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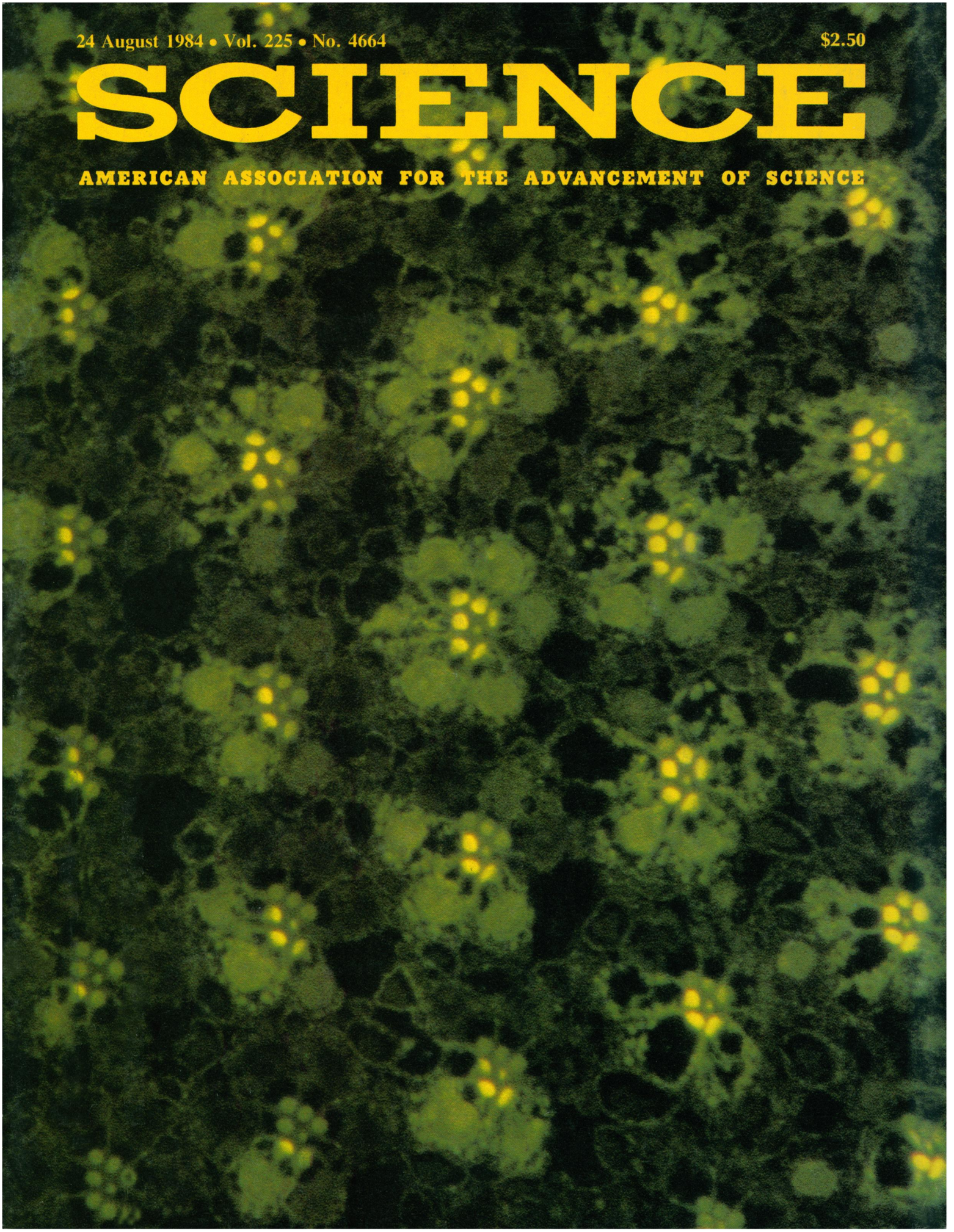

