LETTERS

EDITORIAL
Robert H. Goddard ................................................. 1639

ARTICLES
Ground-Based Astronomy: A Ten-Year Program .................. 1641
A report prepared by the Panel on Astronomical Facilities for the Committee on Science and Public Policy of the National Academy of Sciences.

Tissue Culture Studies of the Human Lymphocyte: J. H. Robbins ................. 1648
Experiments under controlled conditions provide new information on this cell's function and potentiality.

Scientific Information Exchange in Psychology: W. D. Garvey and B. C. Griffith .... 1655
The immediate dissemination of research findings is described for one science.

NEWS AND COMMENT
Oceanography: Cost-effectiveness argument—NAE: Engineers Get Their Academy—NIH: Career Awards Ended—Heart Disease, Cancer and Stroke: Some Radical Proposals ........................................ 1659

BOOK REVIEWS
The Development of Geomorphology: J. H. Mackin .......................... 1665
We Are Not Alone: The Search for Intelligent Life on Other Worlds: L. W. Fredrick; other reviews by R. C. Elderfield, R. A. Nyquist, J. V. Finch, M. L. Goldberger, S. W. Staley, G. H. Weiss, L. C. Van Atta, K. O. May........ 1666

REPORTS
Radar Observations of the Corona and Mariner II Measurements of the Flux in the Solar Wind: J. C. Brandt ....................................................... 1671

Accurate Length Measurement of Meter Bar with Helium-Neon Laser: K. D. Mielenz et al. .... 1672

SCIENCE is published weekly on Friday and on the fourth Tuesday in November by the American Association for the Advancement of Science, 1515 Massachusetts Ave., N.W. Washington, D.C. 20005. Now combined with The Scientific Monthly®. Second-class postage paid at Washington, D.C. Copyright © 1964 by the American Association for the Advancement of Science. Annual subscriptions $8.50; foreign postage, $1.50. Canadian postage, 75c; single copies, 35c. School year subscriptions: 9 months, $7; 10 months $7.50. Provide 4 weeks' notice for change of address, giving new and old address and zip numbers. Send a recent address label. SCIENCE is indexed in the Readers' Guide to Periodical Literature.
Diamond Synthesis with Bridgman Opposed-Anvil Apparatus: F. P. Bundy .......... 1673
Paleozoic Mollusk: Hyolithes: L. Marek and E. L. Yochelson ...................... 1674
Hereditary Deficiency of Serum α-Antitrypsin: F. Kueppers, W. A. Briscoe, A. G. Bearn ................. 1678
Serum Albumin: Polymorphism in Man: G. Efremov and M. Braend .................. 1679
Purine and Pyrimidines in Sediments from the Experimental Mohole: E. Rosenberg .. 1680
Allergic Encephalomyelitis: A Hyperacute Form: S. Levine and E. J. Wenk .......... 1681
Blood Vessels of the Mammalian Renal Medulla: R. K. Plakke and E. W. Pfeiffer .... 1683
Calotropin, a Cytotoxic Principle Isolated from Asclepias curassavica L.: S. M. Kupchan et al. .......... 1685
Thermoregulatory and Adaptive Behavior of Brown Adipose Tissue: R. E. Smith .... 1686
Differentiation in Fern Gametophytes Treated with Purine and Pyrimidine Analogs: V. Raghavan .................. 1690
Nervous Control of Ciliary Activity: E. Aiello and G. Guidoni ..................... 1692

MEETINGS


COVER

Patterns produced by simultaneous initiation of a thin explosive disk at eight equidistant points. Picture sequence (at 600,000 frames per second) shows expansion, collisions, and interactions of detonation wave fronts. Symmetry of the wave patterns throughout the sequence is evidence of the remarkable uniformity in both initiation timing and detonation rate of the explosive. See page 1635. [U.S. Naval Weapons Laboratory]