Editorial
Who Teaches Science? ........................................... 779

Articles
Measuring the Growth of Science: S. Dedijer ................. 781
Quantitative data on a nation's research effort provide an index for its socioeconomic development.

Are Logic and Mathematics Identical?: L. Henkin .......... 788
An old thesis of Russell's is reexamined in the light of subsequent developments in mathematical logic.

Arthur Holly Compton, Research Physicist: S. K. Allison .... 794

News and Comment
Who Runs America?—A Theory of Hidden Forces .......... 797

Book Reviews
Recent trends in the history of science are illustrated in two new books: I. B. Cohen ................................. 803

Applied Geophysics, USSR, reviewed by J. L. Soske; other reviews .......... 804

Reports
Chlamydomonas: Colored Excretion Products:
V. J. Cristofalo, L. D. Kornreich, R. R. Ronkin .............. 809

Fate of a Synthetic Polynucleotide Directing Cell-Free Protein Synthesis:
S. H. Barondes and M. W. Nirenberg
I. Characteristics of Degradation .................................. 810
II. Association with Ribosomes .................................. 813

Application of an Additive Model to Impression Formation: N. H. Anderson .......... 817

Pooled Estimates of Parent-Child Correlations in Stature from Birth to Maturity:
N. Livson, D. McNell, K. Thomas .............................. 818

X-Ray-Induced Chromosome Aberrations in the Corneal Epithelium of the Chinese Hamster: J. G. Brown ........................ 820

General Disruption Resulting from Electrical Stimulus of Ventromedial Hypothalamus:
F. B. Krasne .......................................................... 822

Antarctica: Geology of the Ellsworth Mountains: J. J. Anderson et al. .......... 824

Method of Introducing Trinitrated Thymidine into the Tissues of Hydra:
A. L. Burnett, R. Baird, F. Diehl ................................ 825

Archeological Investigations in East Central Arizona: P. S. Martin .......... 826

Electron Microscopy of Staphylococcus aureus Treated with Tetracycline:
J. H. Hash and M. C. Davies .................................. 828

Penetration of Fallout Fission Products into an Indiana Soil:
D. Telfair and J. Luetscher ....................................... 829

Catalysis by Imidazole of Deuterium-Hydrogen Exchange in Amide N-H Groups:
I. M. Klotz and B. H. Frank ................................... 830

Schistosoma mansoni: Natural Infection of Cattle in Brazil:
F. S. Barbosa, I. Barbosa, F. Arruda ............................ 831

Atmospheric Photochemical Reactions Inhibited by Iodine:
E. R. Stephens, R. H. Linnell, L. Reckner .................... 831

Departments
Several different platelet agglutinating agents may share a pathway in producing white thrombi.

Meetings: Forthcoming Events .................................. 838

New Products ...................................................... 841

Cover
Mt. Gardner, Sentinel Range, Ellsworth Mountains, Antarctica. This rock face, composed of folded quartzite strata, rises over 9000 feet above the tents in the foreground. See page 824.