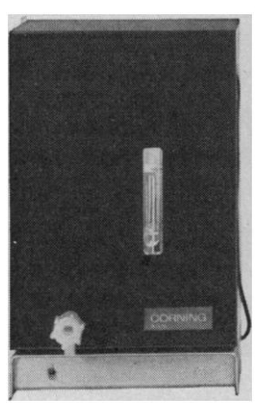
BETTER STILL, THEY'RE ALL GLASS

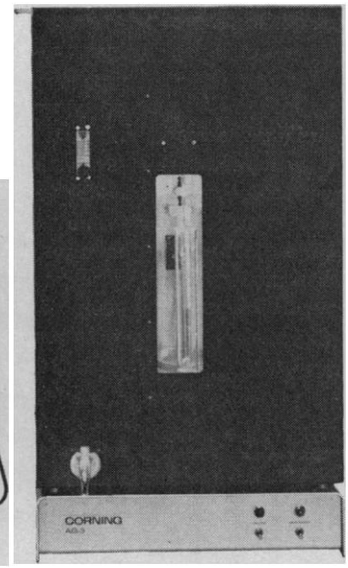
Now there's a CORNING® all-glass water distillation unit to meet *your* need for quantity, anybody's need for purity. From 1 liter per hour to 10 liters per hour.
For instance our brand new AG-3 is capable of delivering over 3 liters of ultrapure water every hour.
All its wet surfaces are glass—or Teflon*—to guarantee maximum purity, easy cleaning, and full visibility.
Single distillation gives you water with resistivity of 1.7 megohms-cm; pyrogen-free per U.S.P. XVII; total solids 0.3 ppm.

Are your pure water requirements different? Then consider our AG-1a and AG-10a models shown below. Like the AG-3, they feature all-glass components. All 3 units are compact enough to sit on a bench or floor, or hang on the wall.
If you're going to more trouble and ending up with less purity, see your Corning dealer, or send for our new bulletin that describes all of the CORNING distillation units. Corning Glass Works, Laboratory Products Department, Corning, N.Y. 14830.

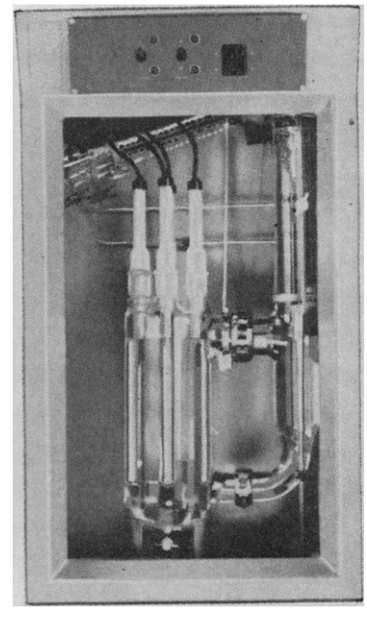
The new standards come from **CORNING**
LABORATORY PRODUCTS



MODEL AG-1a
delivers 1.4 liters per hour of all glass distilled water.



NEW AG-3
3 liters per hour, as described above.



MODEL AG-10a
10 liters per hour; same high purity, same ease of operation.

*Du Pont reg. trademark

Personnel Placement

CLASSIFIED: Positions Wanted. 25¢ per word, minimum charge $4. Use of Box Number counts as 10 additional words. Payment in advance is required. Send copy for position wanted ads to:

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1515 Massachusetts Ave., NW
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COPY for ads must reach SCIENCE 2 weeks before issue date (Friday of every week).

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SCIENCE
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POSITIONS WANTED

Administrator. Experienced, university, research center, hospital; grants, contracts, fiscal, construction, personnel. Box 347, SCIENCE. X

Anatomist, Ph.D., male. 8 years' medical and dental school teaching in gross anatomy, histology, oral histology and some embryology. Supervision of medical and dental student research in neurochemistry and studies in calcification. Desires teaching position with adequate facilities for research. Box 348, SCIENCE. 3/24

Anatomist-Electron Microscopist, Ph.D. Experienced. Publications. Strong background in histology, embryology, and histochemistry. Desires senior teaching-research position. Box 349, SCIENCE. X

Bacteriologist-Clinical Chemist, 16 years' experience including 10 years as laboratory director. Experienced in formulation, manufacturing, and sales of diagnostic reagents. Seeks responsible position in hospital laboratory, administration, research, or medically oriented business. Box 350, SCIENCE. 3/24

