LETTERS
Max Born: Another Impression: G. V. R. Born; Two-Career Job Hunting: C. T. Walbridge; Nuclear Accident: W. A. Lochstet; Phenacetin Studies: J. B. Vaught and C. M. King.

EDITORIAL

ARTICLES
The 46° Halo and Its Arcs: R. G. Greenler et al.

NEWS AND COMMENT
Recombinant DNA: Warming Up for Big Payoff.
Supreme Court to Say if Life Is Patentable.
New Strength in the Diet-Disease Link?
Crick Looks Back on DNA.
Briefing: RFF Back on Its Feet; Nevada Closes Low-Level Radioactive Waste Dump; Helms and Colby Clash on Sharing CIA Data; Harvard Medicine Takes a Lesson from Dalai Lama.

RESEARCH NEWS
Is a Diamond Really Forever?
What Is Unified in Unified Field Theories.

BOOK REVIEWS
The Visible College, reviewed by A. Thackray; Disturbing the Universe, G. B. Field; Dynamics of the Solar System, J. D. Muholland; Aspects of Diagenesis, D. L. Graf; Asbestos and Disease, D. H. Wegman; Books Received.

REPORTS
Experimental Coarsening of Antiphase Domains in a Silicate Mineral:  
M. A. Carpenter .................................................. 681

Carbon-14 Dating of Small Samples by Proportional Counting: G. Harbottle,  
E. V. Sayre, R. W. Stoenner .................................. 683

Chrysotile Asbestos in a California Recreational Area: W. C. Cooper et al. . 685

Fossil Counterparts of Giant Penguins from the North Pacific: S. L. Olson and  
Y. Hasegawa ....................................................... 688

Angular Invariants in Developing Human Mandibles: R. L. Webber and H. Blum . 689

A New Mineralized Layer in the Hinge of the Oyster: M. R. Carrick and  
R. E. Palmer ...................................................... 691

*Xenopus* Liver: Ontogeny of Estrogen Responsiveness: J. K. Skipper and  
T. H. Hamilton ................................................ 693

Phase Resetting and Annihilation of Pacemaker Activity in Cardiac Tissue:  
J. Jalife and C. Antzelevitch .................................. 695

Lectin-Induced Mucus Release in the Urn Cell Complex of the Marine Invertebrate  
*Spinulus nudus* (Linnaeus); S. V. Nicosia .................. 698

Calcium Dependence of Toxic Cell Death: A Final Common Pathway:  
F. A. X. Schanne et al. ........................................ 700

Rapid Killing of Single Neurons by Irradiation of Intracellularly Injected Dye:  
J. P. Miller and A. I. Selverston ................................ 702

Monocular Light Exclusion for a Period of Days Reduces Directional Sensitivity  

Microsecond Sensitivity of the Human Visual System to Irregular Flicker:  
A. L. Diamond .................................................. 708

Phase Advance of the Circadian Sleep-Wake Cycle as an Antidepressant:  
T. A. Wehr et al. ................................................ 710

Functional Organization of Lateral Geniculate Cells Following Removal of  
Visual Cortex in the Newborn Kitten: E. H. Murphy and R. Kalil ................ 713

Molecular Microanalysis of Pathological Specimens in situ with a Laser-Raman  
Microscope: J. L. Abraham and E. S. Etz ...................... 716

**PRODUCTS AND MATERIALS**

| HPLC Column Packer; Densitometer and Spotter for Thin-Layer Chromatography;  |
| Scanning Electron Microscope; Ventilator for Small Animals; Gel  |
| Electrophoresis System; Immunoreagents; Automated HPLC; Literature ........ 720 |

**COVER**

Reconstruction of the largest species in  
the fossil family Plotopteridae, shown  
to scale with the outline of the largest  
living penguin. These giant seabirds  
habited the North Pacific about 30  
 million years ago. They were flightless  
and had paddle-like wings similar to  
penguins, but belong to the unrelated  
order Pelecaniformes. See page 688. [B. Dal-  
zell, Rockville, Maryland]