LETTERS  NBS: Problems and Needs: F. K. Willenbrock and R. M. Davis; M. N. Alexander; Computer Encryption: Key Size: M. E. Hellman

EDITORIAL  The Leadership of the Geological Survey

ARTICLES  Suid Evolution and Correlation of African Hominid Localities: T. D. White and J. M. Harris
Raymond Lindeman and the Trophic-Dynamic Concept in Ecology: R. E. Cook
Impact of Federal Regulations at a University: D. C. Spriestersbach and W. J. Farrell

NEWS AND COMMENT  Carl Rogers: Giving People Permission to Be Themselves
The Empathic Computer
Robert Thorne: Controversial Nominee for Energy R & D Job
Issue of Technology Transfer Is Snag for 1979 U.N. Meeting

RESEARCH NEWS  The Zeeman Effect: A Unique Approach to Atomic Absorption
Amaranth: A Comeback for the Food of the Aztecs?
Bacterial Genetics: Action at a Distance on DNA

AAAS NEWS  Nairobi Conference Identifies Desertification Indicators; 1978 AAAS Annual Meeting, 12–17 February, Washington, D.C.; AAAS Travelers; Women in Scientific Research Topic of AAAS Conference; $185,000 in Grants for Project on Handicapped; Affiliate News; Marine Science Session Highlights Annual Interciencia Meeting
Two-Billion-Year Granulites in the Late Precambrian Metamorphic Basement Along the Southern Peruvian Coast: B. Dalmayrac, J. R. Lancelot, A. Lyrreloup

Cancer Mortality in U.S. Counties with Petroleum Industries: W. J. Blot et al.

Bifunctional Interconverters: Relationship of Antitumor Activity of Diacridines to the Cell Membrane: R. M. Fico, T. K. Chen, E. S. Canellakis

Synchronized Ultradian Cortisol Rhythms in Monkeys: Persistence During Corticotropin Infusion: J. W. Holaday, H. M. Martinez, B. H. Natelson

Alpha Blocking: Absence in Visuobehavioral Deprivation: J. D. Glass

Mental Set Alters Visibility of Moving Targets: R. Sekuler and K. Ball

Striatal Efferent Fibers Play a Role in Maintaining Rotational Behavior in the Rat: J. F. Marshall and U. Ungerstedt

Clockwise Growth of Neurites from Retinal Explants: A. M. Heacock and B. W. Agranoff

Behavioral History as a Determinant of the Effects of d-Amphetamine on Punished Behavior: J. E. Barrett

Neuronal Circadian Rhythm: Phase Shifting by a Protein Synthesis Inhibitor: J. W. Jacklet

Selective Destruction of Neurons by a Transmitter Agonist: R. M. Herndon and J. T. Coyle

Cortical Mechanisms That Augment or Reduce Evoked Potentials in Cats: J. H. Lukas and J. Siegel


Transplantable Pancreatic Carcinoma of the Rat: J. K. Reddy and M. S. Rao

Technical Comments: Hypertension and Nature of Stress: M. Peters; R. Friedman and J. Iwai

Individual cortisol patterns of eight chronically maintained adult rhesus monkeys; the fast-frequency ultradian rhythm is obvious to the eye. When time-series analysis was applied to these fluctuations, they were found to be synchronized among monkeys, to have a predominant periodicity of 85 to 90 minutes, and to be relatively independent of ACTH concentrations. See page 56. [Benjamin Natelson and Division of Medical Audio Visual Services, Walter Reed Army Institute of Research, Washington, D.C.].