Editorial
Stanford Accelerator Again ........................................... 1737

Articles
Scientific Applications of Nuclear Explosions: G. A. Cowan .................. 1739
Nuclear explosions are uniquely necessary for a number of interesting experiments in basic research.

In Defense of Biology: B. Commoner .................................... 1745
The integrity of biology must be maintained if physics and chemistry are to be properly applied to the problems of life.

Cerebral Organization and Behavior: R. W. Sperry .......................... 1749
The split brain behaves in many respects like two separate brains, providing new research possibilities.

Science in the News
The State of the Union Message: Money for Space; Some Implications for Economics and Education ........................................ 1758

Book Reviews
D. Joravsky's Soviet Marxism and Natural Science, 1917–1932, reviewed by T. Dobzhansky; other reviews .................................... 1762

Reports
"Bioconvection Patterns" in Cultures of Free-Swimming Organisms: J. R. Platt .... 1766
Recording of Single Unit Activity in Isolated Central Nervous Tissue:
A. Ames III and B. S. Gurian ........................................... 1767
Strontium-90 and Cesium-137 in North American Milk: J. L. Kulp et al. ........ 1768
Transport of Oxygen through Hemoglobin Solutions: J. H. Wang .............. 1770
Response Latencies of Female Rats during Sexual Intercourse: G. Bermant ...... 1771
Sparing of Folic Acid by Thymidine: N. Grossowicz and F. Mandelbaum ........ 1773

Association Affairs
Pacific Division Meeting; Two New Affiliates ................................ 1774

Departments
Forthcoming Events ......................................................... 1778

Cover
Radial view of the outer bark of a 2-year-old white pine twig, fixed in osmium. The material showing is mainly bark cell wall, distorted by pressure of growth. (Electron microscope, about X 9400). [Johnson Parker, Yale University; Delbert E. Philpott, Woods Hole Marine Biological Laboratory]