#### **EDITORIAL AND BUSINESS ADDRESS**

Department of Chemical Engineering University of Florida Gainesville, Florida 32601

#### Editor:

Ray Fahien

#### **Associate Editor:**

Mack Tyner

#### **Business Manager:**

R. B. Bennett

#### **Production Manager:**

Rachel Albertson

#### **Art Editor:**

Ginger Ashley

# Publications Board and Regional Advertising Representatives:

WEST: William H. Corcoran Chairman of Publication Board Department of Chemical Engineering California Institute of Technology Pasadena, California 91109

SOUTH: Charles Littlejohn
Department of Chemical Engineering
Clemson University
Clemson, South Carolina 29631

EAST: Robert Matteson College Relations Sun Oil Company Philadelphia, Pennsylvania 19100

E. P. Bartkus Secretary's Department E. I. du Pont de Nemours Wilmington, Delaware 19800

NORTH: J. J. Martin

Department of Chemical Engineering
University of Michigan
Ann Arbor, Michigan 48104

CENTRAL: James Weber
Department of Chemical Engineering
University of Nebraska
Lincoln, Nebraska 68508

## Chemical Engineering Education

**VOLUME 2 NUMBER 1** 

**WINTER 1968** 

## **Departments**

- 3 Editorial
- 4 Chemical Engineering Department On Wisconsin R. B. Bird
- 8 The Educator Professor Joe Koffolt
- 10 Chemical Engineering Division Activities
- 11 The Classroom
  Common Thermodynamics Course for Engineering Sophomores,
  F. S. Manning and L. N. Canjar
- 16 The Laboratory
  Laboratory Experience in Transport
  Phenomena
  E. H. Wissler
- 45 Book Reviews
- 46 Problems for Teachers

### Feature Articles

- 20 Mass Transport Phenomena in the Human Circulatory System K. H. Keller
- 27 Dynamic Optimization W. F. Stevens
- 32 Chemistry Makes the Chemical Engineer T. W. Tomkowit
- 36 Views and Opinions
  On What Sort of Place, if any, Theoretical
  and Mathematical Studies should have in
  Graduate Chemical Engineering Research
  R. Aris
- 41 Are Chemical Engineers Selling Their Birthright for a Place in the Ivory Tower? *R. H. Wing*

CHEMICAL ENGINEERING EDUCATION is published quarterly by the Chemical Engineering Division, American Society for Engineering Education. The publication is edited at the Chemical Engineering Department of the University of Florida with the assistance of the Publications Office of the Engineering and Industrial Experiment Station. Application to mail at second-class postage rates is pending at Gainesville, Florida, and at additional mailing offices. Correspondence regarding editorial matter, circulation and changes of address should be addressed to the Editor. 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., 137 E. Wisconsin Ave., DeLand, Florida 32720. Subscription rates are \$3.00 per year in U.S. Copies of this issue printed, 3,200. Undeliverable copies should be returned to the business address.