LETTERS

Pesticide Resistance: M. J. Dover; J. K. Marquis; Heart Panel's Conclusions: D. Steinberg; C. Lenfant, B. Rifkind, I. Jacoby

EDITORIAL

A Department of Science?

ARTICLES

Perspectives on Supercomputing: B. L. Buzzbee and D. H. Sharp
Galileo, Planetary Atmospheres, and Prograde Revolution: G. D. Parker
The Agricultural Mechanization Controversy: P. L. Martin and A. L. Olmstead

NEWS AND COMMENT

Classification Dispute Stalls NOAA Program
DOD Reorganizes Management
Briefing: Army Agrees to New Study of Biowarfare Laboratory; U.S.-Soviet Academies to Resume Exchanges; New Peace Committee at NRC: A Science Primer for Freshman Legislators; Ashes to Ashes—to Orbit; China's Science Academy Revamps Funding Process
The Technological Challenge in Africa
SPARX Fly Over U.S.-German Space Venture

RESEARCH NEWS

New Technology Aids Geophysicists
Testing for Trichinosis
Geophysics Briefing: Going with the Flow; A Dash of Aluminum-26; Mating Dance of the Two-Tailed Radio Source
Zeta Particle in Question
AAAS NEWS

AAAS Program Activities Taken to Africa, China, Germany, Hungary, and Israel; SWARM to Meet in Tucson in March; For the Library; Obituaries

BOOK REVIEWS

Physique et Physiciens en France, 1918–1940, reviewed by M. J. Nye; Soviet Scientists and the State, L. L. Lubrano; The Mechanical Adaptations of Bones, A. A. Biewener; Some Other Books of Interest; Book Received

REPORTS

Pollution Monitoring of Puget Sound with Honey Bees: J. J. Bromenshenk et al.
Raman Microprobe Evidence for Lignin Orientation in the Cell Walls of Native Woody Tissue: R. H. Atalla and U. P. Agarwal
Early Biochemical Effects of an Organic Mercury Fungicide on Infants: “Dose Makes the Poison”: C. A. Gotelli et al.
Flurbiprofen: A Potent Inhibitor of Alveolar Bone Resorption in Beagles: R. C. Williams et al.
Use of Restriction Fragment Length Polymorphisms to Determine the Clonal Origin of Human Tumors: B. Vogelstein et al.
Role of Chemotaxis in Establishing a Specific Nitrogen-Fixing Cyanobacterial-Bacterial Association: H. W. Paerl and K. K. Gallucci
A Hydrophobic Transmembrane Segment at the Carboxyl Terminus of Thy-1: T. Seki et al.
The Goldfish as a Retinex Animal: D. J. Ingle
Heat Generated by the Dark-Adapted Squid Retina in Response to Light Pulses: I. Tasaki and T. Nakaye
Evidence for an Antiaphrodisiac in the Sweat Bee Lasiusglossum (Dialictus) zephyrum: P. Kukuk
Descending Efferents from the Superior Colliculus Relay Integrated Multisensory Information: M. A. Meredith and B. E. Stein

COVER

Trained goldfish approaching a familiar yellow rectangle amidst a multicolored “Mondrian” background. This Mondrian was photographed in “white light” but looks much the same to human observers when viewed in light with radically different spectral composition. The goldfish, as well as the human, recognizes familiar colors despite the dramatic spectral changes in reflected illuminant from each portion of the Mondrian. Thus, a relatively simple vertebrate demonstrates an efficient perceptual constancy that has hitherto been considered as a high-level brain function. See page 651. [J. Scarpetti and E. Gobbo, Rowland Institute for Science, Inc., Cambridge, Massachusetts 02142]
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:  http://science.sciencemag.org/content/227/4687

**Permissions**  Obtain information about reproducing this article:  http://www.sciencemag.org/about/permissions.dtl