
EDITORIAL  Not by Truth Alone

ARTICLES  Ionizing Waves of Potential Gradient: L. B. Loeb

Luminous pulses in electrical breakdown, with velocities a third that of light, have a common basis.

Circadian Rhythms in Man: J. Aschoff

A self-sustained oscillator with an inherent frequency underlies human 24-hour periodicity.

Onward the Management of Science: The Wooldridge Report: J. D. Cooper

NIH was not cleared on all counts by the Wooldridge Committee, which itself is rated low on methodology.

Scientific Research: The Case for International Support: A. A. Buzzati-Traverso

Financing of science at a supranational level is a stringent requirement for the vast majority of countries of the world.


BOOK REVIEWS  Archeology: Far Western Boreal Forest: J. M. Campbell


REPORTS  Quasi-Stellar Sources: Variation in the Radio Emission of 3C 273: W. A. Dent
Alkyl Iodide–Iodine Exchange and the Szilard-Chalmers Effect:  
_E. D. Cohen and C. N. Trumbore_ 1460

**Pseudo Supraglacial Till:**  _A. D. Howard_ 1461

Glass-Coated Tungsten Microelectrodes:  _H. A. Baldwin, S. Frenk, J. Y. Lettvin_ 1462

Holocene Submergence of the Eastern Shore of Virginia:  _W. S. Newman_  
and  _G. A. Rusnak_ 1464

Radiocarbon Age of a Nevada Mummy:  _P. C. Orr and R. Berger_ 1466

Homograft Rabbit Skin Protection by Phenothiazine Derivatives:  _Z. Eyal et al._ 1468

Plant Growth Retardant B-995: A Possible Mode of Action:  _D. J. Reed, T. C. Moore, J. D. Anderson_ 1469

Hereditary Absence of Sebaceous Glands in the Mouse:  _A. H. Gates and M. Karasek_ 1471

Paired Comparison Method for Measurement of Sugar Preference in Squirrel Monkeys:  
_**M. W. Wagner, K. F. Green, M. B. Manley**_ 1473

Nucleic Acid Polymerases: Possible Subunit Structure:  _S. Lee-Huang and L. F. Cavaliere_ 1474

DNA Synthesis in Aluminum-Treated Roots of Barley:  _M. Sampson, D. Clarkson, D. D. Davies_ 1476

Particles Resembling Papova Viruses in Human Cerebral Demyelinating Disease:  
_G. M. Zu Rhein and S.-M. Chou_ 1477

Three Dimensions in Fine Structure:  _H. C. Mitchell and J. C. Thaeuert_ 1480

Lactic Acid Metabolism in Hypertensive Patients:  _F. E. Demartini et al._ 1482

Probability-Learning by the Turtle:  _K. L. Kirk and M. E. Bitterman_ 1484

Visual Perception of Direction for Stimuli Flashed during Voluntary Saccadic Eye Movements:  
_L. Main and D. G. Pearce_ 1485

*Comments on Reports:* Warm Interstadial Interval in Wisconsin Stage of the Pleistocene:  _N. D. Newell; Sap Pressure: Addendum: P. F. Scholander_ 1488

**MEETINGS**  
Research in Patient Care:  _P. J. Sanazaro; Nucleation Phenomena: A. G. Walton_ 1489

**COVER**

Autograph of branched streamers from a positive point on the impulse potential, intercepted at progressively greater distances toward the negative plane by a transverse film. The tips of each of the branches represent an ionizing wave of positive potential gradient. The gradient propagates itself by photo-electric ionization of the air near the film. See page 1417. [E. Nasser]