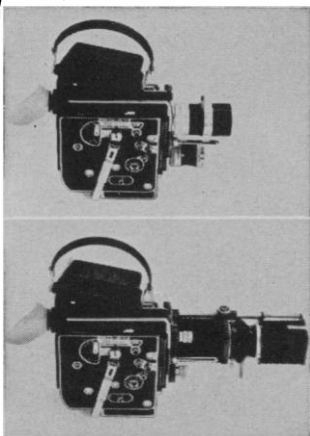


All you need to make movies is a 16mm Bolex and a lens.

All you need to make movies is a 16mm Bolex and a lens.



But Bolex is a system as well as a camera. It can be outfitted for your specific laboratory needs. Begin with reflex (through-the-lens) viewing. The Bolex H-16 Rex-5 camera with its built-in single frame device is designed for all time-lapse applications, even through a microscope. And at any time the number of frames exposed can be checked on the frame counter built into the camera. Variable speeds from 12 to 64 frames per second allow you to slow down the action for analytical purposes. A wide range of optically perfect lenses offer complete flexibility from extreme wide angle to macro close-up cinematography, including zooms.

Bolex cameras, made with Swiss watch making precision, have proven their accuracy over many years time, under the most adverse conditions and at tropic and arctic temperatures. This is the Bolex H-16 Rex 5, The Microbe Hunter.

For a special issue of the Bolex magazine on scientific and medical photography, write to Paillard Incorporated, 1900 Lower Road, Linden, New Jersey 07036.

BOLEX
Bolex H-16 Rex 5,
The Microbe Hunter.

Circle No. 72 on Readers' Service Card

748

of the letters (the underlying "g-ness") and the form of the letters (the presence of genius)—in other words, a convergence of reason and beauty.

Certainly the more immediate communication problems in our own society take precedence, but if we hope to save future civilizations some of the ambiguity our contemporaries find in ancient language remains, an important part of this concern should be more careful analysis and understanding of what may well be our only link with the distant future—our visible language.

MERALD E. WROLSTAD

Journal of Typographic Research,
Cleveland Museum of Art,
Cleveland, Ohio 44106

First AIBS National Biological Congress

The American Institute of Biological Sciences, at its recent meeting, passed a resolution to hold national biological congresses in 1970, 1971, and 1972. The first will be held in Detroit, 6-10 November 1970, under the chairmanship of William D. McElroy of Johns Hopkins University. The congresses will be concerned with various social, educational, and scientific problems with the morning sessions devoted to interdisciplinary symposia covering the major scientific advances in all areas of biology. National and international leaders in the biomedical sciences will be invited to participate. Afternoon sessions will be devoted to papers by biologists who are active in research in areas ranging from molecular, genetic, and developmental biology to evolutionary, ecological, and environmental sciences. Younger scientists will be invited to contribute original research papers on the subjects covered by the major symposia. The evening session, to be open to the public, will be designed to provide a forum in which the interrelationships of biology, technology, society, and public affairs are considered. National, state, and local leaders will be invited to participate. Among the topics to be considered are water and air pollution, pest control, population pressures, community health, food quality, and the effects of drugs on human development and behavior. Ideas are needed for other topics that might be considered.

Programs of lectures, exhibits, and organized tours will be arranged for

PUMP WITHOUT CONTAMINATION

varistaltic pump®

Pumps liquids or gases safely

Fluids never come in contact with any part of pump... pass only through chemically inert tubing. The new solid state controlled unit has ± 1 to .RPM stability. From \$159.50.

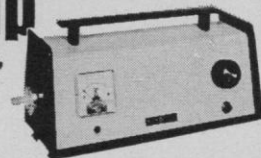


DELIVERS DROPS TO 1500 CC PER MIN.

ministaltic pump™

Uniform flow, one-knob control of corrosive liquids.

Accurate little workhorse has been tested for over 10,000 continuous hours of operation. Compact, smooth flow, economical, durable. Liquids come in contact only with chemically inert polyethylene... \$96.50



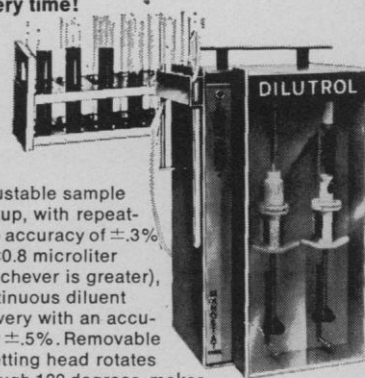
MANOSTAT Corporation

Available through your laboratory supply dealers
20 N. MOORE ST., DEPT. 524, N. Y. 13, N. Y.

NEW AUTOMATIC

diluting instrument

for acids, bases, solvents eliminates error, waste, contamination or effort... every time!



Adjustable sample pickup, with repeatable accuracy of $\pm 3\%$ or ± 0.8 microliter (whichever is greater), continuous diluent delivery with an accuracy $\pm 5\%$. Removable pipetting head rotates through 120 degrees, makes possible operation at distances up to 4 feet. The exclusive electromagnetic check valve assures positive repeatability and provides an airlock between sample and diluent; liquids touch only Teflon and glass. DILUTROL is priced from \$365.00.



MANOSTAT Corporation

Available through your laboratory supply dealers
20 N. MOORE ST., DEPT. 524, N. Y. 13, N. Y.