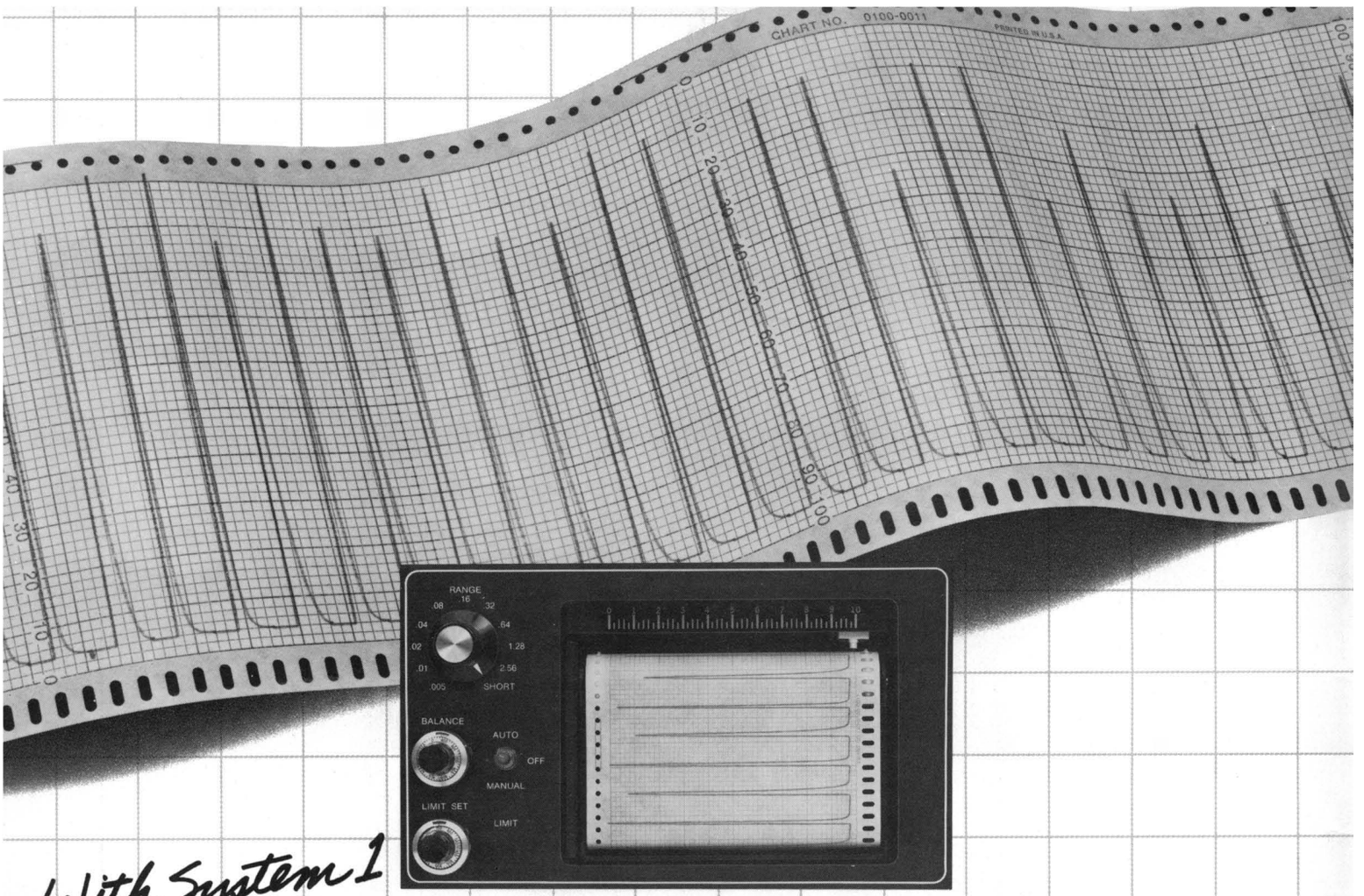

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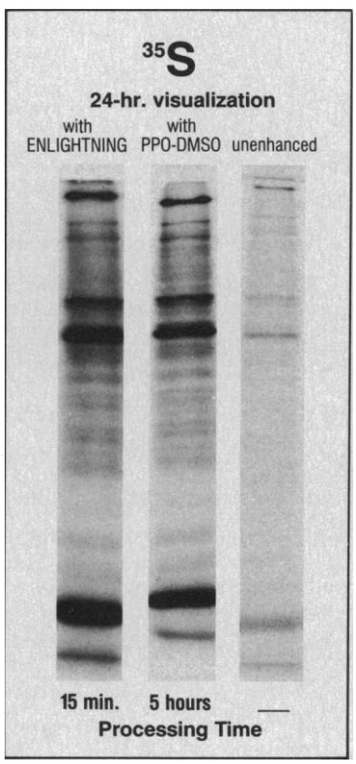

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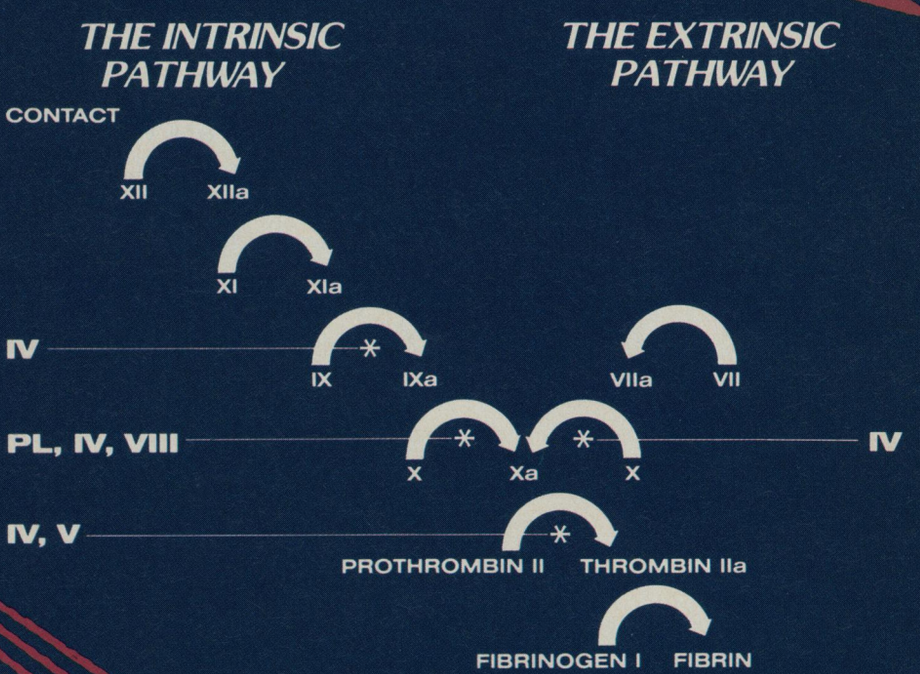
COVER

Orderly arrangement of the photoreceptor mosaic in the compound eye of the house fly revealed by epifluorescence microscopy. As a result of illumination, preselected photoreceptor cells have captured a yellow fluorescent dye which stains each cell down to its synaptic terminal. Present evidence suggests that illumination of these receptors provokes an "induced endocytosis" of the dye which was added to the extracellular space. See page 851. [Michael Wilcox and Nicolas Franceschini, Institut de Neurophysiologie et Psychophysiologie, Centre National de la Recherche Scientifique, Marseille, France]

Bovine Thrombin — for diagnostic for research for defibrination applications



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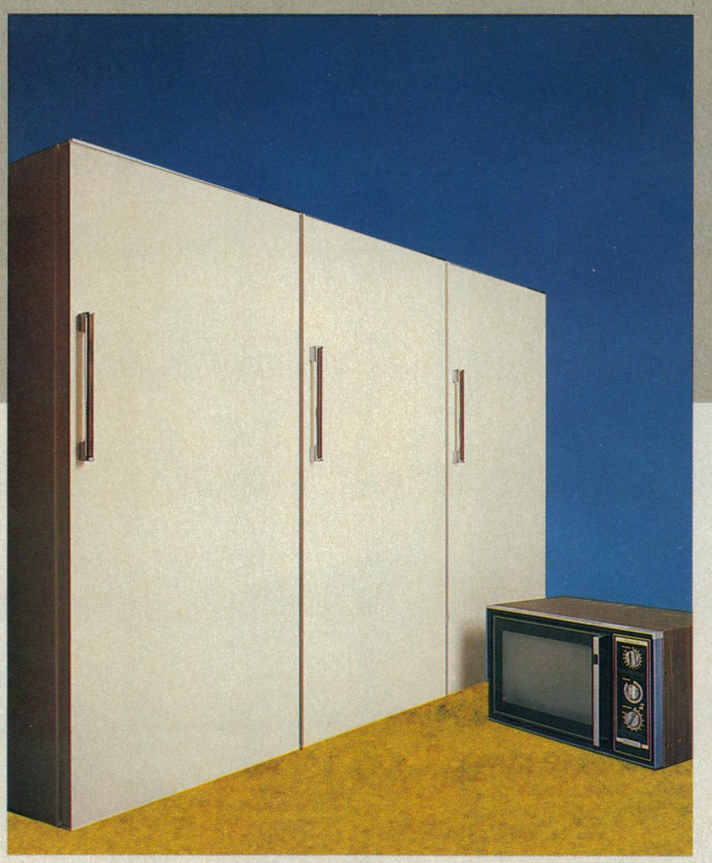

