Editorial

Momentous Innovation .................................................. 953

Articles

Radiation Effects on the Reactivity of Solid Surfaces: W. H. Cropper ........ 955
Defects produced in solids by radiation fields can enter into chemical
reactions on the surface.

Atmospheric Concentration of Cladosporium Spores: S. Rich and P. E. Waggoner .... 962
The concentration has a peculiar diurnal cycle, and it may
either increase or decrease during rain.

News and Comment

International Atomic Energy Agency—Cold War Makes Life Frosty .......... 966

Book Reviews

Volcanoes and Their Activity, Volcanoes, The Orion Book of Volcanoes, Volcanoes
in Action, reviewed by H. Williams; other reviews .................................... 970

Reports

Endogenous Conditioning to Abnormal Cerebral Electrical Transients in Man: J. R. Stevens 974
Ribonucleic Acid in “Transformation” of Lymphoid Cells: J. A. Mannick and R. H. Egdahl 976
Biosynthesis of Coumarin and Herniarin in Lavender: S. A. Brown ............ 977
Effects of Early Perceptual Restriction on Simple Visual Discrimination: R. Melzack .......... 978
Myotonia in a Horse: S. Steinberg and S. Botelho ..................................... 979
Variable Transmission Silicate Glasses Sensitive to Sunlight: A. J. Cohen and H. L. Smith .................................................. 981
Concurrent Morphological and Chemical Events in Staphylococcus aureus Exposed to
Penicillin: J. Ciak and F. E. Hahn .................................................. 982
Changes in Permeability Induced by Victorin: H. Wheeler and H. S. Black .......... 983
Blood Groups and Splenomegaly in Chick Embryos: W. P. Jaffe and E. M. McDermid 984
Calcium and Other Ions in Blood and Skeleton of Nicaraguan Fresh-Water Shark: M. R. Urist .... 984
Continuous Culture of a Melanotic Cell Line from the Golden Hamster: G. E. Moore et al. 986
Factors Causing Seasonal Forms in Ascia monuste (Lepidoptera): R. W. Pease, Jr. ............... 987
Photoautotrophy in Gymnodinium breve Davis: D. V. Aldrich ......................... 988
Convenient Assay of Xanthine Dehydrogenase in Single Drosophila melanogaster:
E. Glassman ............................................................................ 990
Hallucinations in Sensory Deprivation—Method or Madness: E. Ziskind and T. Augsburg .... 992
New High-Pressure Polymorph of Zinc Oxide: C. H. Bates, W. B. White, R. Roy .......... 993
A Gene in Drosophila That Produces a New Chromosomal Banding Pattern:
L. Levine and L. Van Valen .................................................................. 993
Determination of the Tropospheric Residence Time of Lead-210: L. M. Fry and K. K. Menon 994

Departments

Letters from H. Black; I. J. Yetwin; A. Kent; H. W. Norton ......................... 949
Meetings: Forthcoming Events .................................................. 996

Cover

The bile acids of man. From left to right, cholic acid, deoxycholic acid, and chenode-
oxycholic acid. These acids do not exist as such in bile, but are combined in peptide
linkage with glycine or taurine. The resulting conjugated acids are excellent detergents
and have an important role in fat absorption. [Alan F. Hofmann, Department of Physio-
logical Chemistry, University of Lund, Lund, Sweden]