LETTERS
Limitations of Technology: M. Engelson; G. Moeller; Fixed Combination Drugs: C. J. Stetler; C. M. Kunin; H. J. Tumen; L. Lasagna

EDITORIAL
Crises and Knowledge: J. Schmandt

ARTICLES
A Unified Procedure for the Detection of Life on Mars: R. Radmer and B. Kok
Electronic Optical Astronomy: Philosophy and Practice: E. W. Dennison
Modifying the Ionosphere with Intense Radio Waves: W. F. Utlaut and R. Cohen
WWNSS: Seismology’s Global Network of Observing Stations: J. Oliver and L. Murphy
Deep-Water Archeology: W. Bascom

NEWS AND COMMENT
Inside HEW: Women Protest Sex Discrimination
Molecular Biology: Corporate Citizenship and Potential Profit
ABM Debate: Learned Society Split by Old Grievance

RESEARCH TOPICS
Global Meteorology (I): Experiments in the Tropics

BOOK REVIEWS
The Revolt of the Engineers, reviewed by C. Rosenberg; The Pivot of the Four Quarters, reviewed by D. Pong; New Journals Received; Books Received

REPORTS
Evaporation Retardation by Monolayers: Another Mechanism: J. Wu
Methyl Mercury and Inorganic Mercury Collection by a Selective Chelating Resin: S. L. Law

BOARD OF DIRECTORS
Retiring President, Chairman

VICE PRESIDENTS AND SECTION SECRETARIES

DIVISIONS
ALASKA DIVISION
PACIFIC DIVISION
SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

REPORTS
Evaporation Retardation by Monolayers: Another Mechanism: J. Wu
Methyl Mercury and Inorganic Mercury Collection by a Selective Chelating Resin: S. L. Law

BOOK REVIEWS
The Revolt of the Engineers, reviewed by C. Rosenberg; The Pivot of the Four Quarters, reviewed by D. Pong; New Journals Received; Books Received

REPORTS
Evaporation Retardation by Monolayers: Another Mechanism: J. Wu
Methyl Mercury and Inorganic Mercury Collection by a Selective Chelating Resin: S. L. Law
Olivines: Revelation of Tracks of Charged Particles: S. Krishnaswami et al. ........................................ 287
Duricrusts and Deep-Weathering Profiles in Southwestern Wisconsin: 
G. H. Dury and J. C. Knox ................................................................. 291
Norepinephrine Stimulated Increase of Cyclic AMP Levels in Developing Mouse Brain 
Cell Cultures: N. W. Seeds and A. G. Gilman ..................................... 292
Chemoreception in Nassarius obsoletus: The Role of Specific Stimulatory Proteins: 
S. Garin and W. E. Carr ................................................................ 293
Cyclic Adenosine Monophosphate: Function in Photoreceptors: W. H. Miller, 
R. E. Gorman, M. W. Bitensky ......................................................... 295
Sex Attractant of the Codling Moth: Characterization with Electroantennogram 
Technique: W. Roelofs et al. ................................................................. 297
Circadian Rhythm: Population of Interacting Neurons: J. W. Jacklet and J. Gerominbo ...... 299
Anomalous Retinal Pathways in the Siamese Cat: An Inadequate Substrate for Normal 
Binocular Vision: R. E. Kalil, S. R. Jhaveri, W. Richards ....................... 302
Interocular Apparent Movement in Depth: A Motion Preference Effect: 
S. H. Ferris and N. Pastore .................................................................. 305
Extremely Rapid Visual Search: The Maximum Rate of Scanning Letters for the 
Presence of a Numerals: G. Sperling et al. .............................................. 307
Pineal Function in Sparrows: Circadian Rhythms and Body Temperature: 
S. Binkley, E. Kluth, M. Menaker ......................................................... 311
Color- and Edge-Sensitive Channels in the Human Visual System: Tuning for 
Orientation: R. Held and S. R. Shattuck .............................................. 314
Technical Comments: Carbon and Atmospheric Oxygen: B. Gregor; L. Van Valen; 
Reversal Potential for an Electrophysiological Event Generated by Conductance 
Changes: Mathematical Analysis: J. E. Brown, K. J. Muller, G. Murray .......... 316

Preliminary Program, AAAS Annual Meeting, Philadelphia; Energy Production from 
Nuclear Fusion: R. W. Gould; Astronomy from a Space Platform: 
G. W. Morgenhalter; 400th Anniversary of Johannes Kepler’s Birth: 
R. J. Seeger .................................................................................................. 319

ASSOCIATION AFFAIRS

One of ten elements of the ring-array antenna used for ionospheric modification experiments near Boulder, Colorado. The entire antenna occupies a circular area 110 meters in diameter. The antenna elements are crossed, conical dipoles. See page 245. [Friedrich Hoezel, National Oceanic and Atmospheric Administration, Boulder, Colorado]