LETTERS
Photovoltaics: R. H. Annan; C. Norman; Of State Taxes and Schools of Engineering: G. Paulson; Anthropros and Ursus: L. X. Finegold

EDITORIAL
Philip Hauge Abelson

ARTICLES
A New Role for DNA Virus Early Proteins in Viral Carcinogenesis: A. M. Lewis, Jr., and J. L. Cook

The 1984 Nobel Prize in Economics: P. A. Samuelson

A Mammalian Host-Vector System That Regulates Expression and Amplification of Transfected Genes by Temperature Induction: D. C. Rio, S. G. Clark, R. Tjian

Discovery of New Variable Radio Sources in the Nucleus of the Nearby Galaxy Messier 82: P. P. Kronberg and R. A. Sramek

NEWS AND COMMENT
Pentagon Decision-Making Comes Under Fire

Troubles Plague Polish Physicists

Global Energy Study Under Fire

Zeolites Catalyze Patent Dispute

Briefing: Two Chilean Professors Released; Scientific Boycott Proposed to Aid Refugees; VA Re-considers Twin Study; Psychologist's Suit Dismissed; Three Sites Short-Listed for Nuclear Waste Dump; AID Turns Down IPPF; Comings and Goings

NSF Readies New Engineering Program

Europeans Adopt R&D Plan

RESEARCH NEWS
Heart Panel's Conclusions Questioned

Geophysics Briefing: Old Faithful Not So Faithful Anymore; Prospects for Short-Term Earthquake Prediction; Seismic Reflections from the Deep Mantle; Caldera Watching Continues Here and Abroad; Strontium Isotope Dating Achieves Useful Precision

More Than a Planet, Almost a Star
1984 Election Results; Membership Dues Increase; Proposals and Resolutions Invited for 1985 Council Meeting; Reminder—Help AAAS Membership Office Stop Repetition; Grants to Self-Sponsored Foreign Graduate Students to Attend 10th AAAS R&D Colloquium

Book Reviews

Forces of Production, reviewed by D. Brody; Materials Science of the Earth's Interior, D. J. Weidner; Pyroclastic Rocks, D. W. Peterson; Wastes in the Ocean, G. Needle; Books Received

Reports

Transformation of Amorphous Calcium Phosphate to Crystalline Dahllite in the Radular Teeth of Chitons: H. A. Lowenstam and S. Weiner

Amazon Rain-Forest Fires: R. L. Sanford, Jr., et al.


 Deepest Known Plant Life Discovered on an Uncharted Seamount: M. M. Littler et al.

Speciation and Stasis in Marine Ostracoda: Climatic Modulation of Evolution: T. M. Cronin

Direct Imaging of Live Human Platelets by Flash X-ray Microscopy: R. Feder et al.

Two Distinct Populations of Calcium Channels in a Clonal Line of Pituitary Cells: C. M. Armstrong and D. R. Matteson

Peroxisomal Defects in Neonatal-Onset and X-Linked Adrenoleukodystrophies: S. Goldfischer et al.

Abrupt Induction of a Membrane Digestive Enzyme by Its Intraintestinal Substrate: A. M. Reisenauer and G. M. Gray

Enzyme Regulation in a Trypanosomatid: Effect of Purine Starvation on Levels of 3'-Nucleotidase Activity: M. Gottlieb


Technical Comments: Crystalline Form of Native Celluloses: J. J. Hebert; R. H. Atalla and D. L. VanderHart

Cover

Microscopic image of a fully hydrated and live human platelet obtained by x-rays. A freshly prepared platelet suspension was exposed to a flash x-ray source of high intensity which produced a bas-relief impression on a photon-sensitive resist. The latter was examined by scanning electron microscopy. The live platelet was in a state of activation. Intracellular organelles are seen here contracted in one core of photon-dense material from which pseudopods originate. See page 63. [Photo digitizing by A. Appel and A. Stein, IBM, Yorktown Heights, New York 10598; image produced with Maxwell Laboratories Low Energy X-ray Illumination Source, San Diego, California 92123]