

**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 1

Winter 1992

---

**EDUCATOR**

- 2 Thomas F. Edgar, of the University of Texas, Austin

**DEPARTMENT**

- 8 Instituto Tecnológico de Celaya, *Arturo Jiménez*

**AWARD LECTURE**

- 52 Computing in Engineering Education: From There, To Here, To Where? Part 2. Education and the Future  
*Brice Carnahan*

**CLASSROOM**

- 12 Moments with Mathematica,  
*H. Binous, B.J. McCoy*
- 20 Introducing Water-Treatment Subjects into Chemical Engineering Education, *L. Cáceres, E. Gruttner, V. Monardes, R. Contreras, B. Gómez-Silva*
- 44 Chemical Engineering Design: Problem-Solving Strategy,  
*Richard Turton, Richard C. Bailie*
- 50 Education in Process Synthesis: Application to Inorganic Processes, *J.M. Gutiérrez, J. Giménez, M.A. Aguado*

**OUTREACH**

- 24 Introducing High School Students and Science Teachers to Chemical Engineering,  
*Taryn Melkus Bayles, Fernando J. Aguirre*

**CLASS AND HOME PROBLEMS**

- 30 More Applied Math Problems on Vessel Draining,  
*Jude T. Sommerfeld*

**CURRICULUM**

- 34 Ideas About Curriculum, *Donald R. Woods*

**LABORATORY**

- 38 Computer Control of a Distillation Experiment, *Carl T. Lira*

**RANDOM THOUGHTS**

- 18 How About a Quick One? *Richard M. Felder*

**7, 23 Letters to the Editor**

**33 Book Review**

---

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.