LETTERS

ARTICLES
Viroids: Structure and Function: T. O. Diener 859
The Cosmic Microwave Background Radiation: R. W. Wilson 866

EDITORIAL
National Science Foundation 857

NEWS AND COMMENT
Local Option Affects U.S.-Soviet Exchanges 875
Westinghouse Sues NRC 876
Syria Said to Suppress Archeological Data 878
Withholding Medical Treatment 882
Briefing: Panel Says Synfuels Pose No CO2 Hazard, for Now; Sprinkler System Drowns Census Bureau Computers; Antinuclear Rally Surveyed. 884

RESEARCH NEWS
Brain Peptides: Is Substance P a Transmitter of Pain Signals? 886

BOOK REVIEWS
Cultural Materialism, reviewed by B. G. Trigger; Minerals, Lands, and Geology for the Common Defence and General Welfare: M. Sherwood; Stars, S. E. Strom; Bioluminescence, K. H. Nealson 890

REPORTS
The Double Quasar 0957+561: A Radio Study at 6-Centimeters Wavelength: D. H. Roberts, P. E. Greenfield, B. F. Burke 894
Market Penetration Characteristics for Energy Production and Atmospheric Carbon Dioxide Growth: J. A. Laumann 896
Water in Coal Pores: Low-Temperature Heat Capacity Behavior of the Moisture in Wyodak Coal: S. C. Mraw and D. F. Naas-O'Rourke ....... 901
Magnesium Interaction with the Surface of Calcite in Seawater: J. W. Morse et al .................................. 904
Mating Preference and the Direction of Evolution in Drosophila: T. K. Watanabe and M. Kawanishi .......... 906
Genes Coding for Histone Proteins in Man Are Located on the Distal End of the Long Arm of Chromosome?: M. E. Chandler et al. ....... 908
Temperature Dependence of ADH-Induced Water Flow and Intramembranous Particle Aggregates in Toad Bladder: W. A. Kachadorian et al. .... 910
Müllerian Duct Regression in the Embryo Correlated with Cytotoxic Activity Against Human Ovarian Cancer: P. K. Donahoe et al ........ 913
Trigeminal Ganglion Infection by Thymidine Kinase-Negative Mutants of Herpes Simplex Virus: R. B. Tenser, R. L. Miller, F. Rapp .......... 915
Digitalis Genin Activity: Side-Group Carbonyl Oxygen Position Is a MajorDeterminant: D. S. Fullerton et al. ......... 917
Photosynthetic Marine Mollusks: In vivo 14C Incorporation into Metabolites of the Sacoglossan Placocherus ocellatus: C. Ireland and P. J. Scheuer .... 922
Memory Load and Event Rate Control Sensitivity Decrement in Sustained Attention: R. Parasuraman .......... 924
Emergence of Interoceptive and Exteroceptive Control of Behavior in Rats: V. Haroutunian and B. A. Campbell .......... 927
Cognitive Deficit Caused by Regional Depletion of Dopamine in Prefrontal Cortex of Rhesus Monkey: T. J. Brozoski et al. .......... 929
Lithium Transport Across Red Cell Membrane: A Cell Membrane Abnormality in Manic-Depressive Illness: E. Dorus et al. ........ 932
Bitter Taste of Saccharin Related to the Genetic Ability to Taste the Bitter Substance 6-n-Propylthiouracil: L. M. Bartoshak ......... 934
Cytotaxins Alter the Sedimentation Behavior of Human Granulocytes: N. Catsimpoolas et al. ......... 936

Double quasar 0957+561 mapped at 6-centimeters wavelength by the Very Large Array radio interferometer. The point-source response is shown in the red box. Two unresolved sources, oriented north-south near map center, are separated by 6.1 arc seconds. These coincide with the optical images, which have been interpreted as double images of a single quasar caused by gravitational refraction by an intervening massive body. The additional radio sources in the field cause some difficulties for this hypothesis. See page 894. [D. H. Roberts et al., Massachusetts Institute of Technology, Cambridge, in cooperation with the National Radio Astronomy Observatory, Socorro, New Mexico]