Editorial
The Keeper of the Gate..................................................... 721

Articles
Physiology of Flowering: J. A. D. Zeevaart ............................. 723
Flowering is hormonally controlled, but the nature of the hormone
remains to be elucidated.
Recoilless Nuclear Resonance Absorption of Gamma Radiation: R. L. Mössbauer..... 731
A new principle yields gamma lines of extreme narrowness for measurements
of unprecedented accuracy.

News and Comment
Presidential Decree Boosts Arms Agency ................................ 738

Book Reviews
Elements of Queuing Theory, Stochastic Service Systems, Queues, Introduction
to the Theory of Queues, reviewed by P. M. Morse; other reviews ............... 742

Reports
Origin of Tektites: H. C. Urey............................................... 746
Lunar Synodical Period and Widespread Precipitation: D. A. Bradley,
M. A. Woodbury, G. W. Brier............................................. 748
Lunar Component in Precipitation Data: E. E. Adderley and E. G. Bowen ......... 749
Alveolar Epithelial Cell Mitochondria as Source of the Surface-Active Lung Lining:
M. Klaus et al.......................................................... 750
Bedrock Geology of the Thiel Mountains, Antarctica: A. B. Ford and J. M. Aaron ...... 751
Electron Spin Resonance of Nitric Oxide–Hemoglobin Complexes in Solution:
K. M. Sancier, G. Freeman, J. S. Mills.................................. 752
Sterility in the Mexican Fruit Fly Caused by Chemicals: J. G. Shaw and
M. Sanchez Riviello.................................................. 754
Effects of Perceptual Training at Three Age Levels: D. Elkind, R. R. Koegler, E. Go .... 755
Nevada Test Fallout and Radioiodine in Milk: R. E. Lapp......................... 756
Anopheles leucosphyrus Identified as a Vector of Monkey Malaria in Malaya:
R. H. Wharton et al............................................................. 758
Male Sexual Behavior Induced by Intracranial Electrical Stimulation:
E. Vaughan and A. E. Fisher............................................ 758
Increase in Diffusible Auxin after Treatment with Gibberellin:
S. Kuraishi and R. M. Muir............................................. 760
Salmonella Species in Turtles: J. A. Boycott..................................... 761
Mechanism of Tissue Reconstruction by Dissociated Cells, II: Time-Course of
Events: M. S. Steinberg.................................................. 762
Utilization of Nitrogen Compounds by Unicellular Algae: E. C. Birdsey and V. H. Lynch .. 763
Interaction of Olfactory and Other Environmental Stimuli on Implantation in the
Deer Mouse: B. E. Elefteriou, F. H. Bronson, M. X. Zarrow...................... 764
Contamination of Vegetation by Tetraethyl Lead: H. L. Cannon and J. M. Bowles ........ 765
Sorbitol Translocation in Apple: K. L. Webb and J. W. A. Burley.................... 766

Departments
Meetings: International Biological Program; Forthcoming Events .................. 768
New Products........................................................................... 774

Cover
Cocklebur, Xanthium pensylvanicum. See page 723. [James McClanahan, California
Institute of Technology]