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
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 obsoleteus: The Role of Specific Stimulatory Proteins:
S. Gurin 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
Anomalous Retinal Pathways in the Siamese Cat: An Inadequate Substrate for Normal
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 Numeral: 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 Electrophysiologic Event Generated by Conductance
Changes: Mathematical Analysis: J. E. Brown, K. J. Muller, G. Murray .......... 316

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

Cover
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 Hoelzl, National
Oceanic and Atmospheric Administration, Boulder, Colorado]
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/174/4006.citation

**Permissions**  Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl