

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

MANAGING EDITOR

Lynn Heasley

PROBLEM EDITOR

Daina Briedis, Michigan State

LEARNING IN INDUSTRY EDITOR

William J. Koros, Georgia Institute of Technology

PUBLICATIONS BOARD

• CHAIRMAN •

John P. O'Connell
University of Virginia

• VICE CHAIRMAN •

C. Stewart Slater
Rowan University

• MEMBERS •

Lisa Bullard

North Carolina State

Jennifer Curtis

University of Florida

Rob Davis

University of Colorado

Pablo Debenedetti

Princeton University

Dianne Dorland

Rowan

Stephanie Farrell

Rowan University

Jim Henry

University of Tennessee, Chattanooga

Jason Keith

Michigan Technological University

Suzanne Kresta

University of Alberta

Steve LeBlanc

University of Toledo

Ron Miller

Colorado School of Mines

Lorenzo Saliceti

University of Puerto Rico

Stan Sandler

University of Delaware

Margot Vigeant

Bucknell University

Chemical Engineering Education

Volume 43

Number 4

Fall 2009

► GRADUATE EDUCATION

- 306 Is There Room In the Graduate Curriculum To Learn How To Be a Grad Student? An Approach Using a Graduate-Level Biochemical Engineering Course

Marc G. Aucoin and Mario Jolicoeur

► CLASSROOM

- 302 Using Screencasts in ChE Courses

John L. Falconer, Janet deGrazia, J. Will Medlin, and Michael P. Holmberg

- 322 Development of Contemporary Problem-Based Learning Projects In Particle Technology

Andrew T. Harris

► RANDOM THOUGHTS

- 313 A Teacher's Teacher

Richard M. Felder

► SPECIAL SECTION: AIChE CENTENNIAL CELEBRATION

- 250 Pedagogy and Some Factors That Influence How We Facilitate Student Learning

Donald R. Woods

- 257 Integrating Modern Biology Into the ChE Biomolecular Engineering Concentration Through a Campuswide Core Laboratory Education Program

Susan Carson, John R. Chisnell, and Robert M. Kelly

- 265 A Nanotechnology Processes Option in Chemical Engineering

Milo D. Koretsky, Alexandre Yokochi, and Sho Kimura

- 273 In Search of the Active Site of PMMO Enzyme: Partnership Between a K-12 Teacher, a Graduate K-12 Teaching Fellow, and a Research Mentor

Katherine K. Bearden, Daniela S. Mainardi, and Tanya Culligan

- 279 Teaching a Bioseparations Laboratory: From Training to Applied Research

Daniel Forciniti

- 286 Separations: A Short History and a Cloudy Crystal Ball

Phillip C. Wankat

► CURRICULUM

- 296 Engaging Undergraduates in an Interdisciplinary Program: Developing a Biomaterial Technology Program

Jia-chi Liang, Shieh-shiuh Kung, and Yi-ming Sun

- 315 From Numerical Problem Solving to Model-Based Experimentation Incorporating Computer-Based Tools of Various Scales Into the ChE Curriculum

Mordechai Shacham, Michael B. Cutlip, and Neima Brauner

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 © 2008 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 Chemical Engineering Education, Chemical Engineering Department, University of Florida, Gainesville, FL 32611-6005. Periodicals Postage Paid at Gainesville, Florida, and additional post offices (USPS 101900).