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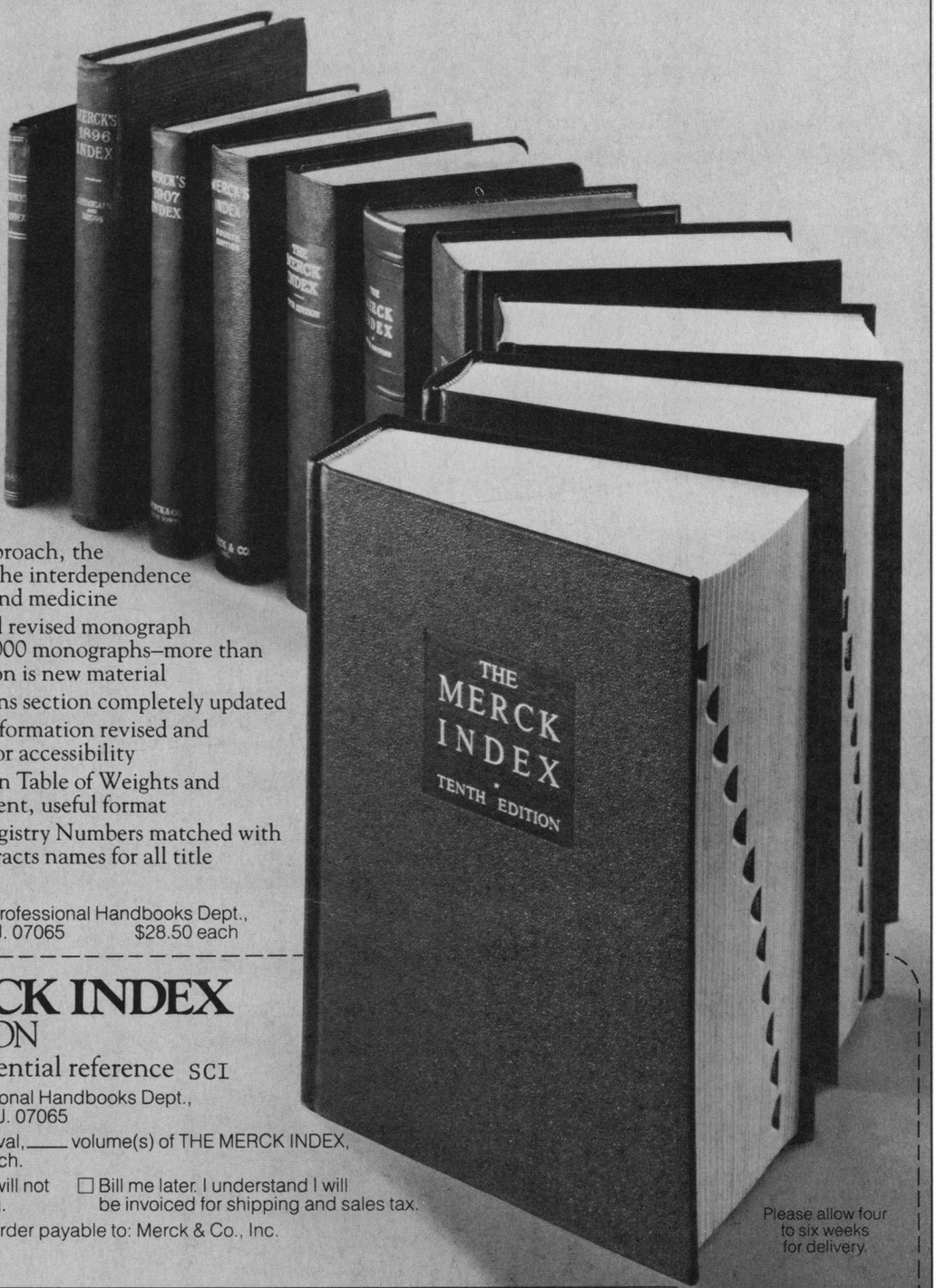

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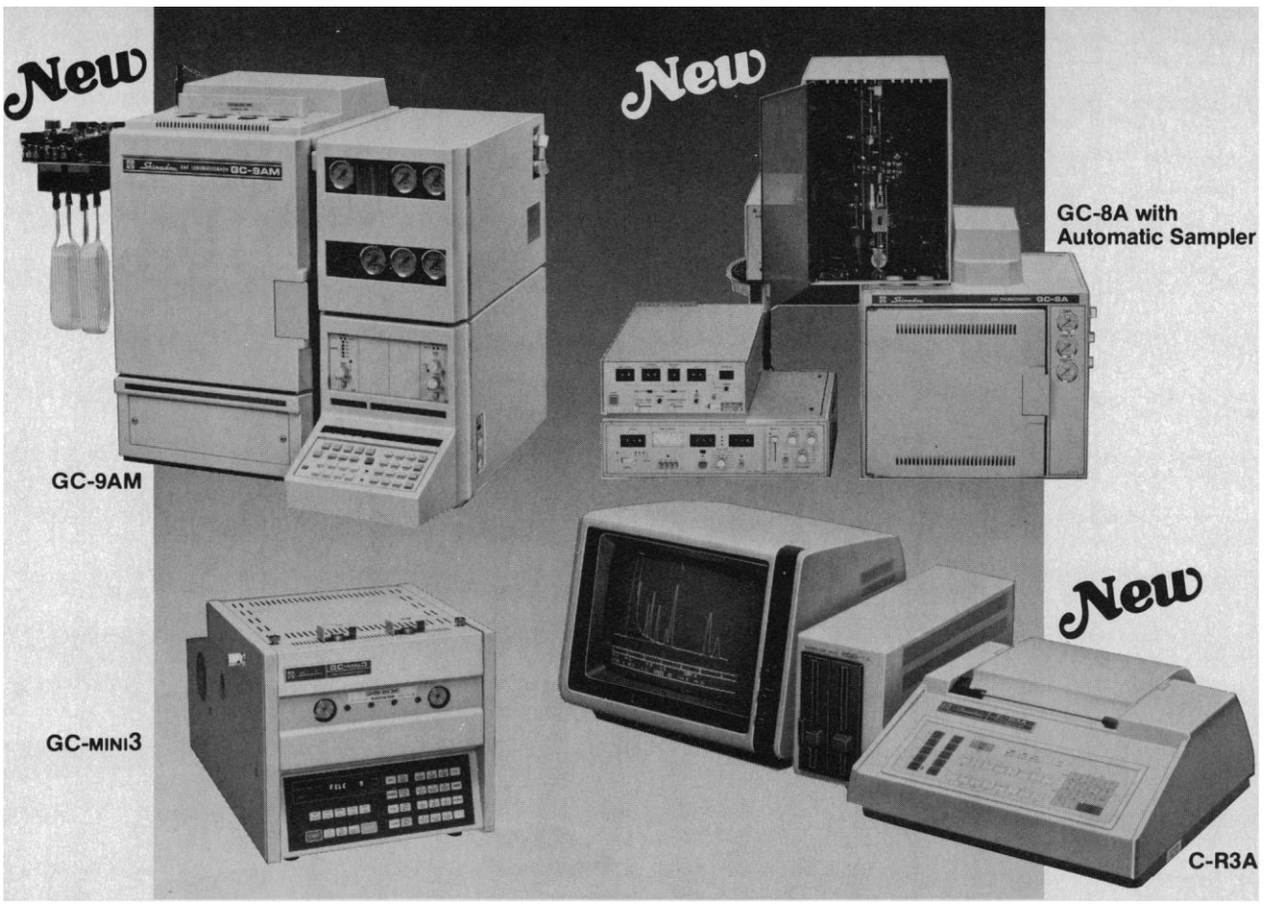

