LETTERS
Carbon Dioxide and Climate: S. H. Schneider, W. W. Kellogg, V. Ramanathan; C. B. Leovy; S. B. Idso; Animals in the Classroom: W. A. Moyer

EDITORIAL
Social, Economic, and Political Leadership: A. J. Harrison

ARTICLES
Anomalous Sounds from the Entry of Meteor Fireballs: C. S. L. Keay
Suckling: E. M. Blass and M. H. Teicher
Computed Medical Imaging: G. N. Hounsfield

NEWS AND COMMENT
Carter and Reagan on Defense: Rhetoric and Posturing Clothe Important Differences
Anderson Stresses Conventional Arms
Ion Generators: Old Fad, New Fashion
Why Government Should Not Fund Science
Universities Face New Accounting Rules
Campaign 80: Carter on Continuous Creation; Reagan on Intermittent Astrology
Briefing: NIH Bills: Legislators May or May Not Compromise; Frank Press in Line for Academy Presidency; Politics Embroils NSF Directorate
Imbroglio at Yale (I): Emergence of a Fraud

RESEARCH NEWS
Origin of Life: New Ingredients Suggested
New Techniques for Selective Immune Suppression Increase Transplant Odds

ANNUAL MEETING
Tours: AAAS Science Film Festival; Advance Registration, Hotel Reservation, and Air Travel Reservation Forms

AAAS NEWS
‘Focus’ Puts Science on the Radio: J. Wraith; Centennial Issue of Science
Grants Offered to Foreign Graduate Students to Attend AAAS Annual Meeting; Audio-Visual Material on Career Opportunities Available;
BOOK REVIEWS

The Engineering Drawings of Benjamin Henry Latrobe, reviewed by C. W. Condit; Microtubules, L. Wilson; The Cell Surface, M. Edidin; Experimental Determination of Stone Tool Uses, J. Kamminga; Books Received

REPORTS

Nimbus-7 Coastal Zone Color Scanner: System Description and Initial Imagery: W. A. Hovis et al.

Phytoplankton Pigments from the Nimbus-7 Coastal Zone Color Scanner: Comparisons with Surface Measurements: H. R. Gordon et al.

Atmospheric Carbon Dioxide, the Southern Oscillation, and the Weak 1975 El Niño: R. B. Baccastow et al.

Geochronology of Wadi Tushka: Lost Tributary of the Nile: C. V. Haynes

Changes in Endolymphatic Potential and Crossed Olivocochlear Bundle Stimulation After Cochlear Mechanics: D. C. Mountain

Suppression of Prolactin Secretion in Normal Young Women by 2-Hydroxyestronone: J. Fishman and D. Talchinsky

Erythroid Differentiation of Clonal Rauscher Erythroleukemia Cells in Response to Erythropoietin or Dimethyl Sulfoxide: A. J. Sytkowski et al.

Opioid Receptors Undergo Axonal Flow: W. S. Young, III et al.

Superior Colliculus: Control of Eye Movements in Neonatal Kittens: B. E. Stein, H. P. Clamann, S. J. Goldberg

Brain Events Underlying Detection and Recognition of Weak Sensory Signals: R. Parasuraman and J. Beatty

Acoustic Responses After Total Destruction of the Cochlear Receptor: Brainstem and Auditory Cortex: Y. Cazals et al.

Canopy Orientation: A New Kind of Orientation in Ants: B. Hölldobler

Long-Term Antidepressant Treatment Decreases Spiroperidol-Labeled Serotonin Receptor Binding: S. J. Peroutka and S. H. Snyder

Abolition of Optokinetic Nystagmus in the Cat: L. R. Harris et al.

Antireproductive Effects of a Potent Gonadotropin-Releasing Hormone Antagonist in the Male Rat: C. Rivier, J. Rivier, W. Vale

Excitatory and Inhibitory Effects of Opiates in the Rat Vas Deferens: A Dual Mechanism of Opiate Action: Y. F. Jacquet


COVER

Lost City fireball, peak magnitude −12, which fell in January 1970. Fireballs brighter than this occasionally produce reports of anomalous sounds heard simultaneously with their observed passage and quite distinct from the normal sonic booms heard later. The 1978 New South Wales fireball of estimated magnitude −16 produced both types of sounds. See page 11. [NASA, Washington, D.C.]