LETTERS

EDITORIAL
Changes in Latin America

ARTICLES
BOMEX: An Appraisal of Results: R. G. Fleagle
Population and Pollution in the United States: R. G. Ridker
Politics of Academic Natural Scientists and Engineers: E. C. Ladd, Jr., and S. M. Lipset
Scientists and Surgeons: F. D. Moore

NEWS AND COMMENT
Technology in Ulster: Rubber Bullets Hit Home, Brainwashing Backfires
Katchalsky Killed in Tel Aviv
Soviet-U.S. Summit: Science Accords Open the Way to Joint Projects
Smart Bombs: Air Warfare Undergoes a Reluctant Revolution

RESEARCH NEWS
Computer-Assisted Instruction: Two Major Demonstrations

BOOK REVIEWS
Beyond Words, reviewed by K. E. Weick; Inner Speech and Thought, K. S. Harris; Influence of Hormones on the Nervous System: B. S. McEwen; Dental Morphology and Evolution, M. C. McKenna; Microtectonics along the Western Edge of the Blue Ridge, Maryland and Virginia, J. Suppe; Chemisorption and Reactions on Metallic Films, R. L. Burwell, Jr.; Electronic Processes in Non-Crystalline Materials, H. Fritzsch

REPORTS
Chilean Glacial Chronology 20,000 to 11,000 Carbon-14 Years Ago: Some Global Comparisons: J. H. Mercer
Oil Pollution: Persistence and Degradation of Spilled Fuel Oil: M. Blumer and J. Sass

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Feeding Produced in the Satiated Rat by Elevating the Concentration of Calcium in the Brain: R. D. Myers et al. ........................................... 1124
Spectral Analysis of Variations in Force during a Bar-Pressing Time Discrimination: S. C. Fowler, C. Morgenstern, J. M. Noterman ........................................... 1126
Calcium Transient in Presynaptic Terminal of Squid Giant Synapse: Detection with Aequorin: R. Llñds, J. R. Blinks, C. Nicholson ........................................... 1127
Ascent of Sap in Trees: R. C. Plumb and W. B. Bridgman ........................................... 1129
Peyote Alkaloids: Identification in the Mexican Cactus Pelecyphora aselliformis Ehrenberg: J. M. Neal et al. ........................................... 1131
Ethanol Oxidation: Effect on the Redox State of Brain in Mouse: A. K. Rawat and K. Kuriyama ........................................... 1133
Age Changes in the Neuronal Microenvironment: W. Bondareff and R. Narotzky ........................................... 1135
Cooperative Critical Thermal Transition of Potassium Accumulation in Smooth Muscle: I. L. Reisin and J. Gulati ........................................... 1137
Cooperative Thermal Effects on the Accumulation of Potassium and Sodium in Frog Muscle: J. Gulati and I. L. Reisin ........................................... 1139
DDT: Inhibition of Sodium Chloride Tolerance by the Blue-Green Alga Anacystis nidulans: J. C. Batterson, G. M. Boush, F. Matsumura ........................................... 1141
Morphine-3-Succinyl-Bovine Serum Albumin: An Immunogenic Hapten-Protein Conjugate: B. H. Wainer et al. ........................................... 1143
Crystalline Fraction I Protein: Preparation in Large Yield: P. H. Chan et al. ........................................... 1145
1,25-Dihydroxycholecalciferol: Metabolite of Vitamin D3 Active on Bone in Anephric Rats: M. F. Holick, M. Garabedian, H. F. DeLuca ........................................... 1146
Cytochalasin B Inhibits Lymphotoxin Production by Antigen-Stimulated Lymphocytes: M. Yoshinaga, B. H. Waksman, S. E. Malawista ........................................... 1147
Technical Comments: Endothelial Projections: H. Wolinsky; U. Smith ........................................... 1151

MEETINGS

Computer Experiments: P. C. Gehlen, J. R. Beeler, Jr., R. I. Jaffe; Disease Transmission by Arthropods: E. J. L. Soulsby and W. R. Harvey; Spontaneously Hypertensive Rats: S. Udenfriend and S. Spector; Forthcoming Events ........................................... 1152

COVER

Cross section of pin oak wood (about x 5.5). A column of water supported only by atmospheric pressure can be only 10.3 meters high. Since trees grow higher than this, the ascent of sap in the xylem must be due to another mechanism. Tension has been assumed to be the mechanism, but a new theory is proposed. See page 1129. [From Patterns of Life: The Unseen World of Plants; copy
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