This Week in Science

Editorial

901 Remediation of Hazardous Waste Sites

Letters


ScienceScope

911 The feds produce new biotech rules; John Glenn fishes for pollution limits; etc.

News & Comment

912 NIH Gene Patents, Round Two ● The Advisory Committee Protests
914 Stormy Weather Ahead for OSI's Gallo Report
915 Truly's Dismissal Puts NASA on Autopilot
916 Stanford Faculty Tackles Overhead
917 Berlin Academicians Refuse to Go
918 AAAS 92: AAAS in Chicago: Dawn of a New Era ● Biotechnology Reaches Beyond the High-Tech West ● Do Parasites Reproduce by Clone Alone? ● A High Five From the First New World Settlers ● Plants of the Apes

Research News

922 Hope for Magnetic Storm Warnings
924 Boom and Bust at Jupiter
925 Analytical Chemists Push The Cellular Envelope
927 Briefings: Parting Blast From AIDS Official ● Catching a Virus on the Move ● Creationism Compromise ● PCR Regulations

Perspective

940 Biological Diversity: Where Is It?: S. L. Pimm and J. L. Gittleman

Articles

946 Socioeconomic Status and Psychiatric Disorders: The Causation-Selection Issue: B. P. Dohrenwend, I. Levav, P. E. Shroot, S. Schwartz, G. Naveh, B. G. Link, A. E. Skodol, A. Stueve

Research Article

959 Structural Evidence for Induced Fit as a Mechanism for Antibody-Antigen Recognition: J. M. Rini, U. Schulze-Gahmen, I. A. Wilson

Reports

966 New Mechanism of Nonequilibrium Polymer Adsorption: H. E. Johnson and S. Granick
Cover Pack ice in the marginal ice zone (MIZ) of the Southern Ocean. Springtime melting of the ice results in strong vertical stratification of the water column, which restricts phytoplankton blooms to the near-surface waters of the MIZ. This stability within the MIZ potentially restricts the growing phytoplankton to depths at which midultraviolet (UVB) irradiance has increased significantly in areas beneath the Antarctic ozone hole. See page 952. Detrimental effects of this increased UVB flux on phytoplankton productivity might propagate up the food chain. [Photo by R. C. Smith]

968 The Conformation of Fluid Membranes: Monte Carlo Simulations: D. M. Kroll and G. Gompper

971 Thermal Conductivity of Monolithic Organic Aerogels: X. Lu, M. C. Arduini-Schuster, J. Kuhn, O. Nilsson, J. Frickie, R. W. Pekala

973 Refuges as a Predictor of Parasitoid Diversity: M. E. Hochberg and B. A. Hawkins

976 Neotropical Mammals and the Myth of Amazonian Biodiversity: M. A. Mares


A Freeze-Frame View of Eukaryotic Transcription During Elongation and Capping of Nascent mRNA: J. Hagner and S. Shuman

986 Spatial Control of the Gap Gene knirps in the Drosophila Embryo by Posterior Morphogen System: M. J. Pankratz, M. Busch, M. Hoch, E. Seifert, H. Jäckle


991 Vegetal Messenger RNA Localization Directed by a 340-nucleotide RNA Sequence Element in Xenopus Oocytes: K. L. Mowry and D. A. Melton


996 Reversal of Diabetes Insipidus in Brattleboro Rats: Intrahypothalamic Injection of Vasopressin mRNA: G. F. Jirikowski, P. P. Sanna, D. Maciejewski-Lenoir, F. E. Bloom

Book Reviews

1001 Uncertainty, reviewed by M. Eckert • Darwin in Italy, J. Harvey • Vignettes: Responsibilities to Students • Books Received

Products & Materials

1009 HPLC Sample Processor • Double Syringe Pump • Basic Balance Series • Electrophoretic Protein Fractionator • Cell Culture Incubator • Light-Scattering Detectors • Degassing Systems for HPLC • Thermal Desorption System • HPFC Column Module • Time-of-Flight Mass Spectrometers • PCB Residue Test Kit • Programmable Ultrasonic Homogenizer • Liquid-Liquid Extractor • GC/MS for Toxic Air Analysis • Process Scale Columns and Gels • Freeze Dryer • Thermal Analysis System

AAAS Meetings

1012 17th Annual AAAS Colloquium on Science & Technology Policy, 16–17 April 1992, Washington, DC • Preliminary Program • Advance Registration Form • Hotel Reservation Form