LETTERS
Weather Modification: R. A. Schlesener; S. M. Stigler; University-Industry Interaction: G. D. Cody; W. D. Compton; R. Roy

EDITORIAL
AAAS Elections, 1973: W. Bevan

ARTICLES
Earthquake Prediction: A Physical Basis: C. H. Scholz, L. R. Sykes, Y. P. Aggarwal
Miniature Eye Movement: R. M. Steinman et al.
Environmental Impact: Controlling the Overall Level: W. E. Westman and R. M. Gifford

NEWS AND COMMENT
Deepwater Parts: Issue Mixes Supertanker, Land Policy
Biomedical Research 1973: Cancer, Heart Disease, and Everything Else
The NOAA Budget: Agency's Role in Ocean Research Threatened
Biologists Need Work

RESEARCH NEWS
Insect Control (II): Hormones and Viruses

BOOK REVIEWS
Rotation of the Earth, reviewed by D. E. Smylie; Physics in the Twentieth Century, J. Ziman; Aerosols and Atmospheric Chemistry, V. A. Mohen; Stone, W. D. Keller; Proteins, F. Wold; Books Received

REPORTS
Toxic Metal Fumes from Mantle-Type Camp Lanterns: K. Griggs
Mercury in the Greenland Ice Sheet: Further Data: R. A. Carr and P. E. Wilkiss
Contemporary Phosphorites on the Continental Margin of Peru: H. H. Veek, W. C. Barnett; A. Soutar
Human Chorionic Gonadotropin: Its Possible Role in Maternal Lymphocyte Suppression: E. W. Adcock III et al. 845

Synergism of Insecticides by Herbicides: E. P. Lichtenstein, T. T. Liang, B. N. Anderegg 847

Peroxidase Mediated Antimicrobial Activities of Alveolar Macrophage Granules: B. B. Paul et al. 849

Failure of Limiting Antigen Doses to Selectively Stimulate High-Avidity Memory Cells: D. Segre and M. Segre 851


Insomnia with Sleep Apnea: A New Syndrome: C. Guilleninault, F. L. Eldridge, W. C. Dement 856


Glutamate Uptake by the Isolated Toad Brain: R. P. Shank, J. T. Whittem, C. F. Baxter 860

Male-Specific Antigen Modification of Potency by the H-2 Locus in Mice: S. S. Wachtel, D. L. Gasser, W. K. Silvers 862

Plasma Membranes: Isolation from Naturally Fused and Lysolecithin-Treated Muscle Cells: M. Reporter and D. Raveed 863

N-Acetyl-β-hexosaminidase: Role in the Degradation of Glycosaminoglycans: J. N. Thompson et al. 866

Membrane-Associated Particles: Increase at Sites of Pinocytosis Demonstrated by Freeze-Etching: L. Ori and A. Perrelet 868

Natural Abundance Carbon-13 Nuclear Magnetic Resonance Spectra of the Canine Sciatic Nerve: E. Williams et al. 869

Genetic Control of Susceptibility to Experimental Allergic Encephalomyelitis in Rats: D. L. Gasser et al. 872

Clarification of the Chemical Status of the Pink Bollworm Sex Pheromone: H. E. Hummel et al. 873

Pavlovian Conditioning with Heat Reinforcement Produces Stimulus-Directed Pecking in Chicks: E. A. Wasserman 875

Disparity Detectors in Human Depth Perception: Evidence for Directional Selectivity: D. Regan and K. I. Beverley 877

Stone decay in the industrial atmosphere of the Rhein-Ruhr; sculpture is of porous Baumberg sandstone (Upper Cretaceous) at Herten Castle near Recklinghausen, Westphalia, Germany, built in 1702. (Left) Appearance in 1908, with light to moderate damage. (Right) Appearance in 1969, showing almost complete destruction. See review of Stone, page 839. [Schmidt-Thomsen, Landesdenkmalamt, Westfalen-Lippe, Muenster, Germany]