

## EDITORIAL AND BUSINESS ADDRESS

Department of Chemical Engineering  
University of Florida  
Gainesville, Florida 32611

**Editor:** *Ray Fahien* (904) 392-0857

**Associate Editor:** *Mack Tyner*

**Editorial & Business Assistant:**  
*Carole C. Yocum* (904) 392-0861

**Publications Board and Regional  
Advertising Representatives:**

**Chairman:**

*Lee C. Eagleton*  
Pennsylvania State University

**Past Chairman:**

*Klaus D. Timmerhaus*  
University of Colorado

**SOUTH:**

*Homer F. Johnson*  
University of Tennessee

*Ralph W. Pike*  
Louisiana State University

*James Fair*  
University of Texas

*Gary Poehlein*  
Georgia Tech

**CENTRAL:**

*Darsh T. Wasan*  
Illinois Institute of Technology

*J. J. Martin*  
University of Michigan

*Lowell B. Koppel*  
Purdue University

**WEST:**

*William H. Corcoran*  
California Institute of Technology

*William B. Krantz*  
University of Colorado

*C. Judson King*  
University of California Berkeley

**NORTHEAST:**

*Angelo J. Perna*  
New Jersey Institute of Technology

*Stuart W. Churchill*  
University of Pennsylvania

*Raymond Baddour*  
M.I.T.

*A. W. Westerberg*  
Carnegie-Mellon University

**NORTHWEST:**

*Charles Sleicher*  
University of Washington

**CANADA:**

*Leslie W. Shemilt*  
McMaster University

**LIBRARY REPRESENTATIVE**

*Thomas W. Weber*  
State University of New York

# Chemical Engineering Education

VOLUME XV

NUMBER 3

SUMMER 1981

## 106 Departments of Chemical Engineering

UC Santa Barbara, *Dale E. Seborg*

## 112 The Educator

Bob Sparks, *Jill Murray*

## Undergraduate Research

120 Undergraduate Research in ChE . . . Thoughts and Comments From an ASEE Symposium, *Nicholas A. Peppas*

121 Undergraduate Research: Myth or Reality?  
*Albert Sacco, Jr.*

122 Undergraduate Research: A Necessary Education Option and its Costs and Benefits, *Arthur L. Fricke*

126 ChE Undergraduate Research Projects in Biomedical Engineering, *Pieter Stroeve*

130 Senior Thesis Research at Princeton,  
*Robert K. Prud'homme*

133 Research with Senior Level Students: Advantages, Disadvantages, Recommendations, *Dimitrios Tassios*

135 Student Preparation for Graduate School Through Undergraduate Research, *Nicholas A. Peppas*

137 Undergraduate Research in Chemical Engineering,  
*William B. Krantz*

140 Undergraduate Research as a Prerequisite for Graduation, *Emmanuel G. Koukios*

## 146 Administration

Coping with Bulging ChE Enrollments (Are You or Aren't You), *Robert B. Beckmann*

## 118 ASEE Division Activities

## 116 Letters to the Editor

## 144-145 Book Reviews

## III Positions Available

CHEMICAL ENGINEERING EDUCATION is published quarterly by Chemical Engineering Division, American Society for Engineering Education. The publication is edited at the Chemical Engineering Department, University of Florida. Second-class postage is paid at Gainesville, Florida, and at DeLeon Springs, Florida. Correspondence regarding editorial matter, circulation and changes of address should be addressed to the Editor at Gainesville, Florida 32611. Advertising rates and information are available from the advertising representatives. Plates and other advertising material may be sent directly to the printer: E. O. Painter Printing Co., P. O. Box 877, DeLeon Springs, Florida 32028. Subscription rate U.S., Canada, and Mexico is \$15 per year, \$10 per year mailed to members of AIChE and of the ChE Division of ASEE. Bulk subscription rates to ChE faculty on request. Write for prices on individual back copies. Copyright © 1981 Chemical Engineering Division of 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 of the ASEE which body assumes no responsibility for them. Defective copies replaced if notified within 120 days.

The International Organization for Standardization has assigned the code US ISSN 0009-2479 for the identification of this periodical.