Measurement of Stellar Diameters: R. H. Miller

A one-kilometer Michelson stellar interferometer is proposed for optical astronomy.

Fungus-Growing Ants: N. A. Weber

A symbiotic relationship exists between an insect and a plant, involving an effective culturing technique.

Investigating the Origins of Mesopotamian Civilization: F. Hole

An ecological approach suggests interrelated factors that may have triggered the emergence of civilization.
Mass-Yield Distribution of the Fission Products in Fallout from the 14 May 1965 Nuclear Explosion: M. N. Rao et al. ............................................. 633
Doppler Interpretation of Quasar Red Shifts: H. S. Zapolsky ...................... 635
Thyroid Hormone: Effects on Electron Transport: J. R. Bronk ......................... 638
Serum High-Density Lipoprotein: Effect of Change in Structure on Activity of Chicken Adipose Tissue Lipase: A. Scanu ........................................ 640
Immunoglobulin M Allotypes of the Rabbit: Identification of a Second Specificity: S. Sell .................................................. 641
Hemopoietic Colony-Forming Units in Regenerating Mouse Liver: Suppression by Anticoagulants: M. L. Varon and L. J. Cole .......................... 643
Subclasses of Human Immunoglobulin A Based on Differences in the Alpha Polypeptide Chains: J.-P. Vaerman and J. F. Heremans .............. 647
Acrylonitrile Polymerization in a Miniaturized High-Pressure Optical Cell: V. M. Zhulin, E. R. Lippincott, W. J. Bailey ........................................ 649
Inheritance of Reactivity to Experimental Manipulation in Mice: N. D. Henderson .......................................................... 650
High-Speed Scanning in Human Memory: S. Sternberg ................................ 652
Anxiety Levels in Dreams: Relation to Changes in Plasma Free Fatty Acids: L. A. Gottschalk et al. ........................................... 654
Binocular Disappearance of Monocular Symmetry: B. Julesz ........................................... 657
Technical Comments: Memory Transfer: W. L. Byrne et al.; Antigen-RNA Complexes: S. M. Sabesin .......................................... 658

MEETINGS

Human Population Genetics: J. N. Spuhler; Forthcoming Events ..................... 660

COVER

Autoradiograph of the rain residue collected in Japan, 20 May 1965. The residue was exposed to Kodak KK x-ray film for 6 days (23–29 November 1965). The light spots correspond to the highly radioactive particles produced in the second Chinese nuclear explosion on 14 May 1965 (about X 5). See page 633. [K. Yoshikawa, University of Arkansas]