This Week in Science

Surfaces

Cleanup of the Savannah River Plant: E. J. Hennelly; E. Marshall ■
Treatment of Depression: R. L. Anderson ■ Mazel Tov!; S. A. Ockner ■
Cretaceous Extinctions and Wildfires: E. Argyle; S. M. Cisowski and
M. Fuller; C. B. Officer and A. A. Ekdale; E. Anders, W. S. Wolbach,
R. S. Lewis

Regulatory Tangle Snarls Agricultural Research in the Biotechnology Arena

California to Vote on AIDS Proposition

NASA Announces a New Schedule for the Shuttle

Briefing: Mosher Sues Stanford ■ AAU Praises New Version of A-21 Rules ■
OECD Urges Case-by-Case Review for Releasing Engineered Organisms ■
Dispute Over Earthquake Engineering Center Grant Aired on Capitol Hill ■
Counting the Homeless ■ Comings and Goings ■ Orlov Hopes to Continue
Scientific, Human Rights Work in His Life Here

Mapping Orbital Effects on Climate

OTA Touts Advanced Structural Materials

Egg Laying Is for the Birds

How Cells Respond to Signals: Expanding Roles for G Proteins ■ Ion Channels:
Multiple Forms of Regulation ■ Inositol Phospholipid Metabolism and Calcium
Regulation ■ Novel Role Proposed for Insulin Action

Instrumentation and Surface Science

Quantum States and Atomic Structure of Silicon Surfaces: R. M. Tromp,
R. J. Hamers, J. E. Demuth

Atomic Arrangements at Metal Surfaces: J. R. Noonan and H. L. Davis

Electron- and Photon-Stimulated Desorption: Probes of Structure and Bonding
at Surfaces: T. E. Mady

Low-Energy Atom Scattering from Surfaces: T. Engel

Polarized Electron Probes of Magnetic Surfaces: R. J. Celotta
and D. T. Pierce

Corrosion of Electronic Materials and Devices: R. B. Comizzoli,
R. P. Frankenthal, P. C. Milner, J. D. Sinclair
COVER  The magnetic domains on the surface of an Fe–3%Si crystal as observed using the technique of scanning electron microscopy with polarization analysis. The four colors indicate four possible domain orientations corresponding to the four in-plane, easy axes of magnetization of the cubic lattice. See page 333. [Photograph by R. Freimuth and B. Young, National Bureau of Standards, Gaithersburg, MD 20899]

Reports

346  Oblique Impact: A Process for Obtaining Meteorite Samples from Other Planets: J. D. O'Keefe and T. J. Ahrens


355  An Early Event in the Interferon-Induced Transmembrane Signaling Process: W. H. Yap, T. S. Teo, Y. H. Tan

358  Central Projections of Identified, Unmyelinated (C) Afferent Fibers Innervating Mammalian Skin: Y. Sugita, C. L. Lee, E. R. Perl

361  The Little Ice Age as Recorded in the Stratigraphy of the Tropical Quelccaya Ice Cap: L. G. Thompson, E. Mosley-Thompson, W. Dansgaard, P. M. Grooves

364  Amino Acid Sequences Common to Rapidly Degraded Proteins: The PEST Hypothesis: S. Rogers, R. Wells, M. Rechsteiner

Technical Comments

369  Proteolytic Processing: D. F. Steiner; R. B. Kelly

AAAS Meetings

289  Annual Meeting: Chicago 14–18 February 1987  Advance Registration Form

370  National Forum for School Science: Forum '86: The Science Curriculum

Book Reviews


Products & Materials

375  Compact Research Laser  Multifrequency Phase, Modulation Fluorometer  Small Freezers  Fiber-Optic Illumination Systems  Automated Spectrometer  Cultured Cells Identifier Stamp  Literature
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