LETTERS
Law of the Sea Negotiations: W. T. Burke; D. Shapley; Tetrapod Gait Patterns: R. J. Wassersug; "Ecology": A Clarification: R. P. McIntosh

EDITORIAL
Solar Power in the Middle East: D. Hayes

ARTICLES
An Intercontinental Array—A Next-Generation Radio Telescope: G. W. Swenson, Jr., and K. I. Kellermann
Spatial Configuration of Macromolecular Chains: P. J. Flory
Social Consequences of Policy Toward Mental Illness: F. N. Arnhoff

NEWS AND COMMENT
The CIA's Mail Cover: FAS Nearly Uncovered It
 XYXY: Harvard Researcher under Fire Stops Newborn Screening
 Energy and the Coastal Zone: Pulling and Hauling among the Feds
 Federal Task Force Supplies Fuel for Fluorocarbon Debate

RESEARCH NEWS
Double Radio Sources: Energetic Evidence That Galaxies Remember

BOOK REVIEWS
The Winds of Tomorrow, reviewed by R. C. Hunt; Ion Beams, B. R. Appleton; Inorganic Solids, F. A. Cotton; Sozialpolymorphismus bei Insekten, E. O. Wilson; Books Received

REPORTS
Lunar Gravity: The First Farside Map: A. J. Ferrari
Psi Particles and Dyons: J. Schwinger .......................... 1300
Picosecond Kinetics of Events Leading to Reaction Center Bacteriochlorophyll Oxidation: K. J. Kaufmann et al. ............... 1301
A Tunneling Spectroscopy Study of Molecular Degradation Due to Electron Irradiation: P. K. Hansma and M. Parikh ......... 1304
Earthquakes, Active Faults, and Geothermal Areas in the Imperial Valley, California: D. P. Hill, P. Mowinckel, L. G. Peake . 1306
HL-A LD (Lymphocyte Defined) Typing: A Rapid Assay with Primed Lymphocytes: M. J. Sheehy et al. .................. 1308
Lactosyl Ceramidosis: Normal Activity for Two Lactosyl Ceramide β-Galactosidases: D. A. Wenger et al. ................... 1310
Parasite Reproductive Strategy and Evolution of Castration of Hosts by Parasites: S. Obrebski ..................... 1314
Reciprocation of Renin Dependency with Sodium Volume Dependency in Renal Hypertension: G. Gavras et al. ............... 1316
Insulin-Unresponsive Tissues Respond to Superactive Insulin-Like Material: T. Oka and Y. J. Topper ..................... 1317
Adenosine Diphosphate Effect on Contractility of Human Muscle Actomyosin: Inhibition by Ethanol and Acetaldehyde: S. Puszkin and E. Rubin ...... 1319
Intracellular Distribution of Free Potassium in Chironomus Salivary Glands: L. G. Palmer and M. M. Civan .................. 1321
Technical Comments: BCG Inhibition of Melanoma: Specific?: G. L. Bartlett and J. W. Kreider .................. 1322

PRODUCTS AND MATERIALS

Recorder with Stimulator Module; Fluidized Bath; Miniature Portable Pyrometers; Radial Immunodiffusion Plate Viewer; Radiometer; Dissolved Oxygen Meter; Liquid Chromatograph; FORTRAN/RT-11 Software; Freezer; Literature .......... 1323

COVER

(Upper left) Three hundred-meter telescope, Max Planck Institut für Radioastronomie, Bonn, Germany; (upper right) 90-foot telescope, Owens Valley Observatory, California Institute of Technology; (center) 120-foot telescope, Vermillion River Observatory, University of Illinois; (lower left) 130-foot telescope, Owens Valley Observatory, California Institute of Technology; and (lower right) 85-foot telescope, Hat Creek Observatory, University of California, Berkeley. See page 1263. [G. W. Swenson, Jr., University of Illinois at Urbana-Champaign, Urbana]