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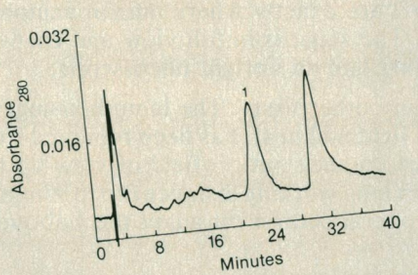
Gradient:	0% B-25% B; 1 hr.
Flow Rate:	1 ml/min.
Pressure:	900 psi
Detection:	UV @ 280, 0.08-aufs
Peak 1:	IgG_1



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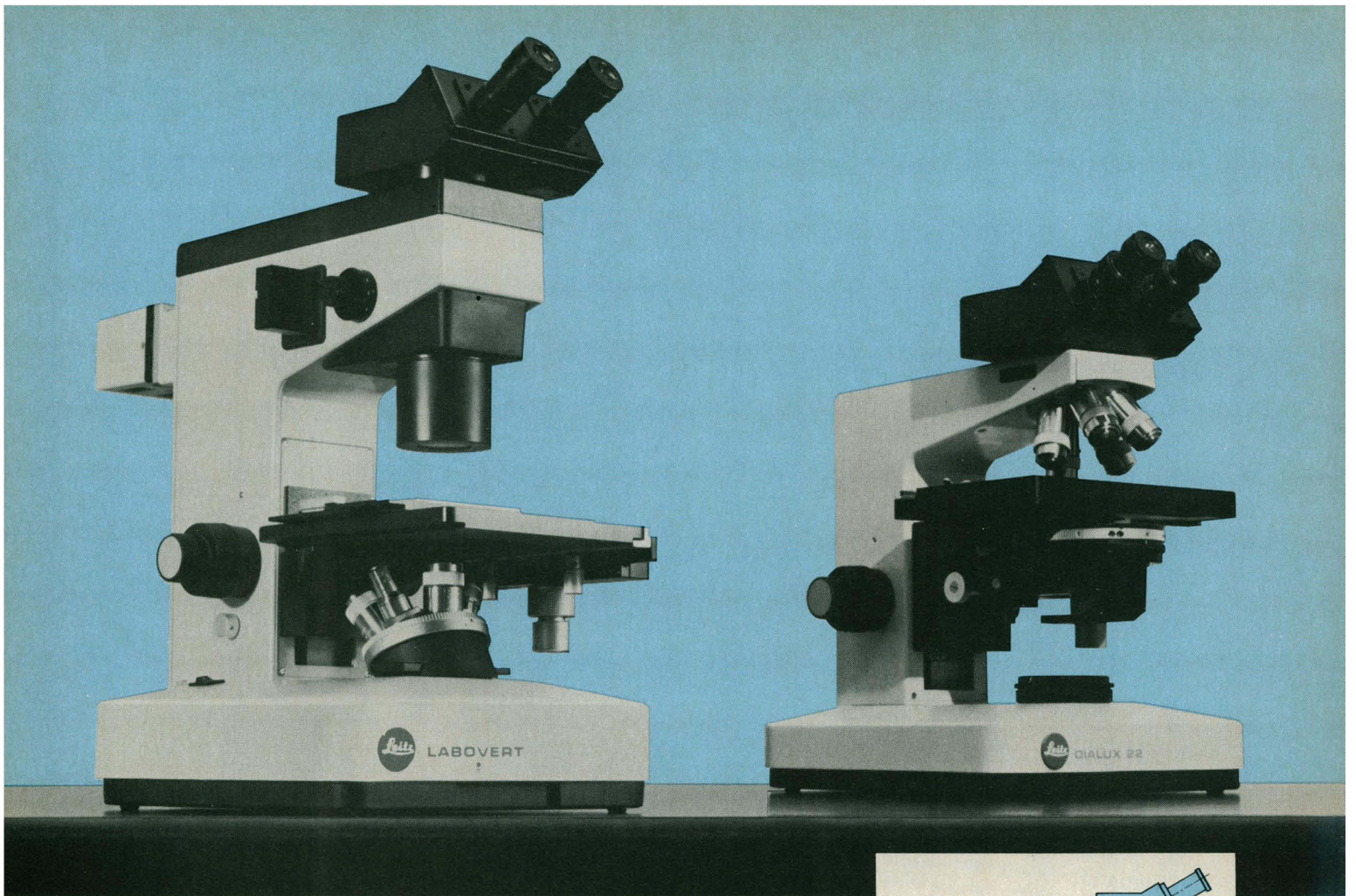

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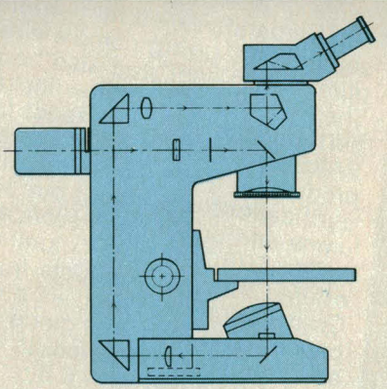

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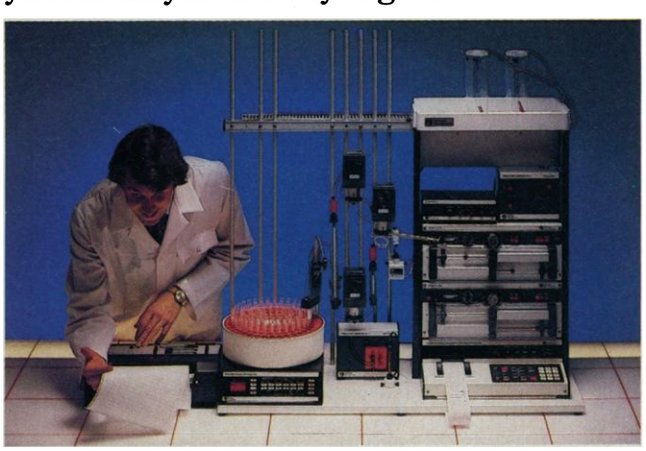

