This Week in Science

An Overview of Overhead

An Analysis of Citation Analysis: R. C. von Borstel ■ Clean Air Act Amendments: W. G. Rosenberg ■ Evaluating Teaching: J. M. Pasachoff; W. Debler; T. D. Johnston

Vacuum vs. magnet engineers at LEP; managers vs. physicists at the SSC; etc.

NIH Finds Fraud in Cell Paper ■ Warm Praise for a Whistle-Blower ■ The Report’s Principal Conclusions

Who Found AZT Works for AIDS?

OTA Challenges Dogma on Research Funding

Slimmer Station Wins White House Approval

Suitable Creative Thinker for Rent

Better Data Needed on Sensitivity Syndrome

Ranking the Rain Forests

Déjà Vu All Over Again: Can Chimpanzees Talk?

Rising Chemical “Stars” Could Play Many Roles

“Spiral Forest” May Hold Clue to Thin-Film Superconductivity

Briefings: Brain Food! ■ A Physical Paradox ■ Psychological Risk Assessment ■ Selling the SSC to the Next Generation ■ Getting Around the Cosmic Censor ■ Environmental Prize ■ Searching for Words ■ Correction

America’s Soaring Prison Population: P. A. Langan

Chemical and Biological Microstructures as Probed by Dynamic Processes: J. M. Drake, J. Kläfter, P. Levitz

Cocaine Addiction: Psychology and Neuropsychology: F. H. Gwin

Growth Mechanism of Sputtered Films of YBa2Cu3O7 Studied by Scanning Tunneling Microscopy: M. Hawley, I. D. Raistrick, J. G. Beery, R. J. Houlton

COVER  Scanning tunneling microscope image of a high-transition temperature film of sputtered YBa$_2$Cu$_3$O$_7$ on MgO showing spiral grains with step heights of about one unit cell (12 Å). The perspective-shaded plot was generated with a computer program called SCOPE; colors represent increasing altitude from blue to red-violet. See page 1587. [Image by Melvin L. Prueitt, computer graphics group, and data by Marilyn Hawley, MST-7, Los Alamos National Laboratory]

1592  San Andreas Fault Zone Head Waves Near Parkfield, California: Y. BEN-ZION and P. MALIN

1594  Microtektites, Microkryptites, and Spinels from a Late Pliocene Asteroid Impact in the Southern Ocean: S. V. MARGOLIS, P. CLAEYS, F. T. KYE

1597  Characterization of a Human TAR RNA–Binding Protein That Activates the HIV-1 LTR: A. GATIGNOL, A. BUCKLER-WHITE, B. BERKHOUT, K.-T. JEANG

1600  In Vitro and in Vivo Consequences of VLA-2 Expression on Rhabdomyosarcoma Cells: B. M. C. CHAN, N. MATSUURA, Y. YAKADA, B. R. ZETTER, M. E. HEMLER

1603  An Immunogenic Ochreocerca volvulus Antigen: A Specific and Early Marker of Infection: E. LOBOS, N. WEISS, M. KARAM, H. R. TAYLOR, E. A. OTTESEN, T. B. NUTMAN

1605  A Multisubunit Ribozyme That Is a Catalyst of and Template for Complementary Strand RNA Synthesis: J. A. Doudna, S. Couture, J. W. SZOSTAK

1608  Adrenergic Excitation of Cutaneous Pain Receptors Induced by Peripheral Nerve Injury: J. SATO and E. R. PRL

1611  Regulation of Adhesion to ICAM-1 by the Cytoplasmic Domain of LFA-1 Integrin β Subunit: M. L. HIBBS, H. XU, S. A. STACKER, T. A. SPRINGER

1613  Permeation of Calcium Ions Through Non-NMDA Glutamate Channels in Retinal Bipolar Cells: T. A. GILBERTSON, R. SCOBEY, M. WILSON

1616  Control of Embryonic Motoneuron Survival in Vivo by Ciliary Neurotrophic Factor: R. W. OPPENHEIM, D. PREVETTE, Y. QIN-WEI, F. COLLINS, J. MACDONALD

1619  Carbamate Formation and the Neurotoxicity of L-α Amino Acids: P. B. NUNN, A. J. DAVIS, P. O'BRIEN; J. W. OLNEY, C. ZORUMSKI, M. T. PRICE, J. LABRUERE

Book Reviews

1621  Gunnar Myrdal and America’s Conscience, reviewed by K. O’S.  SEE ■ History of CERN, L. Hoddeson ■ Some Other Books of Interest ■ Books Received

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Editor's Summary

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