LETTERS

Public Confidence in Science: C. Z. Nunn; Understanding Science: G. W. Tressel; Familiar “Analysis”: G. Rosegger; N. G. Anderson

EDITORIAL

Circum-Pacific Energy and Mineral Resources

ARTICLES

Trilobites and the Origin of Arthropods: J. L. Cisne
Skin Lipids: Their Biochemical Uniqueness: N. Nicolaides
A Policy for Investment in Biomedical Research: D. R. Challoner

NEWS AND COMMENT

Pollution and Public Health: Taconite Case Poses Major Test
“Excessive Bureaucracy” Found in R & D at EPA
Strategic Weapons Policy: CED Urges Stronger Hand for Congress

RESEARCH NEWS

The 1974 Fields Medals (1): An Algebraic Geometer
Rous Sarcoma Virus: A New Role for Transfer RNA
Element 106: Soviet and American Claims in Muted Conflict

BOOK REVIEWS

Woman, Culture, and Society reviewed by N. L. Gonzalez; Particle-Interaction Physics at High Energies and Hadron Physics at Very High Energies, J. D. Jackson; Philosophy of Biological Science, S. J. Gould; Books Received
REPORTS

Rod and Cone Pathways in the Inner Plexiform Layer of Cat Retina:
H. Kolb and E. V. Famiglietti ........................................ 47

Earthquakes and the Rotation of the Earth: D. L. Anderson ........... 49

Thermal Blanketing: A Case for Aerosol-Induced Climatic Alteration: S. B. Idso .... 50

The Spiral Interplanetary Magnetic Field: A Polarity and Sunspot Cycle Variation:
L. Svalgaard and J. M. Wilcox ........................................ 51

Phosphate Release and Sorption by Soils and Sediments: Effect of Aerobic and
Anaerobic Conditions: W. H. Patrick, Jr., and R. A. Khalid ........... 53

Serum Globulin in Myasthenia Gravis: Inhibition of α-Bungarotoxin Binding to

Urea Tolerance as a Molecular Adaptation of Elasmobranch Hemoglobins:
J. Bonaventura, C. Bonaventura, B. Sullivan ............................ 57

Methionine Adenosyltransferase Deficiency: New Enzymatic Defect Associated
with Hypermethioninemia: G. E. Gaul and H. H. Tallan .................. 59

Human Chromosome 21 Dosage: Effect on the Expression of the Interferon
Induced Antiviral State: Y. H. Tan et al. ............................... 61

Morphine and Ethanol: Selective Depletion of Regional Brain Calcium:
D. H. Ross, M. A. Medina, H. L. Cardenas .............................. 63

Technical Comments: More on Seasonal Variations in Goldfish Learning:
B. W. Agranoff and R. E. Davis ........................................... 65

MEETINGS

Pulsar Radiation Mechanisms: What Are the Critical Experiments?:
R. N. Manchester ......................................................... 66

COVER

Freshly captured clearnose skate (Raja eglanteria). Hemoglobins from
this and other elasmobranch species show molecular adaptations to the
high concentrations of urea normally found in their blood. See page 57.
[Ken Susman and Tom Fisher, Duke University Marine Laboratory, Beaufort, North Carolina]