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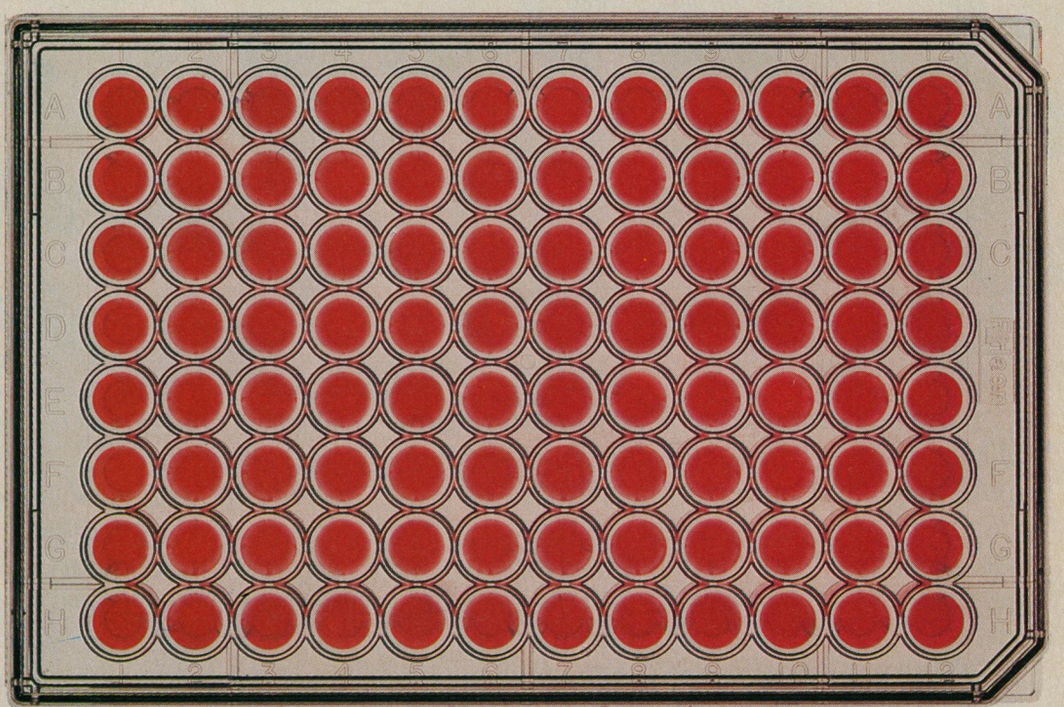
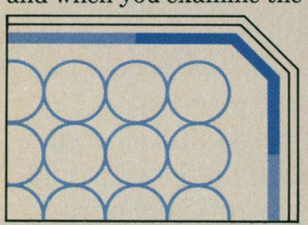


Introducing the Falcon MicroTest™ III 96-Well Plate with the Low Evaporation Lid.

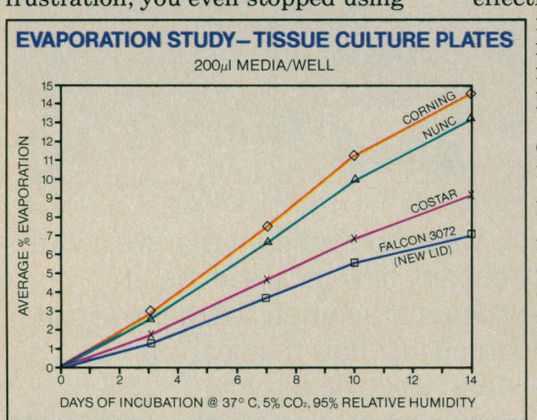
How many times has this happened to you? You culture cells in a 96-well plate and when you examine the



Labyrinth Air Passage System

results, you discover discrepancies between wells of the plate.

This may have happened because either (1) media evaporation in the outer wells differed significantly from that in the inner wells, or (2) the overall plate evaporation was excessive. This evaporation concentrated the media constituents, which in turn caused an increase in their osmolarities. Maybe, out of frustration, you even stopped using



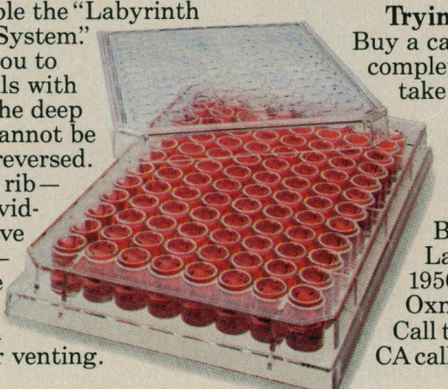
the outer wells altogether.

If this sounds familiar, try the new Falcon MicroTest™ III 96-Well Plate and Low Evaporation Lid (Cat. No. 3072).

There is less media evaporation with Falcon than with these three competitors.

There's no arguing with facts. Using volumes of 100 µl and 200 µl, studies show that Falcon was over 80% more effective than its competitors in reducing the amount of total media evaporation, and successful in cutting media loss in the periphery walls by up to 25%.

We call the new exclusive design which makes these results possible the "Labyrinth Air Passage System." This allows you to use all 96 wells with confidence. The deep one-way lid cannot be accidentally reversed. The raised lid rib—with the individual rings above all the wells—helps eliminate the chance of cross-contamination and further aids proper venting.



The Falcon MicroTest™ III 96-Well Plate and Lid have other special features.

The wells are identified and cross-indexed with an alpha-numerical grid system to help you locate each well quickly and easily. Also, the plate and lid are compatible with automatic dispensing instruments. The plates are tissue culture-treated to improve cell growth characteristics, and radiation-sterilized. They are available individually wrapped or five plates per bag.

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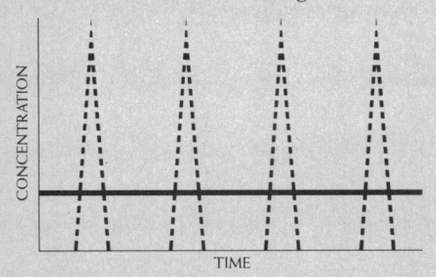

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A MAJOR TELEVISION DOCUMENTARY ON AIDS

A major documentary on AIDS will air nationwide on August 29 on the PBS network. (Please check local listings.) Hoffmann-La Roche Inc. is the major underwriter. The National Cancer Institute and the National Institute of Allergy and Infectious Diseases have provided additional funding.

Early last year, because of some very early Roche research, our telephones began ringing with questions about AIDS. The deep concern was for the relatively few patients who had already been stricken. The terrible fear was that this syndrome of then completely puzzling etiology might spread to the countless.