Circle No. 121 on Readers' Service Card

local high school and college students who are interested in careers in the biomedical sciences.

The National Biological Congress will not supplant the regular AIBS meetings, which will continue to be held on college campuses in late August. The 1969 meeting will be at the University of Vermont, Burlington, 17-22 August, and the 1970 meeting will be held at Indiana University, Bloomington, 23-28 August.

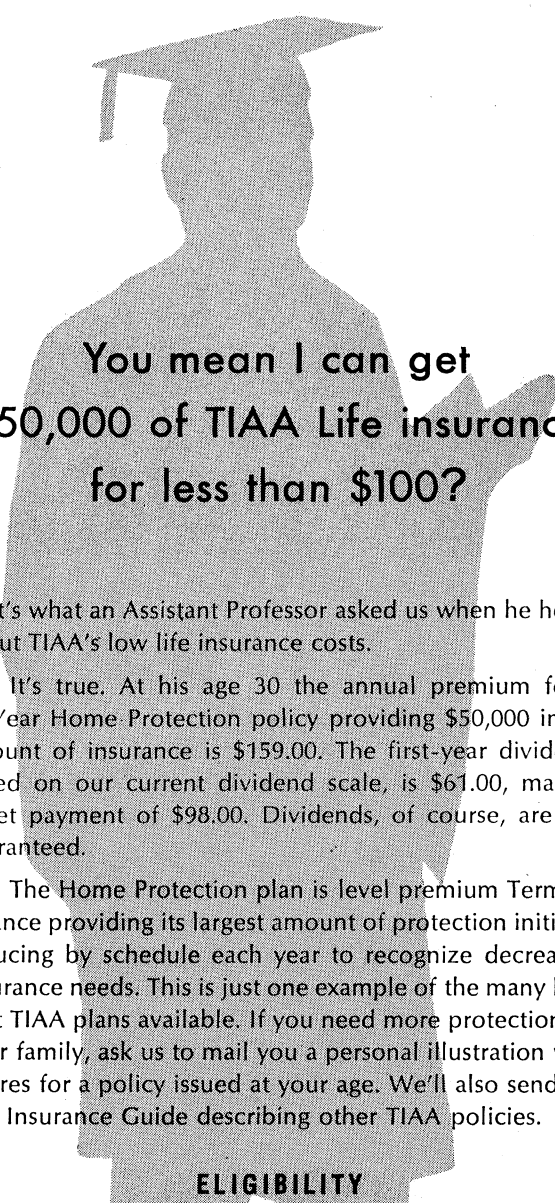
JOHN R. OLIVE
American Institute of Biological Sciences, 3900 Wisconsin Avenue, NW, Washington, D.C. 20016

New Roles for Pharmacology

Maren has presented a case for greater medical school support and recognition for pharmacology departments ("Pharmacology: Its nature in medicine," 2 Aug., p. 443). Perhaps pharmacology can make one of its greatest contributions by helping prepare many health professionals for roles in total health care. It seems unlikely that future health care demands will be filled merely by turning out more health professionals. Even if we could do this, we must find ways of better utilizing those health professionals that we have and will train.

Pharmacy is at last making some strong effort to prepare its young graduates to make a more significant contribution to patient care. The pharmacy student during his 5 (or 6) years of academic training has the greatest exposure to drugs—their use and misuse—of any health professional. The average curriculum well prepares the pharmacy student in the natural sciences and, increasingly, in the biological sciences. A key course prior to his clinical pharmacy experience is pharmacology. It is the fortunate pharmacy school that has the optimal type of pharmacology courses which aid its students in preparing for their roles as "drug-use control" specialists. More and newly designed pharmacology courses are now needed.

Perhaps pharmacologists can find the additional recognition which I believe they deserve if they look beyond their traditional roles in medical schools and determine the needed contributions which they can make to *all* the health sciences (dentistry, medicine, pharmacy, nursing, veterinary medicine). This will take courage and a realistic look at



You mean I can get \$50,000 of TIAA Life insurance for less than \$100?

That's what an Assistant Professor asked us when he heard about TIAA's low life insurance costs.

It's true. At his age 30 the annual premium for a 20-Year Home Protection policy providing \$50,000 initial amount of insurance is \$159.00. The first-year dividend, based on our current dividend scale, is \$61.00, making a net payment of \$98.00. Dividends, of course, are not guaranteed.

The Home Protection plan is level premium Term insurance providing its largest amount of protection initially, reducing by schedule each year to recognize decreasing insurance needs. This is just one example of the many low-cost TIAA plans available. If you need more protection for your family, ask us to mail you a personal illustration with figures for a policy issued at your age. We'll also send the Life Insurance Guide describing other TIAA policies.

ELIGIBILITY

Eligibility to apply for this or other TIAA life insurance is limited to persons employed at the time of application by a college, university, private school, or other nonprofit educational or scientific institution that qualifies for TIAA eligibility.

tiaa ei

TEACHERS INSURANCE AND ANNUITY ASSOCIATION
730 Third Avenue, New York, N. Y. 10017

Please mail the new Life Insurance Guide and a personal illustration.

Name _____ Your Date of Birth _____

Address _____ ZIP _____

Dependents' Ages _____

Nonprofit Employer _____

college, university, or other educational or scientific institution

Circle No. 27 on Readers' Service Card