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Coping with the Information Explosion

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Automation of Steroid Analysis: I. E. Bush
Direct photometric scanning of thin-media chromatograms can be both accurate and very rapid.

The Semiconductor Revolution in Nuclear Radiation Counting: J. M. Hollander and I. Perlman
Applications of nuclear radiation have entered a new era with the advent of germanium and silicon counters.

Detection and Measurement of Pesticide Residues: D. J. Lisk
Gas chromatographs with selective detectors have streamlined analysis.

Zonal Centrifuges and Other Separation Systems: N. G. Anderson
New methods are being developed at Oak Ridge for fractionating human cells.

Image Tubes in Astronomy: W. A. Baum

Restoration of Photographs by Neutron Activation: E. Ostroff
A remnant trace of image silver and relative freedom from halogens and other silver are required.

Detection of Relativistic Particles: L. C. L. Yuan
The Smale Case—Jitters at NSF and Berkeley; Scientists-Astronauts—Applicants Sought; Grand Canyon Dams—Interior To Review Alternatives; Kennedy School—Promoting Public Service

Science as a Social System: N. Kaplan

The Electron Microprobe, reviewed by H. Yakowitz; other reviews by D. A. Skoog, C. E. Miller, E. H. Cordes, P. A. Wilks, Jr.; New Books;

A Braille-Reading Machine: A. P. Grunwald

Turbulent Gas Chromatography: J. C. Giddings, W. A. Manwaring, M. N. Myers

Silicone Rubber: A New Diffusion Property Useful for General Anesthesia:

Oxygen Consumption of a Flying Bird: V. A. Tucker

A Disulfide-Linked Collagenous Protein of Nematocyst Capsules:

Pholidostrophiid Brachiopods: Origin of the Nacreous Luster:

Sterilization by Electrohydraulic Treatment: M. Allen and K. Soike

Disinhibition of Visually Masked Stimuli: D. N. Robinson

Grizzly Bear Skull: Site of a Find near Lake Simcoe: W. M. Tovell and R. E. Deane

Technical Comments: Random Light and Wheel Running: C. Heckrotte;

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D. L. Holmquest, K. Retiene, H. S. Lipscomb

The shell of the Devonian brachiopod, Pholidostrophia nacre (Hall), has a layered, crossed, lamellar structure. The calcite needles in each layer commonly indent one another and produce a surface that is an optical diffraction grating; hence the shell has a pseudonacreous luster (× approximately 710). See page 153. [K. M. Towe and C. W. Harper, Jr., Smithsonian Institution]
Editor's Summary

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