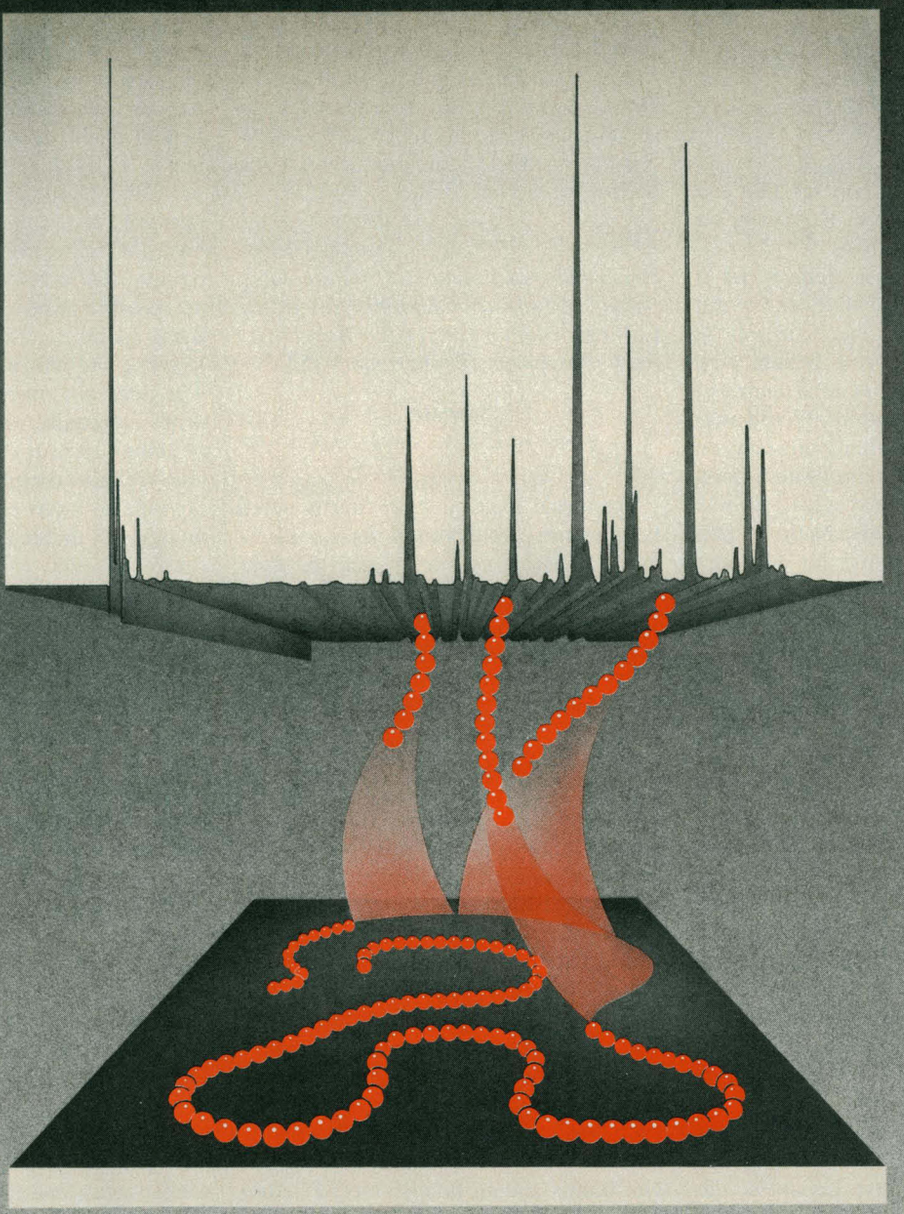
As the fear became greater the need to de-sensationalize the syndrome became more obvious as did, happily, the way to do that. It was a Public Broadcasting Service television documentary which had been proposed by television journalists Harvey Marks and Harry Chancey, Jr. who would create and produce it for WNET-TV, New York's PBS station.

The documentary that resulted from the independent effort of Marks, Chancey and WNET/THIRTEEN is called "AIDS: Profile Of An Epidemic." A year in the making and an hour long, it is hosted by Edward Asner. It is the first major television documentary to de-sensationalize the information about AIDS and to provide a comprehensive examination of the disease. It does that in language for the lay audience and it does that factually. It profiles five patients (a male homosexual, a hemophiliac, an I.V. drug user, a Haitian and a child who acquired AIDS *in utero*) and it does that discerningly and sensitively.

Roche is proud to be associated with such a responsible media report, the kind that makes it easier for scientists in industry, academia and government to go about their research. Aggressively, yet soberly and systematically. In a word, scientifically.

We hope you will be able to watch this program, and welcome your comments.

Sincerely,



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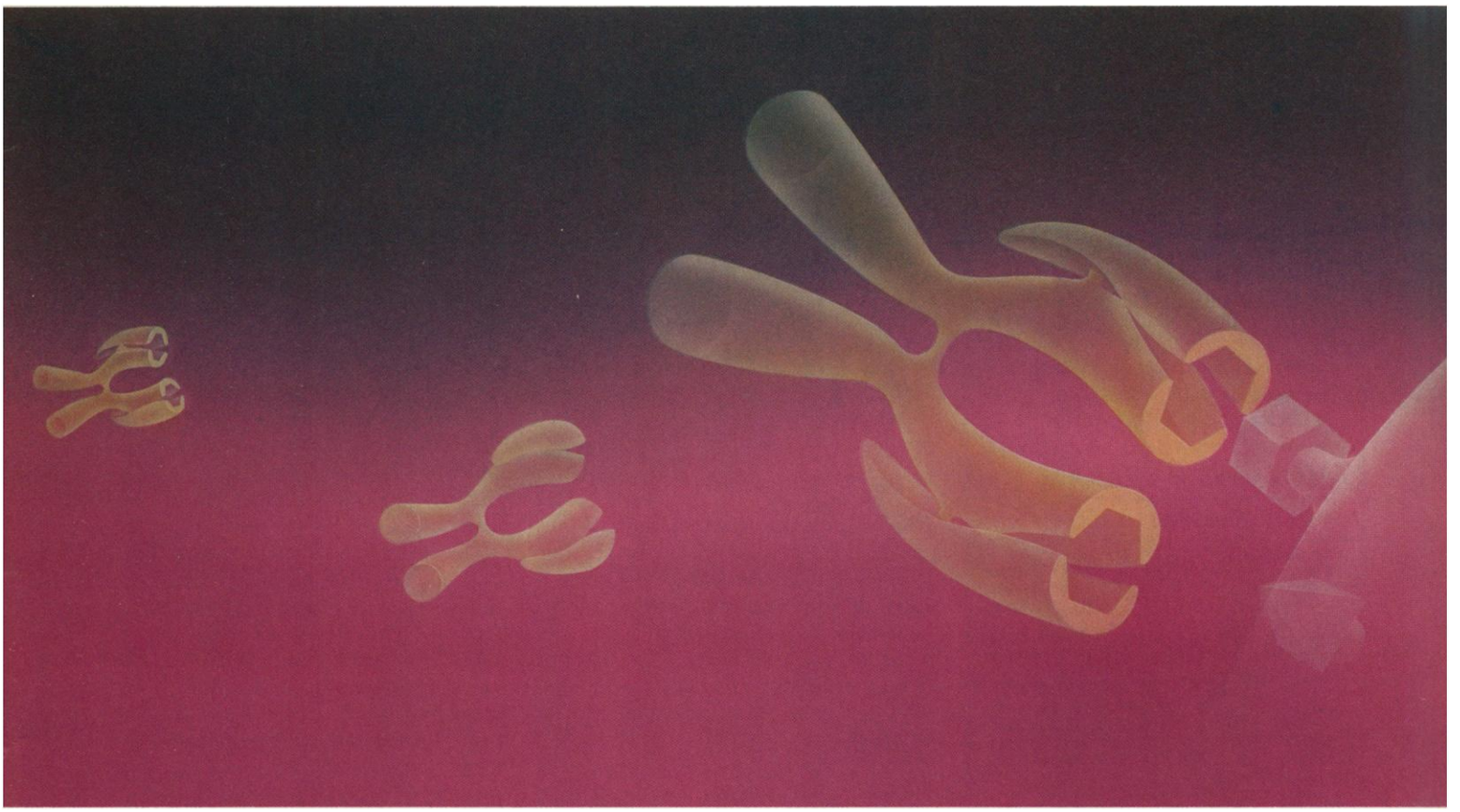

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ever, by almost every witness at the 1979 hearings and, mercifully, that bill eventually died in committee.

