LETTERS  Psychotherapy: Assessing Methods; H. H. Strupp; Amazon Warfare: E. B. Ross and J. B. Ross; N. A. Chagnon and R. B. Hames

EDITORIAL  The Eagle and the Bear

ARTICLES  Accreting Neutron Stars, Black Holes, and Degenerate Dwarf Stars: D. Pines
Hybrid Dysgenesis in Drosophila melanogaster; J. C. Bregliano et al.
Edison and the Pure Science Ideal in 19th-Century America: D. A. Hounshell

NEWS AND COMMENT  Science Gains Slightly in 1981 Budget
Fusion Energy in Our Time
A New Call for Abolishing the NRC
Briefing: U.S. Scientists Protest Punishment of Sakharov; No "Humane" Executions, Boston Doctors Say

RESEARCH NEWS  Explorer: Can Oil and Science Mix?
Osteoporosis: New Help for Thinning Bones

BOOK REVIEWS  General Relativity, reviewed by D. W. Sciama; Reindeer and Caribou Hunters, R. G. Klein; The Great Apes, S. Blaffer Hrdy; The Ecology of Human Development, F. D. Horowitz; Books Received
REPORTS

Nitric Oxide in Seawater: O. C. Zafiriou, M. McFarland, R. H. Bromund ....... 637
Radioactive Plume from the Three Mile Island Accident: Xenon-133 in Air at a Distance of 375 Kilometers: M. Wahlen et al. ...................... 639
Lead Isotope Identification of Sources of Galena from Some Prehistoric Indian Sites in Ontario, Canada: R. M. Farquhar and I. R. Fletcher ....... 640
Benjamin Franklin and Timothy Folger's First Printed Chart of the Gulf Stream: P. L. Richardson .......... 643
Hemoglobin Switching: A Cellular Model: B. P. Alter and S. C. Goff ....... 647
Postsynaptic Transmission Block Can Cause Terminal Sprouting of a Motor Nerve: R. L. Holland and M. C. Brown ................. 649
Angiotoxicity of Oxigenated Sterols and Possible Precursors: H. Imai et al. .... 651
γ-Glutamyl Transpeptidase in Isolated Brain Endothelial Cells: Induction by Glial Cells in vitro: L. E. DeBault and P. A. Cancilla ... 653
Electrophysiological Signs of Split-Second Decision-Making: D. L. Woods et al. .... 655
Buprenorphine Suppresses Heroin Use by Heroin Addicts: N. K. Mello and J. H. Mendelson ................. 657

Blood Gas Analyzer; Electrophoresis Cell; Nuclear Magnetic Resonance Spectrometer; Microscope; Monoclonal Antibodies; Gas Mixer; Literature .......... 670

PRODUCTS AND MATERIALS

COVER

Underwater photograph of sun illustrates color of the oceanic “blue waters” caused by selective transmission and scattering of the shorter wavelengths of sunlight. Absorption of these energetic quanta can produce detectable concentrations of free radicals. See page 637. [Anita M. Brosius, Woods Hole, Mass.]