This Week in Science

Editorial

9 Arms and the Men

Letters


News & Comment

16 Soviets Plan Huge Linear Collider
17 Big Brother Is Counting Your Keystrokes
18 Europe Splits Over Gene Regulation
19 Indo-U.S. Vaccine Pact Disputed
20 EPA's Predicament Over Regulating Pesticides
22 Japan's Inscrutable Research Budget
23 GM Wants to Use Soviet Launchers
   Briefing: Morrison Makes TV Debut ■ Busy Signal at NSF

Research News

24 The Unmasking of Mitochondrial Eve
27 Chemical Coat Helps Semiconductor Prospects
30 A Better Fit for the Plate Tectonic Puzzle

Articles

31 Injury Litigation and Liability Dynamics: P. Huber
36 The Use of a Charge-Coupled Device for Quantitative Optical Microscopy of Biological Structures: Y. Hiraoka, J. W. Sedat, D. A. Ægard
42 Multidimensional Analysis of an Evolving Lineage: D. B. Wake and A. Larson

Research Articles

48 A Portable Signal Causing Faithful DNA Methylation de Novo in Neurospora crassa: E. U. Selker, B. C. Jensen, G. A. Richardson

Reports

58 Electromagnetic Stabilization of Weakly Conducting Fluids: C. F. Ivory, W. A. Gobie, J. B. Beckwith, R. Hergenrother, M. Malec
61 X-ray Photographs of a Solar Active Region with a Multilayer Telescope at Normal Incidence: J. H. Underwood, M. E. Bruner, B. M. Haisch, W. A. Brown, L. W. Acton
Electric power dissipation levels in a vertical slit with finite electrodes. Joule heating is greatest near the electrode tips (black semicircles) and decreases by roughly half with each color change, from blue to green to red. Temperature gradients produced by Joule heating drive unstable nature convection. The picture was generated numerically using Laplace's equation for the potential. See page 58. [William A. Gobie, Department of Chemical Engineering, Washington State University, Pullman, WA 99164]