LETTERS
Melatonin and Puberty: D. C. Klein

EDITORIAL
The Cultures of Science and Technology: J. J. Baruch

ARTICLES
Four Years of Reagan Science Policy: Notable Shifts in Priorities: G. A. Keyworth, II
Early Results from the Infrared Astronomical Satellite: G. Neugebauer et al.
Drug and Neurotransmitter Receptors in the Brain: S. H. Snyder

NEWS AND COMMENT
Weapons Bureaucracy Spurns Star Wars Goal
Star Wars Panels Highlight Uncertainties
Stanford Investigates Plagiarism Charge
Briefing: Bill Proposes Added Review of Animal Research; FDA Resurrects Top Science Office; Landsat Sale Nears Resolution
Writing Engineering’s Ticket at NSF
Do Tax Credits for R & D Work?

RESEARCH NEWS
The 1984 Pittsburgh Conference: A Special Instrumentation Report
Personal Computers Attract Lab Software
Instrument Highlights: Ultrahigh Sensitivity from GC-IR; A New Library for GC Unknowns; Why Buy When You Can Rent?: Superfast Time-Resolved Optical Spectroscopy
Technical Publishing Workstation
Automating Wet Chemistry with FIA
A New Dimension in NMR

AAAS NEWS
Within the Community of Scientists: S. M. Malcom; Black Engineers; Evolution/Creation Book Published; Amendment to AAAS Constitution; Interciencia Begins Network of Biotechnology in the Americas

BOARD OF DIRECTORS
E. MARGARET BURBIDGE
Retiring President, Chairman

ANNA J. HARRISON
President

DAVID A. HAMBURG
President-Elect

ROBERT W. BERLINER
LAWRENCE BOGORD
NANCIE L. GONZALEZ
WALTER E. MASSEY

CHAIRMEN AND SECRETARIES OF AAAS SECTIONS
MATHEMATICS (A)
Lipman Bers
Lynn Arthur Steen

PHYSICS (B)
James A. Krumhansl
Rolf M. Sinclair

CHEMISTRY (C)
Murray Goodman
William L. Jolly

ASTRONOMY (D)
Paul W. Hodge
Donat G. Wenzel

PHYSICAL SCIENCES (E)
Kenneth J. Arrow
David L. Sills

ENGINEERING (M)
Eric A. Walker
W. Edward Lear

INFORMATION, COMPUTING, AND COMMUNICATION
Robert Lee Canham
Madeline M. Henderson

DIVISIONS
ARCTIC DIVISION
John Davies
President

PACIFIC DIVISION
Gunter E. Weller
Executive Secretary

SOUTHWESTERN AND ROCKY MOUNTAIN DIV.
Barbara Wright
President

Executive Director

Executive Director

Executive Office

Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484480) paid at Washington, D.C., and at an additional entry. Now combined with The Scientific Monthly’s Copyright © 1984 by the American Association for the Advancement of Science, domestic individual membership and subscription (12 issues): $53. Domestic institutional subscription (12 issues): $90. Foreign postage extra: Canada 32¢; other (surface mail) $27; airmail via Amsterdam $65. First class, airmail, school-year, and student rates on request. Single copies $25.00 ($35.00 by mail); back issues $35.00 ($50.00 by mail); biotechnology issue, $5 ($5.00 by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/84 $1.00.
BOOK REVIEWS

Single-Channel Recording, reviewed by J. W. Moore; Deep-Sea Biology, A. L. Rice; Molecular Biology of Fibrinogen and Fibrin, N. U. Bang; Crustacean Phylogeny, T. E. Bowman; Books Received ............................................. 50

REPORTS

Detectability of Supernova Neutrinos with an Existing Proton Decay Detector: J. M. LoSecco .......................................................... 56
Major Carbon-14 Deficiency in Modern Snail Shells from Southern Nevada Springs: A. C. Riggs .......................................................... 58
Enhanced Atmospheric Circulation over North America During the Early Holocene: Evidence from Lake Superior: J. D. Halfman and T. C. Johnson .......................................................... 61
Precipitation of Sulfide Ores and Organic Matter: Sulfate Reactions at Pine Point, Canada: T. G. Powell and R. W. Macqueen ............................................. 63
Polyene Toxicity in Renal Medulla: Injury Mediated by Transport Activity: M. Brezis et al. .......................................................... 66
Haploid Expression of a Mouse Testis α-Tubulin Gene: R. J. Distel, K. C. Kleene, N. B. Hecht .......................................................... 68
Entamoeba histolytica: A Eukaryote Without Glutathione Metabolism: R. C. Fahey et al. .......................................................... 70
Schwann Cell Galactocerebroside Induced by Derivatives of Adenosine 3',5'-Monophosphate: G. Sobue and D. Pleasure ............................................. 72
A New Charge-Mosaic Membrane from a Multiblock Copolymer: T. Fujimoto et al. .......................................................... 74
Carnivorous Mushrooms: R. G. Thorn and G. L. Barron .......................................................... 76
Late Triassic Naticid Drillholes: Carnivorous Gastropods Gain a Major Adaptation but Fail to Radiate: F. T. Fürsch and D. Jablonski ............................................. 78
An Unusual Phycoerythrin from a Marine Cyanobacterium: L. J. Ong, A. N. Glazer, J. B. Waterbury .......................................................... 80
Olfactory-Based Orientation in Artificially Imprinted Sea Turtles: M. A. Grassman et al. .......................................................... 83

COVER

An equal area (Aitoff) projection in galactic coordinates of the infrared emission from the entire sky with one-half degree resolution. The bright band running from top to bottom is the plane of the Milky Way galaxy with the center of the galaxy at the center of the picture. The colors represent three of the IRAS wavelengths bands (blue is 12 microns; green is 60 microns; and red is 100 microns). Thus, hotter material appears blue or white while the cooler material appears red. Visible in the picture are molecular clouds and regions of star formations in the constellations Ophiucus (center) and Orion (bottom, left). See page 14. [Jet Propulsion Laboratory, California Institute of Technology, Pasadena 91109]