

## Editor's Note to Seniors . . .

This is the 26th graduate education issue published by CEE. It is distributed to chemical engineering seniors interested in and qualified for graduate school. We include articles on graduate courses and research at various universities, along with departmental announcements on graduate programs. In order for you to obtain a broad idea of the nature of graduate work, we encourage you to read not only the articles in this issue, but also those in previous issues. A list of the papers from recent years follows. If you would like a copy of a previous fall issue, please write to CEE.

Ray W. Fahien, Editor

### Fall 1991

- Carnahan • *Computing in Engineering Education: From There, To Here, To Where? (Award Lecture, Part 1)*  
Deshpande, Krishnaswamy • *A Graduate Course in Digital Computer Process Control*  
Churchill • *Chemical Kinetics, Fluid Mechanics and Heat Transfer in the Fast Lane*  
Fleischman • *Risk Reduction in the Chemical Engineering Curriculum*  
Kodas, et al. • *Research Opportunities in Ceramics Science and Engineering*  
Peters • *An Introduction to Molecular Transport Phenomena*

### Fall 1990

- Austin, Beronio, Taso • *Biochemical Engineering Education Through Videotapes*  
Ramkrishna • *Applied Mathematics*  
Rice • *Dispersion Model Differential Equation for Packed Beds*  
Bhada, et al. • *Consortium on Waste Management*  
Felder • *Stoichiometry Without Tears*  
Cohen, Tsai, Chetty • *Multimedia Environmental Transport, Exposure, and Risk Assessment*  
Schulz, Bengel • *ChE Summer Series at Virginia Polytechnic*  
Roberge • *Transferring Knowledge*  
Coulman • *ChE Curriculum, 1989*  
Frey • *Numerical Simulation of Multicomponent Chromatography Using Spreadsheets*  
Fried • *Polymer Science and Engineering at Cincinnati*

### Fall 1989

- San, McIntire • *Biochemical and Biomedical Engineering*  
Kummner, McMicking, Powitz • *Hazardous Waste Management*  
Bienkowski, et al. • *Multidisciplinary Course in Bioengineering*  
Lauffenburger • *Cellular Bioengineering*  
Randolph • *Particulate Processes*  
Kumar, Bennett, Gudivaka • *Hazardous Chemical Spills*  
Davis • *Fluid Mechanics of Suspensions*  
Wang • *Applied Linear Algebra*  
Kisaalita, et al. • *Crossdisciplinary Research: The Neuron-Based Chemical Sensor Project*  
Kyle • *The Essence of Entropy*  
Rao • *Secrets of My Success in Graduate School*

### Fall 1988

- Arkun, Charos, Reeves • *Model Predictive Control*  
Briedis • *Technical Communications for Grad Students*  
Deshpande • *Multivariable Control Methods*  
Glandt • *Topics in Random Media*  
Ng, Gonzalez, Hu • *Biochemical Engineering*  
Goosen • *Research: Animal Cell Culture in Microcapsules*  
Teja, Schaeffer • *Research: Thermodynamics and Fluid Properties*  
Duda • *Graduation: The Beginning of Your Education*

### Fall 1987

- Amundson • *American University Graduate Work*  
DeCoursey • *Mass Transfer with Chemical Reaction*  
Takoudis • *Microelectronics Processing*  
McCready, Leighton • *Transport Phenomena*  
Seider, Ungar • *Nonlinear Systems*  
Skaates • *Polymerization Reactor Engineering*  
Edie, Dunham • *Research: Advanced Engineering Fibers*  
Allen, Petit • *Research: Unit Operations in Microgravity*  
Bartusiak, Price • *Process Modeling and Control*  
Bartholomew • *Advanced Combustion Engineering*

### Fall 1986

- Bird • *Hougen's Principles*  
Amundson • *Research Landmarks for Chemical Engineers*  
Auda • *Graduate Studies: The Middle Way*  
Jorne • *Chemical Engineering: A Crisis of Maturity*  
Stephanopoulos • *Artificial Intelligence in Process Engineering*  
Venkatasubramanian • *A Course in Artificial Intelligence in Process Engineering*  
Moo-Young • *Biochemical Engineering and Industrial Biotechnology*  
Babu, Sukanek • *The Processing of Electronic Materials*  
Datye, Smith, Williams • *Characterization of Porous Materials and Powders*  
Blackmond • *A Workshop in Graduate Education*

### Fall 1985

- Bailey, Ollis • *Biochemical Engineering Fundamentals*  
Belfort • *Separation and Recovery Processes*  
Graham, Jutan • *Teaching Time Series*  
Soong • *Polymer Processing*  
Van Zee • *Electrochemical and Corrosion Engineering*  
Radovic • *Coal Utilization and Conversion Processes*  
Shah, Hayhurst • *Molecular Sieve Technology*  
Bailie, Kono, Henry • *Fluidization*  
Kauffman • *Is Grad School Worth It?*  
Felder • *The Generic Quiz*

### Fall 1984

- Lauffenburger, et al. • *Applied Mathematics*  
Marnell • *Graduate Plant Design*  
Scamehorn • *Colloid and Surface Science*  
Shah • *Heterogeneous Catalysis with Video-Based Seminars*  
Zygourakis • *Linear Algebra*  
Bartholomew, Hecker • *Research on Catalysis*  
Converse, et al. • *Bio-Chemical Conversion of Biomass*  
Fair • *Separations Research*  
Edie • *Graduate Residency at Clemson*  
McConica • *Semiconductor Processing*  
Duda • *Misconceptions Concerning Grad School*