(a) **Biochemistry Ph.D.;** physiology minor, D.V.M.; hospital research, university teaching experience; prefers clinical or academic appointment. (b) **Bacteriology Ph.D.,** clinical, cancer, surgical research experience; desires academic or research opportunity. Write Woodward Medical Personnel Bureau, 185 North Wabash, Chicago 60601. X

Biochemical Pharmacologist, Ph.D. Broad teaching experience, independent research on renal function and metabolism in experimental nephrosis. Seeks position with medical school or hospital-affiliated renal group. Box 351, SCIENCE X

Biochemist, Ph.D., desires challenging position as research associate. Five years' experience in enzymology and instrumentation. Publications. New Haven or Waterbury areas of Connecticut preferred. Box 353, SCIENCE. X

Biochemist, Ph.D. Ten years' experience in research and teaching. Publications. Desires an institution or government position. Box 354, SCIENCE. 3/24

POSITIONS WANTED

Biochemist, Ph.D., 29. Two years' postdoctoral experience in enzymology and genetics. Interested in appointment at university, research institution, or pharmaceutical company. Box 355, SCIENCE. X

Biochemical Physiologist, M.D. 1961, M.S., 1962. Postdoctoral experience in the field of muscle biochemistry, teaching experience, publications; NIH and MDAA grant awardee; muscle biochemistry, muscular dystrophy, and related fields, research and teaching position desired. Available September 1967. Box 352, SCIENCE. 3/24, 31; 4/7

Biologist, Ph.D. Computer oriented. To develop departmental or other computer facility, have own research program. Box 332, SCIENCE 3/17

Biologist M.S. plus year of oceanography with 7 years of teaching experience desires teaching and/or research position in aquatic biology. Box 376, SCIENCE. X

Biologist, Ph.D. Genetics, botany, general biology, postdoctoral work. Five years' university teaching experience, including charge of mass-media teaching. Seek academic post in West Coast college. Box 356, SCIENCE. X

Biophysicist, Chemist, Ph.D., M.D. Broad background in chemistry, physics, physiology. Numerous publications. Areas of experience include biologic mechanisms, isotope techniques, fractionation procedures, interdisciplinary problems. Seeks position as senior faculty member in university or industrial research. Box 357, SCIENCE. 3/24

Cell Biologist. Embryology, molecular biology, electron microscopy, tissue culture. Desires position in university or college with research. Southwest, West, Far West. Teaching experience, publications. Box 358, SCIENCE. X

Cytologist-Plant Physiologist, Ph.D. Teaching experience, postdoctoral research, prefer teaching/research position. Box 359, SCIENCE. X

Embryologist, Ph.D. Histology minor. Ten years' experience research and teaching. Publications. Desires to relocate. Wishes academic teaching/research position. New England or Western states. Box 360, SCIENCE. X

Entomology, Ph.D. Insect physiology and toxicology. Three years' postdoctoral research. Desires research, academic, industrial position. Box 361, SCIENCE. X

Geneticist, Ph.D., 1959. Biology teacher. Many research publications in fungal genetics, molecular biology, and plant pathology. Seeks teaching and research position. Box 362, SCIENCE. X

Medical Writing, rewriting, editing, literature searches. More than 15 years' experience. Excellent references. Free-lance. Box 363, SCIENCE.

Microbiologist-Biochemist, Ph.D. Widely experienced in industrial fermentations; approaching retirement age, but desires to remain active. Desires research and/or teaching position with an academic or research institute. Objective of research and teaching of main importance. Midwest preferred. Box 364, SCIENCE. X

Neuroanatomist, Ph.D., M.D. Extensive academic research, administrative experience and teaching. Presently at a top Eastern school. Desires to relocate. Box 365, SCIENCE. X

Organic Chemist. Ph.D. Experience includes mechanism research, organic fluorine chemistry, and biochemical synthesis. Desires teaching with research opportunities or research position. Box 366, SCIENCE. X

Pharmacologist, D.V.M., Ph.D. Extensive teaching, research background in medicine, comparative pharmacology; administrative experience. Desires academic or industrial position. Box 367, SCIENCE. 3/24

Pharmacologist, M.S. Seeks administrative position in industry or contract research house. Four years' industrial experience at the bench and in report writing. Seeks growth potential. Box 368, SCIENCE. X

Physicist, Ph.D. Administration, research, or teaching. Academic and industrial experience. Grants and publications. Box 369, SCIENCE. X

Plant Biochemist-Physiologist, Ph.D. Seeks teaching and research or research position. Experienced in photosynthesis, radiobiology, ultrastructure, and instrumentation. Available August. Box 374, SCIENCE. X

