LETTERS
Carter's Engineering Background: R. E. Lamar; W. B. Jarzembski; J. A. Snow; The Science Court: E. Callen; Clean Air Litigation: C. Pope; C. L. Clayton

EDITORIAL
Universities and National Research Policy: D. C. Bok

ARTICLES
Astronomy, Architecture, and Adaptation at Pueblo Bonito: J. E. Reyman
DNA Polymerase I: Essential Replication Enzyme: I. R. Lehman and D. G. Uyemura
Pattern Regulation in Epimorphic Fields: V. French, P. J. Bryant, S. V. Bryant

NEWS AND COMMENT
Squall in Chesapeake: Marine Institute Rammed by Junk Charge
Laetrile: "Quack" Cancer Remedy Still Brings Hope to Sufferers
NSF: Kennedy Pours Trouble on Oiled Waters

RESEARCH NEWS
Animal Behavior: The Puzzle of Flavor Aversion: P. Wallace
Latest New Particle Caps The Evidence for Charm

ANNUAL MEETING
Call for Contributed Papers: A. Herschman; Instructions for Contributors

BOOK REVIEWS
Function and Evolution in Behaviour, reviewed by J. P. Hailman; Membrane Biogenesis, R. O. Poyton; Cellular Pharmacology of Excitable Tissues, B. I. Shapiro; Proceedings of the Sixth Hawaii Topical Conference in Particle Physics, B. R. Holstein; Fluctuations, Instabilities, and Phase Transitions, D. Mukamel; Books Received; Book Order Service

REPORTS
Earth Rotation Measured by Lunar Laser Ranging: A. Stolz et al.

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Cloud Condensation Nuclei on the Atlantic Seaboard of the United States: L. F. Radke and P. V. Hobbs .................................................. 999

Light Flashes Observed on Skylab 4: The Role of Nuclear Stars: P. L. Rothwell, R. C. Filz, P. J. McNulty .................................................. 1002

Nitrogen Fixation in Grasses Inoculated with Spirillum lipoferum: R. L. Smith et al. .............................................................. 1003

Acoustic Tracking of Ocean-Dumped Sewage Sludge: J. R. Proni et al. ................................................................. 1005

Selective in vitro Growth of T Lymphocytes from Normal Human Bone Marrows: D. A. Morgan, F. W. Ruscetti, R. Gallo .................................................. 1007


Modulation of C3b Hemolytic Activity by a Plasma Protein Distinct from C3b Inactivator: K. Whaley and S. Ruddy .................................................. 1011

Sialic Acid: Effect of Removal on Calcium Exchangeability of Cultured Heart Cells: G. A. Langer et al. .................................................. 1013

Cortisol Stimulation of Parathyroid Hormone Secretion by Rat Parathyroid Glands in Organ Culture: W. Y. W. Au .................................................. 1015

Complete Covalent Structure of a Human IgAl Immunoglobulin: Y.-S. V. Liu et al. .................................................. 1017

Histone Transition During Spermiogenesis Is Absent in Segregation Distorter Males of Drosophila melanogaster: N. P. Kettaneh and D. L. Hartl .................................................. 1019

1,25-Dihydroxyvitamin D in Biological Fluids: A Simplified and Sensitive Assay: J. A. Eisman et al. .................................................. 1021


Monoamine Changes in the Brain of Cats During Slow-Wave Sleep: R. Kovačević and M. Radulovacki .................................................. 1025


Products and Materials

Hybrid Minicomputer; Myocardial Infarction Indicator; Scanning Electron Microscope; Small Helium Neon Laser; Programmable Freezing System; Dew Point-Temperature Monitor; Derivatizing Reagent Kits; Literature .................................................. 1035

Cover

Close-up of exterior view of corner window, Pueblo Bonito, Chaco Canyon, New Mexico. See page 957. [Jonathan Reyman, Illinois State University, Normal, Illinois]
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Universities and National Research Policy

The postwar ebullience and national prosperity has given way to austerity and national insecurity. This new environment poses special dangers for the research university. Our political system naturally produces pressures to satisfy the majority and spread resources evenly over a large number of claimants. If there is too little money to satisfy all claims, the needs of institutions of special quality are readily dismissed as elitist and unnecessary. A period of national insecurity also reinforces the tendency to concentrate on immediate problems and ignore or defer long-term needs. Finally, a period of austerity impels public officials to insist that every expenditure be justified as objectively as possible. Such accountability is not kind to the intangible values that characterize so much of the work of universities.

These pressures have already left their mark on the nation's research effort. Federal support for R & D and basic research has steadily declined in real dollars, and other nations are beginning to surpass us in the share of the gross national product that they devote to these purposes. Applied research is targeted heavily at urgent domestic problems, such as cancer and energy, to the neglect of longer-range international needs in such fields as basic biological research devoted to agriculture and tropical disease. Funds for equipment and facilities have fallen off to such a point that experimental science is threatened in many private universities. Investigators are hampered by instability in federal funding and by increasing red tape in the administration of contracts. Financial stringency has limited the career opportunities of younger university scientists and threatens to drive promising investigators into other, less productive environments.

These developments call for greater efforts from universities to press the case for research support. This task has been largely left to individual scientists, who have worked effectively with their counterparts in the National Science Foundation and Health, Education, and Welfare. But scientists cannot fully appreciate the needs of the university as a whole. They have little contact with members of Congress or with the Office of Management and Budget or with other key officials in the Executive Branch. And they lack the capacity to attract support from representatives of business and other sectors with a stake in a vigorous science program.

What can be done to improve the situation? To begin with, university organizations—especially the Association of American Universities—must make a sustained effort to develop an effective policy for the support of research and to create an effective forum in Congress and the Executive Branch where they can discuss this policy not only at budget time but on a more informal, long-term basis.

University presidents must also do more to help formulate an adequate research policy. Presidents cannot impose their opinions in matters beyond their competence. But they must see to it that all the interests of the institution are identified, that conflicting needs are reconciled, and that these needs are presented in convincing form to those who make the ultimate decisions in Washington. And they must make efforts to enlist the aid of allies outside the universities who share an interest in the progress of science.

Above all, a much more forceful case must be made for the importance of research universities to the nation's welfare. It has become fashionable today to belittle the value of education and to question the contributions of knowledge. We are doing very little to counter these arguments. Perhaps we have lost our nerve, or perhaps we have grown too accustomed to having our importance taken for granted. Whatever the reason, we run the risk of having our needs quietly ignored in favor of all the other urgent claims being made on the government. We will do a disservice to ourselves and to the public interest if we allow this situation to continue. —DEREK C. BOX, President, Harvard University, Cambridge, Massachusetts 02138

This editorial is adapted from an address delivered at the annual meeting of the American Association for the Advancement of Science in Boston, Massachusetts, 18 February 1976.