LETTERS


EDITORIAL

Nuclear Safety: Is Scientific Literacy the Answer?: R. L. Meehan ...................... 571

ARTICLES

Identifying Environmental Chemicals Causing Mutations and Cancer: B. N. Ames .......... 587

NEWS AND COMMENT

Assessing the Damage at TMI ........................................ 594
Briefing: Senior Scholars Unite; Teen-Age Pregnancies Out of Control; Justices Ponder Laetrite; A. E., R. B., and P.H. ....................................... 596
Russian Physicist Falls Foul of Bureaucracy .................................. 598
Changes in Ethics Act Benefit Scientists .................................. 599
NAS Elects New Members ........................................... 600
Peer Review Comes to ADAMHA ...................................... 601
Court Reluctantly Upholds EPA on 2,4,5-T Suspension ....................... 602

REPORTS

A Combined Irradiance-Transmittance Solar Spectrum and Its Application to Photovoltaic Efficiency Calculations: P. J. Ireland et al. ....................... 611

BOOK REVIEWS

The New Solar Physics, reviewed by R. Howard; Planetary Nebulae, E. J. Wampler; Ecology of Freshwater Fish Production, E. E. Werner; The Evolutionary Ecology of Animal Migration, H. Dingle; Books Received ..................... 607

SCIENCE

Volume 204, No. 4393
11 May 1979

LETTERS


EDITORIAL

Nuclear Safety: Is Scientific Literacy the Answer?: R. L. Meehan ...................... 571

ARTICLES

Identifying Environmental Chemicals Causing Mutations and Cancer: B. N. Ames .......... 587

NEWS AND COMMENT

Assessing the Damage at TMI ........................................ 594
Briefing: Senior Scholars Unite; Teen-Age Pregnancies Out of Control; Justices Ponder Laetrite; A. E., R. B., and P.H. ....................................... 596
Russian Physicist Falls Foul of Bureaucracy .................................. 598
Changes in Ethics Act Benefit Scientists .................................. 599
NAS Elects New Members ........................................... 600
Peer Review Comes to ADAMHA ...................................... 601
Court Reluctantly Upholds EPA on 2,4,5-T Suspension ....................... 602

RESEARCH NEWS

Geologic Disposal of Nuclear Wastes: Salt’s Lead Is Challenged ....................... 603

BOOK REVIEWS

The New Solar Physics, reviewed by R. Howard; Planetary Nebulae, E. J. Wampler; Ecology of Freshwater Fish Production, E. E. Werner; The Evolutionary Ecology of Animal Migration, H. Dingle; Books Received ..................... 607

REPORTS

A Combined Irradiance-Transmittance Solar Spectrum and Its Application to Photovoltaic Efficiency Calculations: P. J. Ireland et al. ....................... 611

ARD OF DIRECTORS

EDWARD E. DAVID, JR., Retiring President, Chairman
KENNETH E. BOULDING
FREDERICK MOSTELLER, President-Elect
ELOISE E. CLARK
MARTIN M. CUMMINGS
RENEE C. FOX
ANNA J. HARRISON

ASTRONOMY (D)
PETER S. CUNLIFF
DONALD G. WENTZEL

AIRMEN AND CREATURES OF AS SECTIONS

MATHEMATICS (A)
GARRETT BIRKHOFF
RONALD GRAHAM

PHYSICS (B)
ARTHUR L. SCHWAB
ROLF M. SINCLAIR

SOCIAL AND ECONOMIC SCIENCES (K)
DAVID L. SILLS
GILLIAN LINDSLEY

PHARMACEUTICAL SCIENCES (S)
SAMUEL ELKIN
ROBERT A. WISE

HISTORY AND PHILOSOPHY OF SCIENCE (L)
MEVIN KRAUZBERG
DIANA L. HALL

INFORMATION, COMPUTING, AND COMMUNICATION (T)
MARY E. CORNING
MADELINE M. HENDERSON

ENGINEERING (M)
DANIEL C. DRUCKER
DONALD E. MARLOWE

PSYCHOLOGY (J)
FRANCES K. GRAHAM
MERRISS P. CRAWFORD

EDUCATION (Q)
FLETCHER G. WATSON
JAMES T. ROBINSON

DENTISTRY (R)
CARL J. WILKOP, JR.
HAROLD M. FULLER

PHARMACEUTICAL SCIENCES (S)
SAMUEL ELKIN
ROBERT A. WISE

RESEARCH NEWS

Geologic Disposal of Nuclear Wastes: Salt’s Lead Is Challenged ....................... 603

