
EDITORIAL  Fruit from the Tree of Knowledge

ARTICLES  Primordial Rare Gases in Meteorites: R. O. Pepin and P. Signer

RESPIRATORY CHAINS AND SITES OF COUPLED PHOSPHORYLATION: A. F. Brodie and J. Adelson

Social Facilitation: R. B. Zajonc

The Rise and Fall of Lysenko: E. W. Caspari and R. E. Marshak


BOOK REVIEWS  Chromosome Organization: A. Lima-de-Faria

The Dynamics of Real Gases, reviewed by R. D. Present; other reviews by M. McFee, W. P. Jencks, M. W. Friedlander, H. M. Patt, F. C. Howell, H. Faul, F. Eisenberg, Jr., J. Gilluly, P. Phillipson

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**COVER**

Fossil gastropod shells and coral ranging in age from Pleistocene to Eocene.

The fossils are so well preserved that the biogenic aragonite (CaCO₃) is not
significantly recrystallized to the stable polymorph calcite. Uranium contents
of these shells can exceed 10 parts per million. Absolute ages of such
shells can be determined from the accumulation of helium-4, or from
the relation of thorium-230 activity to transient equilibrium with uranium-
234. See page 312. [Brookhaven National Laboratory]