida, Gainesville, FL 32611-6005.