BOOK REVIEWS

The New Solar Physics, reviewed by R. Howard; Planetary Nebulae, E. J. Wampler; Ecology of Freshwater Fish Production, E. E. Werner; The Evolutionary Ecology of Animal Migration, H. Dingle; Books Received ..................... 607

REPORTS

A Combined Irradiance-Transmittance Solar Spectrum and Its Application to Photovoltaic Efficiency Calculations: P. J. Ireland et al. ....................... 611

Downloaded from http://science.sciencemag.org on April 13, 2017
Galápagos Hydrothermal Mounds: Stratigraphy and Chemistry Revealed by Deep-Sea Drilling: J. H. Natlend et al. .............................................................. 613
Late Wisconsinan Sea Levels on the Southeast U.S. Atlantic Shelf Based on In-Place Shoreline Indicators: B. W. Blackwelder, O. H. Pilkey, J. D. Howard .................................................. 618
Nitrogen-Fixing Anabaena: Physiological Adaptations Instrumental in Maintaining Surface Blooms: H. W. Paerl and P. E. Kellar ........................................... 620
Nanosecond X-ray Diffraction from Biological Samples with a Laser-Produced Plasma Source: R. D. Frankel and J. M. Forsyth .............................................. 622
Hydroxylase Cofactor Activity in Cerebrospinal Fluid of Normal Subjects and Patients with Parkinson’s Disease: W. Lovenberg et al. ............................................. 624
Local Cerebral Glucose Metabolism During Controlled Hypoxemia in Rats: W. A. Pulsonelli and T. E. Duffy ................................................................. 626
Clomid Administration to Pregnant Rats Causes Abnormalities of the Reproductive Tract in Offspring and Mothers: S. McCormack and J. H. Clark .................................. 629
Inhibition of Mast Cell Histamine Secretion by N-Substituted Derivatives of Phosphatidylserine: T. W. Martin and D. Lagunoff .................................................. 631
Neurotoxic Fragrance Produces Cerebral and Myelin Disease: P. S. Spencer et al. .............................................................................................................. 633
Sites of Transition Between Functional Systemic and Cerebral Arteries of Rabbits Occur at Embryological Junctional Sites: J. A. Bevan ........................................ 635
Gene Exchange and Natural Selection Cause Bacillus subtilis to Evolve in Soil Culture: J. B. Graham and C. A. Istock ......................................................... 637
Tectorial Membrane: A Possible Effect on Frequency Analysis in the Cochlea: J. J. Zwislocki and E. J. Kleitsky ................................................................. 639
Hippocampal Afterdischarges: Differential Spread of Activity Shown by the [14C]Deoxyglucose Technique: M. Klion and C. E. Poletti ........................................ 641
Brain Grafts Reduce Motor Abnormalities Produced by Destruction of Nigrostriatal Dopamine System: M. J. Perlto et al. ......................................................... 643
Technical Comments: Human Serum Fucosyltransferase and Tumor Therapy: D. Kessel; C. H. Bauer ................................................................. 647

PRODUCTS AND MATERIALS

Water Bath; Scientific Calculators; Ultracentrifuges; Centrifuge; Combination Light and Electron Microscope; Barrier-Free Science Station; Literature .................................................. 648

COVER

A musk fragrance that the cosmetics industry has voluntarily withdrawn from all cosmetic preparations on the market causes a blue discoloration of the nervous system of rats when it is applied repeatedly to the skin. See page 633. [Stephen Shepherd, Silver Spring, Maryland]