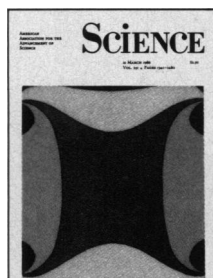


| | | |
|---------------------------|----|---|
| | 7 | This Week in <i>Science</i> |
| Editorial | 9 | Arms and the Men |
| Letters | 10 | Man on Mars: A Turnabout: N. H. HOROWITZ ■ Chernobyl Public Health Effects: G. F. LAWLESS; R. WILSON ■ Arresting Vocabulary: R. W. WRIGHT |
| News & Comment | 16 | 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 <i>Briefing:</i> 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 Insurance 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. AGARD |
| | 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 <i>Neurospora crassa</i> : E. U. SELKER, B. C. JENSEN, G. A. RICHARDSON |
| Reports | 55 | Eclipse Measurements of Io's Sodium Atmosphere: N. M. SCHNEIDER, D. M. HUNTEN, W. K. WELLS, L. M. TRAFTON |
| | 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 |

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COVER 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]

- 64 Bat Predation and Its Influence on Calling Behavior in Neotropical Katydid: J. J. BELWOOD AND G. K. MORRIS
- 67 Glycolysis Preferentially Inhibits ATP-Sensitive K⁺ Channels in Isolated Guinea Pig Cardiac Myocytes: J. N. WEISS AND S. T. LAMP
- 70 Climate and Chlorophyll a: Long-Term Trends in the Central North Pacific Ocean: E. L. VERNICK, J. A. MCGOWAN, D. R. CAYAN, T. L. HAYWARD
- 72 Trophic Stimulation of Cultured Neurons from Neonatal Rat Brain by Epidermal Growth Factor: R. S. MORRISON, H. I. KORNBLUM, F. M. LESLIE, R. A. BRADSHAW
- 75 The IL-2 Receptor β Chain (p70): Role in Mediating Signals for LAK, NK, and Proliferative Activities: J. P. SIEGEL, M. SHARON, P. L. SMITH, W. J. LEONARD
- 78 Thyroid Hormone Regulates TRH Biosynthesis in the Paraventricular Nucleus of the Rat Hypothalamus: T. P. SEGERSON, J. KAUER, H. C. WOLFE, H. MOBTAKER, P. WU, I. M. D. JACKSON, R. M. LECHAN
- 81 A Glycan-Phosphatidylinositol-Specific Phospholipase D in Human Serum: M. A. DAVITZ, D. HERELD, S. SHAK, J. KRAKOW, P. T. ENGLUND, V. NUSSENZWEIG

AAAS News

- 86 Women in Science and Engineering Is Focus of Conferences ■ PREP Prepares Volume on Theories in Population/Resources/Environment ■ Proposals and Resolutions Invited for 1988 Council Meeting ■ AAAS Travellers to India . . . ■ 1987 Forum to Look at Students and Learning Reminder for Members ■ Reminder to Members—AAAS Elections Are Under Way

AAAS Meeting

- 89 *Forum '87: Students and Science Learning* Advance Registration and Housing Form

Book Reviews

- 92 Technology and Global Industry, *reviewed by* R. E. LITAN ■ General Circulation of the Ocean, P. RHINES ■ Predation, J. D. ALLAN ■ Superstring Theory, D. Z. FREEDMAN ■ Reprints of Books Previously Reviewed ■ Books Received

Software Reviews

- 97 Sequence Analysis on Microcomputers: G. C. CANNON

Products & Materials

- 104 Mac Software Recognizes Handwriting ■ Word Processor with Document Management ■ Gradient Former for HPLC ■ Protein Sequence Analysis Software ■ Thermal Stages ■ Viscometry Software ■ Literature

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