AUGUST 10–14

Molecular Theory and Simulation of Adsorption

P. A. Monson, *discussion leader*
Computer Simulation of Gases Sorbed in Realistic Model Pores. W. A. Steele
Application of Density Functional Theories to Adsorption of Simple Fluid Mixtures. M. L. Rosinberg
Molecular Modeling of Adsorption and Transport in Zeolite Molecular Sieves. D. N. Theodorou
Thermodynamic Theories of Adsorption of Mixtures Based on Molecular Simulations. A. L. Myers

Adsorption Separation

R. L. Albright, *discussion leader*
New Adsorbents for Air Purification. C. Chang, N. N. Li
Pressure Swing Adsorption: The Next Distillation? K. S. Knaebel
Kinetically Controlled PSA Separations: Comparison with Membrane Separations. D. M. Ruthven

Membrane Separation

B. Bikson, *discussion leader*
Olefin Separations in Ion-Exchange Membranes. R. D. Noble
Nanoparticulates, Nanocavities, and Nanospace Separation in Ceramic Membranes. M. A. Anderson

Process Models for Control of Separations Processes

J. R. Fair, *discussion leader*
Nonlinear Wave Theory for Dynamics of High-Purity Distillation Columns. Y-L. Hwang
Dynamic Behavior and Multiple Steady States in Azeotropic Distillation Sequences. M. F. Doherty
Using Tray-to-Tray Models for the Control of Distillation Columns. J. B. Riggs
Use of Steady-State and Dynamic Process Models in the Development of Process Control Strategies: An Industrial Perspective. J. J. Downs

Bioseparation

J. C. Baker, *discussion leader*
Critical Displacer Properties in Protein Displacement Chromatography. S. M. Cramer
Competitive Protein Adsorption in Large-Scale Affinity Chromatography. N-H. L. Wang
Separation and Focusing Biochemicals in Countercurrent Magnetically Stabilized, Fluidized Bed Adsorption Columns. M. A. Burns

Environmental Applications

New Separation Opportunities in Environmental Applications. G. E. Keller

New Commercial Processes

G. L. Hubred, *discussion leader*
Solvent Pulping: Promise and Performance. R. Katzen
Coupling the Separation Technologies into BHP's Resource Processes: The Engineering–Economic Dimensions. G. Rigby
Immunoaffinity Process for Production of Activated Protein C, A New Plasma-Derived Antithrombotic Agent. C. L. Orthner