E. F. HAMMEL
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Los Alamos, New Mexico 87545

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3. S. Ben-David, A. V. Kneese, W. D. Schulze, *A Study of the Ethical Foundations of Benefit Cost Analysis Techniques* (Department of Economics, University of New Mexico, Albuquerque, 1979).
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Bob Ormes: An Appreciation

In the obituary for Robert V. Ormes (6 July, p. 44), mention is made of his "solid personal contribution to the development of a standard style guide for biology journals." This in no way conveys the importance or extent of that contribution.

For 25 years, Bob was a member of the Council of Biology Editors (CBE), and served on its Committee Form and Style for 12 years. This committee was responsible for the preparation of the first *Style Manual for Biological Journals* in 1960. The second edition was published in 1964, and the third, under the new and current title *CBE Style Manual*, was published in 1972. Bob contributed substantively to the content and format of those first three editions.

From 1965 to 1972, I had the privilege and pleasure of working with Bob on the committee preparing the third edition of the style guide. His vast knowledge of the English language was reflected in the excellence of those sections of the manual dealing with vocabulary, word usage, punctuation, abbreviations and symbols, typographical conventions, and proofing. Seemingly unresolvable differences by committee members with respect to etymology and syntax would be agreed upon after a reasoned explanation by Bob and his reference to the proper source for verification. His calm, thoughtful, and considerate demeanor provided the committee with a sense of scholarship and dignity that enhanced its labors. "A gentleman and a scholar" are terms that fit Bob Ormes perfectly.

During the past decade Bob was rarely involved in CBE activities, but those of us who worked with him years ago know the impact he had in helping develop the style standard for biological publications. This may have been just one small facet in a long and distinguished career, but readers deserve to know the role that Bob Ormes played in influencing and improving the quality of scientific publications in general, as well as that of *Science* in particular.

PHILIP L. ALTMAN
Council of Biology Editors, Inc.,
9650 Rockville Pike,
Bethesda, Maryland 20814

Campus Planning

Thomas Bender's review (18 May, p. 715) of my book *Campus: An American Planning Tradition* (*1*) makes some interesting points, but contains a misrepresentation of one of the work's themes. According to Bender, "[Turner] declares that . . . American campuses are 'cities in microcosm,' " and he proceeds to point out "several problems with this thesis." In fact, my book makes no such simple equation of campuses with cities. In the preface, I suggest that a common trait of American campus planning has been "the *conception of* colleges and universities as communities in themselves—in effect, as cities in microcosm" [emphasis added]. Examples of this trait are described throughout the book, as in Thomas Jefferson's vision of the University of Virginia as an "academical village," the frequent planning of universities around 1900 as "cities of learning," and attitudes of more recent designers, such as Harvard's J. L. Sert, who said in 1963 that "a university campus is a laboratory for urban design." I discuss at some length whether this "urban model" is appropriate, and I point out that whereas the campus can, indeed, be seen as a city in many respects, it nevertheless is "not exactly a city." My remark, in the conclusion of the book, that "as a kind of city in microcosm, [the American campus] has been shaped by the desire to create an ideal community" must therefore be read in the context of my entire treatment of this theme.

PAUL VENABLE TURNER
Department of Art,
Stanford University,
Stanford, California 94305

References

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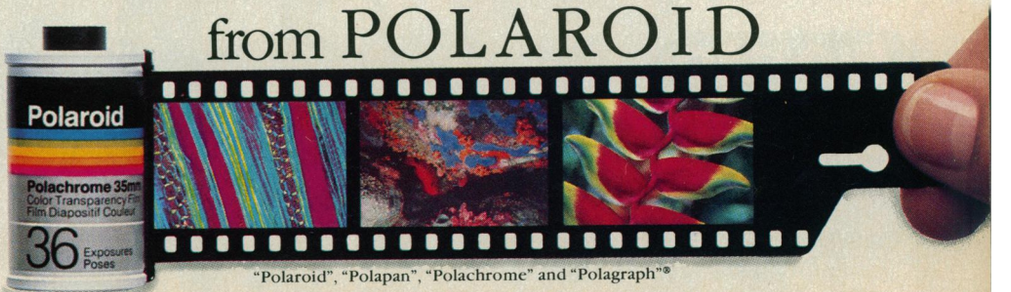

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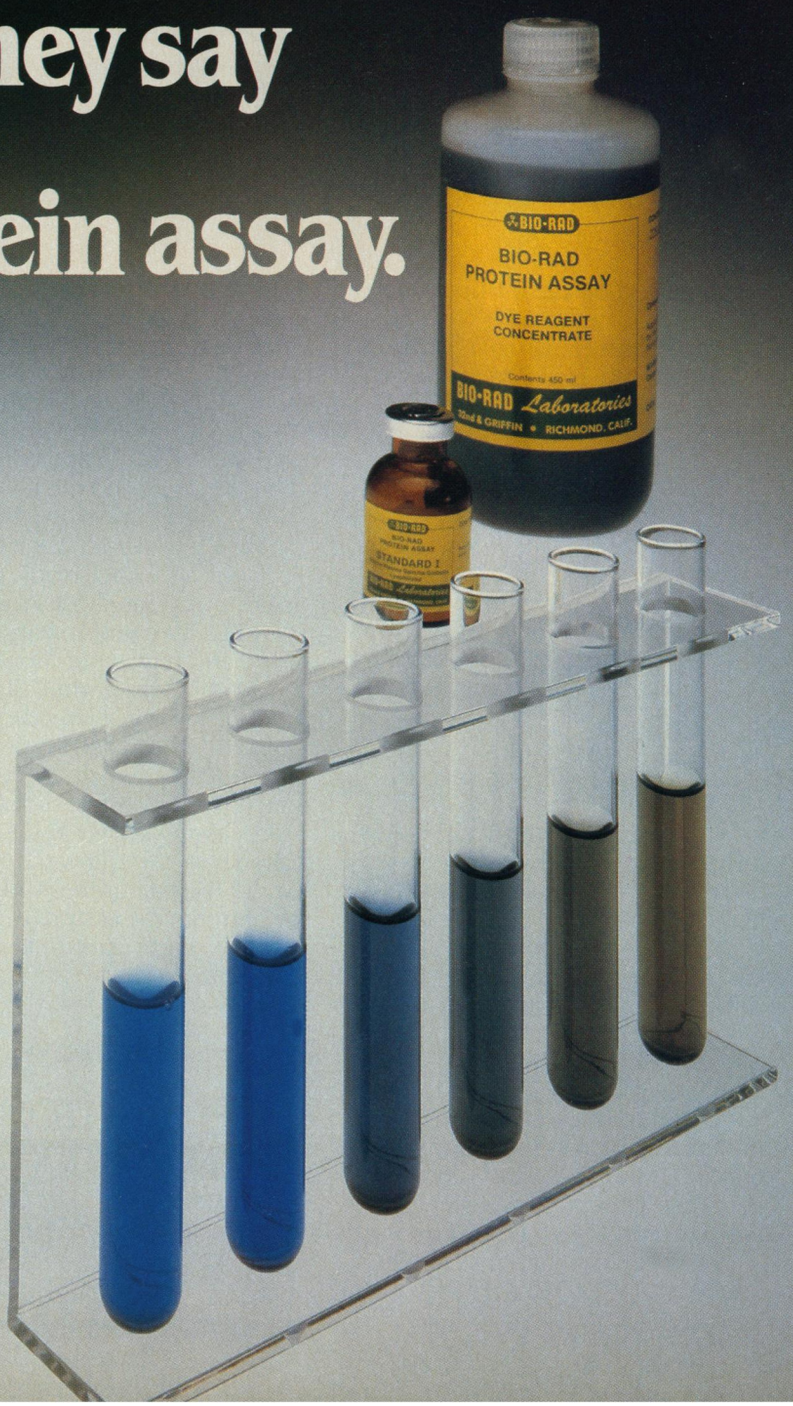

