This Week in Science

Editorial

Polymers: J. I. BRAUMAN

Letters


ScienceScope

Review of electromagnetic fields at EPA; freedom of information at NIH; etc.

News & Comment

The Geopolitics of Nuclear Waste
Flap Erupts Over Dioxin Meeting
U.S. Bites Greenhouse Bullet and Gags ■ Bumpy Road to a Climate Treaty
AAAS Meeting Opens With Views From the Top ■ Science and Real Politik ■ Lederman and His Critics

Briefings: World Bank Environment Fund ■ Cruising the Digital Highway ■ Proving Einstein Right (or Wrong) ■ Looking for Planets ■ Campus Drinking ■ PMA Launches Ad Campaign ■ Public Attitudes Toward Gene Splicing ■ Physicists Hurting ■ How to Win a Westinghouse

Research News

Systematics Goes Molecular
Plastics Get Oriented—and Get New Properties
Mutation Identified as a Possible Cause of Alzheimer's Disease
Transgenic Crops Get a Test in the Wild

Articles

Living Polymerization Methods: O. W. WEBSTER
DNA: A Model Compound for Solution Studies of Macromolecules: R. PECORA
Polymer-Polymer Phase Behavior: F. S. BATES
Polymer Brushes: S. T. MILNER

Research Article


Reports

Free Energy and Temperature Dependence of Electron Transfer at the Metal-Electrolyte Interface: C. E. D. CHIDSEY
Charge Separation in a Reaction Center Incorporating Bacteriochlorophyll for Photoactive Bacteriochlorophyllin: C. KRMAIER, D. GAUL, R. DEBEY, D. HOLTEN, C. C. SCHENCK
Chemical Sensors Based on Controlled-Release Polymer Systems: S. M. BARNARD AND D. R. WALT
Small-angle neutron scattering pattern obtained from a diblock copolymer after the application of an oscillatory shearing deformation. The hexagonal symmetry of the scattered neutrons derives from the long-range ordering of cylindrical microdomains (see p. 898). This issue of Science focuses on the physics and chemistry of polymers. [Data and image by K. Almdal, K. Mortensen, and F. S. Bates at the Riso National Laboratory in Denmark]