LETTERS
Alcohol and Pregnancy: J. Kline; Nuclear Waste Disposal: P. C. Mangelsdorf, Jr., et al.; C. D. Hollister

EDITORIAL
Ten Years After Stockholm: G. F. White

ARTICLES
Galactic Evolution: A Survey of Recent Progress: K. M. Strom and S. E. Strom
DNA Conformation, Dynamics, and Interactions in Solution: D. J. Patel, A. Pardi, K. Itakura
Energy and the Oil-Importing Developing Countries: J. Dunkerley and W. Ramsay

NEWS AND COMMENT
Pentagon Moves Toward First-Strike Capability
Another in a Series of Counterforce Weapons
A Poor Start for the Militarization of Space
Security Checks on USDA Peer Reviewers
Chip Makers Turn to Academe with Offer of Research Support
Briefing: Environmentalists Now Targeting Reagan; Fewer Grants Next Year, Says Future NIH Director; New Biology Foundation Offers Fellowships; Inman Resigns from CIA

RESEARCH NEWS
New Valiums and Anti-Valiums on the Horizon
Neutrinos: No Oscillations?
Solar System Briefing: In Quest of Comet Halley; The Origin of the Moon; Dreams of Preplanetary Fire
U.S. Weather and the Equatorial Connection

AAAS NEWS
Scientists Call for "National Commitment" at Senate Hearings: J. Wreath; Conferences to Address Issues in Science Education; Policy Colloquium Set for June; Call for Nominees—SFR Award; Your Assistance Is Requested; Help Bring Science to the Visually Impaired; Howard A. Meyerhoff, 1899–1982; Gandhi Addresses Indian Science Congress; OCEANS '82 Set for Washington, D.C.; Obituaries
BOOK REVIEWS

Psychological Reactance, reviewed by C. Peterson; Genetic Engineering of Symbiotic Nitrogen Fixation and Conservation of Fixed Nitrogen, T. LaRue; Geobotany II, A. Traverse; Peat Stratigraphy and Climate Change, H. E. Wright, Jr., and J. A. Janssens; Neutrino 81, D. Schramm and J. N. Fry; Books Received .......................................................... 615

REPORTS

Precambrian Age of the Boston Basin: New Evidence from Microfossils: C. Lenk et al. .......................................................... 619
Skeleton of Diacodexis, Oldest Known Artiodactyl: K. D. Rose ................. 621
Upwelling of Hydrothermal Solutions Through Ridge Flank Sediments Shown by Pore Water Profiles: C. R. P. Maris and M. L. Bender ................................. 623
Blade Technology in the Egyptian Nile Valley: Some New Evidence: P. M. Vermeersch et al. .................................................. 626
Venus Was Wet: A Measurement of the Ratio of Deuterium to Hydrogen: T. M. Donahue et al. .................................................. 630
Uptake of Dissolved Sulfide by Spartina alterniflora: Evidence from Natural Sulfur Isotope Abundance Ratios: P. R. Carlson, Jr., and J. Forrest .......... 633
Curiosities in Periodic Precipitation Patterns: S. C. Müller, S. Kai, J. Ross ....... 635
Hum: α-Aldehyde Dehydrogenase: Mechanism of Inhibition by Disulfiram: R. C. Vallari and R. Pietruszko ........................................ 637
Phosphoglucomutase: Evidence for a New Locus Expressed in Human Milk: J. M. Cantú and B. Ibarra ........................................ 639
Prenatal Exposure to Phenobarbital Permanently Decreases Testosterone and Causes Reproductive Dysfunction: C. Gupta, S. J. Yaffe, B. H. Shapiro ...... 640
Calmodulin Binds to Chick Lens Gap Junction Protein in a Calcium-Independent Manner: M. J. Welsh et al. ........................................ 642
Neonatal Thymectomy Prevents Spontaneous Diabetes Mellitus in the BB/W Rat: A. A. Like et al. .................................................. 644
High Angiotensin-Converting Enzyme Activity in the Neurohypophysis of Brattleboro Rats: C. Chevillard and J. M. Saavedra ......................... 646
Oxytocin Induces Maternal Behavior in Virgin Female Rats: C. A. Pedersen et al. .................................................. 648

Technical Comments: Dolphins and the Bends: R. S. Mackay; J. Y. Lettvin et al.; S. H. Ridgway and R. Howard ........................................ 650

COVER

NGC 4603. A late Hubble-type (Sc) galaxy in the Centaurus cluster of galaxies. The bright, blue spiral arms outline the sites where star formation has been triggered recently in the disk of this galaxy. The bright nuclear bulge is an aggregate of stars believed to have formed more than 10 billion years in the past during the earliest evolutionary stages in the development of NGC 4603. See page 571 [Photograph was derived from images taken at the 4-meter telescope of the Cerro Tololo Inter-American Observatory and processed at the Kitt Peak National Observatory; © Association of Universities for Research in Astronomy, Inc., The Cerro Tololo Interamerican Observatory]