LETTERS

Synthetic Elicitors: B. J. Castanho et al.; Mycotoxin Weapons: D. Cullen and R. W. Caldwell; H. Meiners; C. J. Mirch; Correct Attributions: N. Geschwind; Related Incidents?: K. T. Paw

EDITORIAL

The High-Technology Fix: B. C. Denny

ARTICLES

The Ediacaran Period and System: Metazoa Inherit the Earth: P. Cloud and M. F. Glaessner

Silicon-Mediated Organic Synthesis: L. A. Paquette

Cellular Transforming Genes: G. M. Cooper

NEWS AND COMMENT

White House Steps into Lead Fight

The Risks of Living Near Love Canal

How Safe Is Niagara Falls?

Briefing: Laser Wars in Court: Gould v. Bell Telephone; A-21 Rules Take Effect; A Surprise on Pesticides

British Universities in Turmoil

U.K. in Dilemma over Biotechnology

RESEARCH NEWS

Fermilab Installing Superconducting Magnets

Brookhaven Magnet Progress

Long-Awaited Decision on DNA Database

Human Skeletal Growth Factor Isolated

BOOK REVIEWS

Foraging Behavior, reviewed by D. I. Rubenstein; Insects, Experts, and the Insecticide Crisis, T. R. Dunlap; Electrons and Valence, R. H. Stuewer; Electron Transport and Photophosphorylation, W. A. Cramer; Igneous
Rocks of the British Isles, S. A. Morse; Planetary Science, M. J. Drake; Books Received ............................................ 820

REPORTS

Trace Fossils from the Athabasca Oil Sands, Alberta, Canada: S. G. Pemberton, P. D. Flach, G. D. Mossop ............................................ 825
Magnetostratigraphy of Sediments in Mammoth Cave, Kentucky: V. A. Schmidt. 827
Selenium in Reducing Waters: G. A. Cutter ............................................ 829
Organic Matter in a Coal Ball: Peat or Coal?: P. G. Hatcher et al. ............. 831
Phosphorylation of Myosin Light Chains in Mouse Fast-Twitch Muscle Associated with Reduced Actomyosin Turnover Rate: M. T. Crow and M. J. Kushmerick 835
Cardiovascular Actions of Cadmium at Environmental Exposure Levels: S. J. Kopp et al. ............................................ 837
Light-Induced Modification of Drosophila Retinal Polypeptides in vivo: H. Matsumoto, J. E. O'Tousa, W. L. Pak ............................................ 839
Leukotriene D4: A Potent Coronary Artery Vasoconstrictor Associated with Impaired Ventricular Contraction: F. Michelassi et al. ............. 841
High-Affinity Choline Transport in Proteoliposomes Derived from Rat Cortical Synaptosomes: E. M. Meyer and J. R. Cooper ............................................ 843
Endotoxin-Stimulated Opioid Peptide Secretion: Two Secretory Pools and Feedback Control in vivo: D. B. Carr et al. ............. 845
Significance of Tissue myo-Inositol Concentrations in Metabolic Regulation in Nerve: D. A. Simmons, A. I. Winegrad, D. B. Martin ............................................ 848
Anomalous Patterns in Cultured Cell Monolayers: E. M. Adler et al. ............. 851
The Carboxy Terminus of the Precursor to Vasopressin and Neurophysin: Immunocytochemistry in Rat Brain: S. J. Watson, N. G. Seidah, M. Chrétien 853
Amphetamine, Haloperidol, and Experience Interact to Affect Rate of Recovery After Motor Cortex Injury: D. M. Feeney, A. Gonzalez, W. A. Law ............................................ 855
Velocity Signals Related to Hand Movements Recorded from Red Nucleus Neurons in Monkeys: N. J. Kohlman, A. R. Gibson, J. C. Houk ............................................ 857
Brain Injury Causes a Time-Dependent Increase in Neuronotrophic Activity at the Lesion Site: M. Nieto-Sampedro et al. ............................................ 860

Ediacarian fossil, Mawsonites spriggi, from the Ediacara Member of the Rawnsey Quartzite, Pound Subgroup, Ediacara Hills, Flinders Ranges, South Australia. See page 783. [Photo of holotype by Neville Hedge, with his permission and that of the South Australian Museum, Adelaide]
Science 217 (4562), 776-861.