
EDITORIAL: Coping with the Information Explosion

ARTICLES: 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
NEWS AND COMMENT

The Smale Case—Jitters at NSF and Berkeley; Scientists-Astronauts—Applicants Sought; Grand Canyon Dams—Interior To Review Alternatives; Kennedy School—Promoting Public Service

BOOK REVIEWS

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; Reprints; Conferences and Symposium Reports

REPORTS

A Braille-Reading Machine: A. P. Grulnwald

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


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

A Disulfide-Linked Collagenous Protein of Nematocyst Capsules: R. Blanquet and H. M. Lenhoff


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

COVER

The shell of the Devonian brachiopod, Pholidostrophia nacrae (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 (x approximately 710). See page 153. [K. M. Towe and C. W. Harper, Jr., Smithsonian Institution]