LETTERS
Extraterrestrial "Geology": Finding the Right Words: A. M. Jacobs;
American Research Vessel: R. R. Hinchcliffe; Testing: The Phrenological
Approach: R. E. Snow and W. F. Seibert; Massivity in Financing Research:
G. Allott; A Calculus for Journal Publishers: A. M. Russell

EDITORIAL
Water for North America .................................................. 113

ARTICLES
Observational Neutrino Astronomy: J. N. Bahcall .............................. 115
Dynamics of Epidemics of Plant Disease: J. E. Van der Plank ............ 120
Herbert Hoover, Engineer: F. E. Terman ..................................... 125
Callanish, a Scottish Stonehenge: G. S. Hawkins ............................ 127

NEWS AND COMMENT
Elliott Committee: Final Reports—Food: Microbiological Criteria—
Patents: Who Should Get Rights? .............................................. 133

BOOK REVIEWS
Potlatch, Power, and Social Structure: A. Kuhn ............................... 139
The Science and Technology of Tungsten, Tantalum, Molybdenum, Niobium, and
Their Alloys, reviewed by L. M. Kushner; other reviews by P. J. Hilton,
D. D. Dziewiatkowski, J. De Vries, R. M. Baron, W. Earle, E. W. Hanly,
A. D. Howard, G. R. Noggle, L. L. Engel, E. Luikacs ...................... 136

REPORTS
Stishovite: Synthesis by Shock Wave: P. S. De Carli and D. J. Milton .......... 144
Precipitous Continental Slopes and Considerations on the Transitional Crust:
C. Emilianii ................................................................. 146
Tritiated Water as a Tool for Ecological Field Studies: F. W. Woods and D. O'Neal .. 146
Cyanamide Formation under Primitive Earth Conditions: A. Schimpl,
R. M. Lenmon, M. Calvin .................................................... 146
Ribonucleic Acids of the Ilyanassa Embryo: J. R. Collier .................... 150
Production of Oosporein and Its Leuco Form by Basidomycete Species:
H. Takeshita and M. Anchel .................................................. 152
Pyramidal Tract: A Comparison of Two Prosimian Primates: J. A. Jane,
C. B. G. Campbell, D. Yashon .............................................. 153
Genetic Influence on Experimental Allergic Thyroiditis in Guinea Pigs: P. R. B. McMaster, E. M. Lerner, H. P. S. Mueller 157
Localization of Calcium-Accumulating Structures in Striated Muscle Fibers: L. L. Costantin, C. Franzini-Armstrong, R. J. Podolsky 158
Interference between "Sex-Ratio" Agents of Drosophila willistoni and Drosophila nebulosa: B. Sakaguchi, K. Oishi, S. Kobayashi 159
Activation Heat in Muscle: Method for Determination: C. L. Gibbs and N. V. Ricchiuti 162
Thymus: Role in Resistance to Polyoma Virus Oncogenesis: L. W. Law 164
Spore Discharge in Basidiomycetes: A Unified Theory: D. B. O. Savile 165
Glutathione as an Inducer of Feeding in Ticks: R. Galun and S. H. Kindler 166
Arbovirus Hemagglutinin Inhibitor in Acetone-Extracted Serums from Normal Chickens: P. Holden, L. C. LaMotte, R. B. Shriner 169
Transpiration and Stomatal Opening with Changes in Carbon Dioxide Content of the Air: J. E. Pallas, Jr 171
Moth Sounds and the Insect-Catching Behavior of Bats: D. C. Dunning and K. D. Roeder 173


DEPARTMENTS New Products 199

Cover Trace (made with precision depth recorder) of the foot of the North American continent east of Eleuthera Island, Bahamas. The vertical exaggeration is 12 to 1. The sloping surface (left), with an inclination of 16 degrees, is the foot of the continental slope. The flat surface to the right is that of the Blake-Bahama Abyssal Plain, which occurs here at a depth of 4825 meters. See page 145.