LETTERS


EDITORIAL

Underground Gasification of Coal

ARTICLES

Methanol: A Versatile Fuel for Immediate Use: T. B. Reed and R. M. Lerner

Ecological Aspects of Amphibian Metamorphosis: H. M. Wilbur and J. P. Collins

To Grow or Not to Grow: That's Not the Relevant Question: R. G. Ridker

NEWS AND COMMENT

1973: A Crisis Atmosphere

Energy: The Muddle at the Top

Agriculture: Rise to Prominence at Home and Abroad

Environment: A Lesson for the People of Plenty

Biomedicine: Not Exactly a Banner Year

Science Policy: Détente, L.I.D.C's Add New Dimensions

RESEARCH NEWS

1973: Research Progress on a Broad Front

Earth and Planetary Science: The Copernican Quincentenary

Biomedical Science: Immunology and Neurobiology to the Fore

Chemistry and Biochemistry: Polywater Is Buried, Hepatitis Viruses Surface

Physics and Astronomy: Unexpected Results May Require New Concepts

Materials Science: Superconductivity Heats Up

BOOK REVIEWS

Politicians, Bureaucrats, and the Consultant, reviewed by A. Wildavsky;
The Molecular Biology of Tumor Viruses, S. E. Luria
Microwave Spectrometer on the Nimbus 5 Satellite: Meteorological and Geophysical Data: D. H. Staelin et al. .......................................................... 1339
Micrometeorite Craters Discovered on Chondrule-Like Objects from Kapoeta Meteorite: D. E. Brownlee and R. S. Rajan .......................... 1341
Quantum Low-Temperature Limit of a Chemical Reaction Rate: V. I. Goldanskii, M. D. Frank-Kamenetskii, I. M. Barkalov .......................... 1344
Jupiter's Great Red Spot: A Free Atmospheric Vortex?: A. P. Ingersoll ........ 1346
Io-Accelerated Electrons: Predictions for Pioneer 10 and Pioneer 11: S. D. Shawhan et al. .......................................................... 1348
β2-Microglobulin: Association with Lymphocyte Receptors: M. L. Bach et al. ................. 1350
Aggregation of HL-A Antigens at the Lymphocyte Surface Induced by Antiserum to β2-Microglobulin: M. D. Poulik et al. ......................... 1352
Acute Lymphoblastic Leukemic Cells with T (Thymus-Derived) Lymphocyte Markers: J. H. Kersey et al. ............................................. 1355
Stimulation of Cells by Antibody: W. T. Shearer, G. W. Philpott, C. W. Parker ............ 1357
Opiate Agonists and Antagonists Discriminated by Receptor Binding in Brain: C. B. Pert, G. Pasternak, S. H. Snyder ........................................... 1359
Carboxyhemoglobin Concentrations in Blood from Donors in Chicago, Milwaukee, New York, and Los Angeles: R. D. Stewart et al. .................. 1362
Linoleic Acid Hydroperoxide: Impaired Bacterial Uptake by Alveolar Macrophages, a Mechanism of Oxidant Lung Injury: A. Khandwala and J. B. L. Gee ...................... 1364


Cover
Embryos of the salamander Ambystoma maculatum in their gelatinous envelopes. Embryos are about 9 millimeters in length. The grey cast of the matrix is due to a mutualistic alga Ophiphila amblystomatis (Chlorophyceae), which increases the survivorship and rate of development of the embryos. See page 1305. [Henry M. Wilbur, Duke University, Durham, North Carolina]