

EDITORIAL AND BUSINESS ADDRESS:

Chemical Engineering Education
Department of Chemical Engineering
University of Florida
Gainesville, FL 32611
FAX 904-392-0861

EDITOR

Ray W. Fahien (904) 392-0857

ASSOCIATE EDITOR

T. J. Anderson (904) 392-2591

CONSULTING EDITOR

Mack Tyner

MANAGING EDITOR

Carole Yocum (904) 392-0861

PROBLEM EDITORS

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

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** •

George Burnet

Iowa State University

Anthony T. DiBenedetto

University of Connecticut

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

J. David Hellums

Rice University

Carol M. McConica

Colorado State University

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

Phillip C. Wankat

Purdue University

Donald R. Woods

McMaster University

Chemical Engineering Education

Volume 26

Number 3

Summer 1992

DEPARTMENT

114 University of Virginia,

Peter T. Cummings, Roseanne M. Ford, John P. O'Connell

EDUCATOR

120 Phillip C. Wankat, of Purdue University, *Frank Oreovicz*

CLASSROOM

122 Confirming Thermodynamic Stability: A Classroom

Example, *Kenneth R. Jolls, Jeffrey L. Butterbaugh*

146 "Product in the Way" Processes, *Noel de Nevers*

152 A Statistical Look at Significant Figures, *Park M. Reilly*

164 Design of CSTRs in Tandem Revisited, *A. A. Adesina*

CLASS AND HOME PROBLEMS

130 Three Problems in Fluid Mechanics,

James O. Wilkes, Stacy G. Bike

CURRICULUM

136 A Course Sequence for Instrumentation and Control,

Carlos A. Smith, Richard A. Gilbert

160 Molecular Enrichment of the Core Curriculum,

Henry A. McGee, Jr.

LABORATORY

142 The Effect of Agitation on Oxygen Mass Transfer in a

Fermentor, *Ronnie S. Roberts, James R. Kastner,*
Maqsood Ahmad, D. William Tedder

156 Add Some Flavor to Your Agitation Experiment,

M. Elizabeth Sensel, Kevin J. Myers

134 RANDOM THOUGHTS

What Do They Know, Anyway? *Richard M. Felder*

119, 133, 168 Book Reviews

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. Copyright © 1992 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.