LETTERS
TM: Meditation or Sleep?: R. K. Wallace; R. R. Pagano, R. M. Rose, S. Warrenburg; Doomsday Expectations: W. E. Westman

EDITORIAL
Viking

ARTICLES
Energy Partitioning in the Products of Ionic Decomposition: J. L. Franklin
Inherited Metabolic Diseases of the Nervous System: R. O. Brady
Ecologic Dilemmas: A. Wolman

NEWS AND COMMENT
Nuclear Explosives: Technology for On-site Inspection
Cosmetic Standards: Are Pesticides Overused for Appearances Sake?
Biomedical Training: Time for a Slowdown
Energy Conservation: Congress Acts on Building Standards

RESEARCH NEWS
Coal Research (II): Gasification Faces an Uncertain Future

BOOK REVIEWS
Lowell and Mars, reviewed by D. S. Evans; Prehistoric Maritime Adaptations of the Circumpolar Zone and Maritime Adaptations of the Pacific. D. R. Harris; Control Processes in Virus Multiplication, N. P. Salzman; Microbial Drug Resistance, L. S. Baron; Molecular Aspects of Membrane Phenomena, J. E. Thompson; Books Received; Book Order Service
RESEARCH

Preliminary Results from the Viking Orbiter Imaging Experiment: M. H. Carr et al. .... 766
Infrared Thermal Mapping of the Martian Surface and Atmosphere: First Results: H. H. Kieffer et al. ................................................................. 780
Composition and Structure of the Martian Atmosphere: Preliminary Results from Viking 1: A. O. Nier et al. ................................................................. 786
Preliminary Meteorological Results on Mars from the Viking 1 Lander: S. L. Hess et al. ................................................................. 788
The Surface of Mars: The View from the Viking 1 Lander: T. A. Mutch et al. .... 791
Composition of the Atmosphere at the Surface of Mars: Detection of Argon-36 and Preliminary Analysis: T. Owen and K. Biemann ............................................. 801
Viking Lander Location and Spin Axis of Mars: Determination from Radio Tracking Data: W. H. Michael, Jr., et al. ................................................................. 803
Argon Content of the Martian Atmosphere at the Viking 1 Landing Site: Analysis by X-ray Fluorescence Spectroscopy: B. C. Clark et al. ............................................. 804
Physical Properties of the Martian Surface from the Viking 1 Lander: Preliminary Results: R. W. Shorthill et al. ................................................................. 805
The Viking Landing Sites: Selection and Certification: H. Masursky and N. L. Crabill ................................................................. 809
Radar Characteristics of Viking 1 Landing Sites: G. L. Tyler et al. ................................................................. 812

PRODUCTS AND MATERIALS

Tube Furnaces; Slide Stainer; Tissue Water Bath; Micropipets with Dual Calibration; Thyroxine Radioimmunoassay; Immersible Molecular Separators; Estriol Radioimmunoassay; Culture Chamber; Radioimmunoassay for Aminoglycoside Antibiotic; Test for Gonorrhea; Data Processing for Automatic Clinical Analyzers; Literature ................................................................. 816

COVER

Pictures, obtained by camera 1 (left) and camera 2 (right), 0.822 meter apart, provide stereo coverage of about 45 degrees in front of Viking 1 lander. The remainder of the camera 2 picture is included for its geological interest. Both images were computer-rectified to be equivalent to pictures obtained with conventional film-plane cameras. The stereo effect may be viewed by those with average interocular distances with any standard pocket stereo viewer. The apparent downward convexity toward the viewer in the foreground is a camera artifact. See page 791. [Jet Propulsion Laboratory, Pasadena, California]
Science 193 (4255), 718-818.

http://science.sciencemag.org/content/193/4255

http://www.sciencemag.org/help/reprints-and-permissions

Use of this article is subject to the Terms of Service.