LETTERS
Women Engineers: T. Estrin; CONAES Energy Scenarios: B. I. Spinrad

EDITORIAL
Needed: Conviction to Match Our Science: L. M. Branscomb

ARTICLES
Focus on Polar Research: A. L. Washburn
Fossilized Viscera in Primitive Echinoderms: B. N. Haugh and B. M. Bell.
Measuring the Societal Benefits of Innovation: J. G. Tewksbury, M. S. Crandall, W. E. Crane

NEWS AND COMMENT
Ma Bell Eyes New Markets
Biologist Is New Head of Kennedy Institute
Briefing: Law of Sea Conference Still in Deep Water; Helsinki Accords Review Includes Science Contacts; A Sentimental Trip Down Accelerator Lane
Panel Asks "When Is a Person Dead?"
Condor Flap in California
Consensus—More or Less—on the Pap Smear

RESEARCH NEWS
Improving the Success of Kidney Transplants
Separations by MS Speed Up, Simplify Analysis

BOOK REVIEWS
Shang Civilization, reviewed by F. Ikawa-Smith; Fisheries Ecology of Floodplain Rivers, T. M. Zaret; Alfred Wegener und die Drift der Kontinente, T. H. van Andel; Some Adaptations of Marsh-Nesting Blackbirds, P. R. Grant; Books Received

REPORTS
Sources of Continental Crust: Neodymium Isotope Evidence from the Sierra Nevada and Peninsular Ranges: D. J. DePaolo
Foraminifera: Distribution of Provinces in the Western North Atlantic: M. A. Buzas and S. J. Culver
Detection, Pursuit, and Overgrowth of Tropical Gorgonians by Milleporid Hydrocorals: Perseus and Medusa Revisited: C. M. Wahl
Endocytic Sucrose Uptake in *Amoeba proteus* Induced with the Calcium Ionophore A23187: R. D. Frisch

Atmospheric Water Uptake by an Atacama Desert Shrub: H. A. Mooney et al.

Cell-Free Synthesis of Acetylcholine Receptor Polypeptides: B. Mendez et al.

Viviparity and Intrauterine Feeding in a New Holocephalan Fish from the Lower Carboniferous of Montana: R. Lund

Sodium-Calcium Exchange in Rabbit Heart Muscle Cells: Direct Measurement of Sarcoplasmic Ca**2** Activity: C. O. Lee, D. Y. Uhlen, K. Dresner

Estrogen and the Growth of Breast Cancer: New Evidence Suggests Indirect Action: S. M. Shafie

C-Glucuronidation of the Acetylenic Moyer of Ethylchrysvnd in the Rabbit: C. R. Abolin et al.

Critical-Path Scheduling of Mental Processes in a Dual Task: R. Schweickert

Visually Induced Self-Motion Sensation Adapts Rapidly to Left-Right Visual Reversal: C. M. Oman, O. L. Bock, J.-K. Huang

Ethanol Specifically Potentiates GABA-Mediated Neurotransmission in Feline Cerebral Cortex: J. N. Nestoros

Neuronal Loss in Hippocampus Induced by Prolonged Ethanol Consumption in Rats: D. W. Walker et al.

Do Corals Lie About Their Age? Some Demographic Consequences of Partial Mortality, Fission, and Fusion: T. P. Hughes and J. B. C. Jackson

Environmental Influences on Body Weight and Behavior in Developing Rats After Neonatal 6-Hydroxydopamine: D. E. Pearson et al.

Minimal Conditions for the Visual Detection of Structure and Motion in Three Dimensions: J. S. Lappin, J. F. Doner, B. L. Kottas


**PRODUCTS AND MATERIALS**

Liquid Chromatography; Amino Acid Analyzer; Physiological Recorders; Electronic Top-Loading Balances; Metabolism Cages for Small Animals; Data Terminal; Gas Chromatograph; Liquid Scintillation Counter; Literature

**COVER**

Greek pottery oinochoe (wine jug), late 6th century B.C. The person on the left appears to be a reveler; the one on the right plays a flute. Has mankind been attracted to alcohol because of its GABA-potentiating properties? See page 708. [Photograph by L. Lurie, permission of Petit Musée, Montreal, Canada]