LETTERS

EDITORIAL

ARTICLES
The Sun's Influence on the Earth's Atmosphere and Interplanetary Space: J. V. Evans
Steel Recycling and Energy Conservation: B. Hannon and J. R. Brodrick

NEWS AND COMMENT
A Legacy of Technical Problems
Binary Nerve Gas Production Plans Debated
The Politics of Lead
Briefing: NRC Reports on Ginna Nuclear Plant Accident; Scrap NSF, Slash NIH, Conservatives Urge; GAO Ignores Flaw in Concept of Space War; Trial Set for Louisiana's Creationist Law

RESEARCH NEWS
Nairobi Laboratory Fights More Than Disease
Portraits of a Parasite
Perfect Shuffles and Their Relation to Math
Neuroscientists Look for Theories

BOOK REVIEWS
The Scientific Basis of Health and Safety Regulation, reviewed by S. G. Hadden
The Ecology of a Salt Marsh, I. Valiela; Vertebrate Locomotion, J. L. Edwards; Glutamate, K. Krnjević; Books Received

SCIENCE is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484440) paid at Washington, D.C., and at an additional entry. Now combined with The Science Monthly®. Copyright © 1982 by the American Association for the Advancement of Science. Domestic individual membership and subscription (51 issues): $48. Domestic institutional subscription (51 issues): $65. Foreign postage extra: Canada $24, other (surface mail) $27, air-service via Amsterdam $55. First class, airmail, school-year, and student rates on request. Single copies $2.50 ($3 by mail); back issues $2 ($3 by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.
Reports

Radionuclides in Mono Lake, California: H. J. Simpson et al. .................................................. 512
Elevated Concentrations of Actinides in Mono Lake: R. F. Anderson, M. P. Bacon, P. G. Brewer ............... 514
Endemic Pleural Disease Associated with Exposure to Mixed Fibrous Dust in Turkey: A. N. Rohl et al. .................. 518
Accumulation of Airborne Polychlorinated Biphenyls in Foliage: E. H. Buckley ........................................ 520
Myoglobin Function in Exercising Skeletal Muscle: R. P. Cole ......................................................... 523
Sodium Transport Inhibition by Amiloride Reduces Basolateral Membrane Potassium Conductance in Tight Epithelia: C. W. Davis and A. L. Finn .................................................. 525
A New Tumor-Promoting Agent, Dihydroteleocidin B, Markedly Enhances Chemically Induced Malignant Cell Transformation: T. Hirakawa et al. .................................................. 527
The Molecules That Initiate Cardiac Hypertrophy Are Not Species-Specific: G. L. Hammond, Y.-K. Lai, C. L. Markert .................................................. 529
Relaxation of Isolated Gastric Smooth Muscle Cells by Vasoactive Intestinal Peptide: K. N. Bitor and G. M. Makhlof .................. 531
Current Speed and Filtration Rate Link Caddisfly Phylogeny and Distributional Patterns on a Stream Gradient: D. N. Alstad .................................................. 533
Lysergic Acid Diethylamide (LSD) and Lisuride: Differentiation of Their Neuropharmacological Actions: F. J. White and J. B. Appel .................................................. 535
Electric Pulse-Induced Fusion of 3T3 Cells in Monolayer Culture: J. Teissie et al. .................................................. 537
Computer-Generated Schematic Diagrams of Protein Structures: A. M. Lesk and K. D. Hardman .................................................. 539
Transfer of Fermentative Microbes Between Generations in a Herbivorous Lizard: K. Troyer .................................................. 540
Autoantibodies to Insulin Receptor Spontaneously Develop as Anti-Idiotypes in Mice Immunized with Insulin: Y. Shechter et al. .................................................. 542
Calcium Ionophore Polarizes Ooplasmic Segregation in Ascidian Eggs: W. R. Jeffer .................................................. 545

Cover

Village of Karain, Cappadocia, Turkey, showing "fairy castles," landforms of tuff which are excavated and used for dwellings, food, and fodder storage. Freestanding dwellings are also built of tuff dimension stone. See page 318. [A. N. Rohl, Mount Sinai School of Medicine, New York 10029]
Science 216 (4545), 462-547.