This Week in Science

Federally Funded Research

PHS Misconduct Procedures: B. C. Hansen and K. D. Hansen
International Congress of Entomology: Another Opinion: Y. Ito and S. Masaki
Westinghouse Awards: E. D. Scheirer
Citations and Careers: J. Janick
Uhl's Defication: A. M. Shapiro

Science policy boosting at DOE; detector backbiting at the SSC; etc.

Labstyles of the Famous and Well Funded
Seventh AIDS Conference: Mostly "Fine Tuning"
Huge Eruption May Cool the Globe
Whom Do Yew Trust?
Does the Harrison Case Reveal Sexism in Math?
Funding Cutoff Threatens Thai Science
Briefings: Oil and Water
Senate Boosts SSC, Main Injector Funding
Borderless Grants
Can-do Bugs
Logger's Dismay
Can PR Cool the Greenhouse?
A Transforming Look at C60
Please Sir, $250 Million More

Untwinkling the Stars
A New Role for Gases: Neurotransmissions
Famous Monkeys Provide Surprising Results
Fire and Ice: Under the Deep-Sea Floor
How Many Genes Had to Change to Produce Corn?
A Call to Action on a Human Brain Project

Engineered Metal-Binding Proteins: Purification to Protein Folding:
F. H. Arnold and B. L. Haymore

Localization and Its Absence: A New Metallic State for Conducting Polymers:
P. Phillips and H.-L. Wu
Blood Pressure Control—Special Role of the Kidneys and Body Fluids:
A. C. Guyton

Three-Dimensional Structure of the LDL Receptor-Binding Domain of Human Apolipoprotein E:
C. Wilson, M. R. Wardell, K. H. Weisgraber,
R. W. Mahley, D. A. Agard
cover  The head of the blowfly Calliphora erythrocephala with its large compound eyes. Each eye contains about 5000 ommatidia, which provide the fly with all its information about the visual world. Because it is highly regular and easily accessible for electrophysiology, the fly visual system is widely used in the study of the fundamental aspects of neural information processing. See page 1854. [Photograph by H. L. Leerentouwer]


Reports

1829 Pressure Dependence of Superconductivity in Single-Phase K$_3$C$_6$0$_6$: G. Sparn, J. D. Thompson, S.-M. Huang, R. B. Kaner, F. Diederich, R. L. Whetten, G. Grüner, K. Holczer

1831 Environmental Patterns in the Origins of Higher Taxa: The Post-Paleozoic Fossil Record: D. Jablonski and D. J. Bottjer


1836 Development of Diapiric Structures in the Upper Mantle Due to Phase Transitions: M. Liu, D. A. Yuen, W. Zhao, S. Honda

1839 Regulation of B Cell Antigen Receptor Signal Transduction and Phosphorylation by CD45: L. B. Justement, K. S. Campbell, N. C. Chien, J. C. Cambier


1845 Subunit Communication in the Anthranilate Synthase Complex from Salmonella typhimurium: M. G. Caligiuri and R. Bauerle

1848 A Corticosteroid Receptor in Neuronal Membranes: M. Orchinik, T. F. Murray, F. L. Moore


1854 Reading a Neural Code: W. Bialek, F. Rieke, R. R. de Ruyter van Steveninck, D. Warland


Book Reviews

1863 The Surgical Solution, reviewed by J. Reed  ■ Living Fossil, J. E. McCosker  ■ Longevity, Senescence, and the Genome, T. B. L. Kirkwood  ■ Biological Mass Spectrometry, P. Williams  ■ Books Received

Products & Materials

1866 Sonic Wind System  ■ Automated Coordination Tester  ■ Medium for Peptide and Protein Separations  ■ Microbiological Decontamination Station  ■ Cellulose Acetate Electrophoresis Membranes  ■ New Version of ChiWriter  ■ Messenger RNA Purification Kit  ■ Literature

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Editor's Summary