Editorial
What We Know and Don't Know .......................................................... 641

Articles
Ultrasonic Absorption in Solids: T. S. Hutchison .......................... 643
How high-frequency sound is damped by imperfections in solids.

New Frontiers to Health in Africa: K. R. S. Morris ..................... 652
The creation of new, independent states in Africa poses new problems
in the eradication of disease.

Science in the News
The Atomic Airplane; Molotov Named Representative to
Atomic Agency as General Conference Opens .............................. 658

Book Reviews
F. S. C. Northrop's Philosophical Anthropology and Practical Politics,
reviewed by J. Gulick; other reviews ........................................... 664

Reports
Carbon-14 Dating with the Liquid Scintillation Counter: Total Synthesis of the
Benzene Solvent: M. A. Tamers .................................................. 668

Effects of Temperature and Anions on Titration Curves of Frog Muscle:
M. B. Engel, H. R. Catchpole, N. R. Joseph ................................ 669

Cranial Capacity of Oreopithecus bambolii: W. L. Straus, Jr., and M. A. Schön .... 670

Differential Sensitivity of Peripheral Retina to Intermittent White Light:
G. H. Mowbray and J. W. Gebhard ........................................... 672

Observing Behavior in a Vigilance Task: C. H. Baker ........................ 674

Sex Chromatin in Mammalian Bone: D. M. Vernino and D. M. Laskin .... 675

Acrylic Acid, an “Antibiotic” Principle in Phaeocystis Blooms in Antarctic
Waters: J. M. Sieburth ........................................................... 676

Completion of Meiosis in Uninseminated Eggs of Drosophila melanogaster:
W. W. Doane ........................................................................ 677

Regeneration of Hydra from the Endoderm: D. K. Normandin ............. 678

Departments
Forthcoming Events; New Products ............................................... 680

Letters from H. E. Garrett; C. F. Robinson and P. Bohannan; P. S. Miller and
R. S. Dietz .......................................................................... 685

Cover
Thiocarbamide crystal (about × 700). [L. C. Massopust, Marquette University School
of Medicine]