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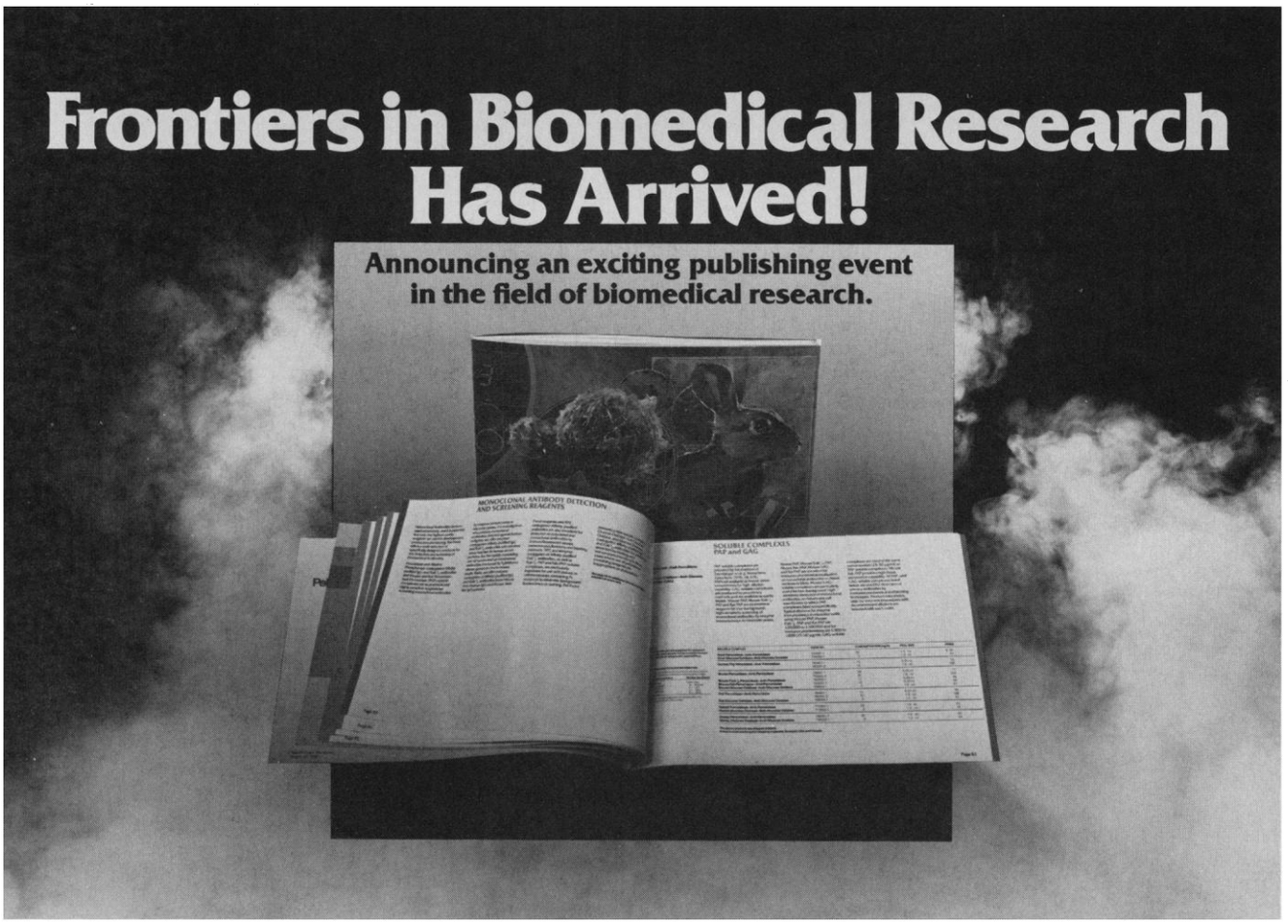

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24 August 1984, Volume 225, Number 4664 SCIENCE

Universities: The Next Iteration?

Universities are among the slowest changing institutions in society. They are agents of intellectual change but resist reshaping their own institutional boundaries. Witness the difficulties when any attempts to break down disciplinary walls are made, when new administrative shapes are proposed, when old autonomies or empires are threatened. "We haven't done it that way before" is the solemn refuge of the faculty, of department heads, deans, and other leaders. To outsiders, this curious kind of resistance seems absurd in those who work in places devoted to pushing back the boundaries of ignorance, to honing fresh minds, and to demanding skepticism in accepting any prescribed truths. Why should the shape of our universities be so sanctified, so inviolate?

Habit, history, and hubris are some of the reasons. American veneration of European institutions helped set our academic concrete. But events are chipping away at this foundation. The price of an education is requiring new responses from institutional boards, faculties, and administrations. Taxpayers should, and will, demand economies of organization to allow expanded educational scope in America. Recession has caused much agonized reappraisal on U.S. campuses. But some change has been thrust upon us. That may stimulate imaginative shifts in educational approaches.

It is vital that the universities take a serious look at their futures. New directions are opening while universities are merely plying their daily business. Charting a course of institutional development for the next generation of research universities is perhaps the most urgent need facing higher education at this time. Networks of research and instruction in high technology may be one way to begin, with alliances developing through the interaction of faculty and students.

University consortiums, coalitions that provide opportunities for faculty interchange, cooperative purchasing of equipment and books, and some cross-listing of courses signal one change. Consortiums may be the outline of what universities will become in the next century. Intellectually or geographically kindred campuses that are linked by agreements might be able cooperatively to exchange people, courses, and equipment to achieve a matrix organization that would provide wider research and educational opportunities to students and faculties while still preserving separate campus identities and loyalties. Universities in Britain have, for years, exchanged examiners so that graduates have been measured by comprehensive standards.

Universities should lead the way toward a regional response to academic needs, toward a new alliance of campuses that will make possible the strongest base for research and learning. If this happens, there will be a real chance to create world universities, institutional matrices capable of cooperative, even international approaches to technological challenges and to such fundamental problems as war, famine, pestilence, and death.

There are logical congeries of campuses that come to mind—in the Boston–New York corridor, in California, in the upper mid-West, in Texas and the Southwest. Some alumni may fear closer cooperation as a threat to identity. That worry will dissipate as their institutions thrive despite slimmer resources, grow in outreach and impact, and as their degrees are enhanced.

Those of us in America's educational enterprise ought to be flexible enough to achieve this new network of talent and opportunity. Will we?

—FRANK E. VANDIVER, *President, Texas A&M University, College Station 77843*

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