Senior Physiologist-Biochemist. Requests temporary appointment. Box 370, SCIENCE. X

POSITIONS WANTED

Professor from California, extraordinary teacher, biology, physiology. Thirteen years' experience, few publications. Offer me research and teaching freshman. Recommendations, vita. Dr. Charles E. Smith, Biology, San Jose State College, San Jose, California 95114. 3/17, 24, 31; 4/7

Vertebrate Zoologist. Ph.D., age 29, postdoctorate, teaching experience. Seeks research/teaching position. Publications. Box 371, SCIENCE. X

Veterinarian with extensive experience in large primate colony and research desires challenging position combining laboratory animal medicine and research. Box 342, SCIENCE. 3/17

Virologist, Ph.D. Publications. Desires teaching/research or research position at medical or veterinary school or government laboratory. Box 372, SCIENCE. 3/24

Zoologist, 38, M.D., Ph.D. Teaching and research experience. Desires academic position that includes teaching and/or student health work. Box 373, SCIENCE. X

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INVITATION TO PROFESSIONAL CAREERS (a) **Biochemistry Director**, supv lab, teach techs; conduct research; large univ hosp w academic rank; to $25,000; E. (b) **Physiologist/Biochemist** supv many research projects & techs; $10,000 up; fine lab large med school; MidW. (c) **Chief Toxicologist** drug, chemical evaluations; heavy responsibility; $20,000 up; research labs; E. (d) **Virologist** oncogenic studies, leading radiation lab; high salary; MidW. (e) **Biochemist/Physiologist** teach, research appoint; $12,000–$15,000; speciality college; Calif. (f) **Anatomist** Dept Chief; supv senile diseases research; new gerontology inst, univ affil; $10,000–$15,000; E. (g) **Psychologist** mental health center; $16,000; SE. R.S.V.P. **WOODWARD MED. PERS. BUREAU, 185 N. WABASH, CHICAGO 60601.** X

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Ph.D. preferred. M.S. or equiv. considered. Organize & direct Chemistry Div. of 400-bed teaching hospital. Opportunity for career growth. Liberal Education Benefit.
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The National Communicable Disease Center of the Public Health Service offers exciting and challenging careers for Ph.D. scientists in the Career Federal Service. Excellent salaries and generous benefits apply. For more detailed information about the Center and these positions, write to: **Jimmy L. Pedigo, Chief Recruitment & Placement, Personnel Management, National Communicable Disease Center, Atlanta, Ga. 30333**

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TWO POSITIONS—
VIROLOGIST AND IMMUNOLOGIST

Two microbiologists, as noted above, are required on April 1, 1967, by the DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY, MEDICAL COLLEGE, UNIVERSITY OF MANITOBA, BANNATYNE AND EMILY STREETS, WINNIPEG 3, MANITOBA, CANADA.

The virologist should have a particular interest in basic aspects of medical virology. The immunologist should be competent in immunochemistry.

The department has an active research program and is responsible for teaching medical and dental undergraduate students and graduate students. These new members will be able to prosecute their own interests in research and will be responsible for some teaching, chiefly of graduate students.

Applicants should indicate their paritcular interests and submit curriculum vitae to **Dr. J. C. Wilt, Professor and Head of the Department**, at the above address, as soon as possible.

POSITIONS OPEN

CHEMIST: M.S. or experienced B.S. Experienced in clinical biochemical procedures and modern analytical methodologies. Opportunities for academic advancement. Please write to: **Hipolite V. Nino, Ph.D., Clinical Biochemistry Laboratory, North Carolina Memorial Hospital, University of North Carolina, Chapel Hill, North Carolina 17514.**

Clinical Chemist, M.S. or equivalent, to supervise chemistry laboratory in a 523-bed teaching hospital. Strong interest in development work preferred, attractive salary. Apply: **Sam Frankel, Ph.D., Director, Division of Biochemistry, Department of Laboratory Medicine, Jewish Hospital, 216 S. Kingshighway, St. Louis, Mo. 63110.**

Biochemist, M.D. and/or Ph.D. for a 523-bed teaching hospital affiliated with adjacent Washington University Medical School to join two Ph.D. Biochemists. Excellent facilities and growth potential, attractive salary, part-time responsibility in either clinical chemistry or endocrinology laboratory, strong research interest. Apply: **William E. Stehbens, M.D., Ph.D., Pathologist-in-Chief and Director, Department of Laboratory Medicine, Jewish Hospital, 216 S. Kingshighway, St. Louis, Missouri 63110.**

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A new position has been established by a leading scientific instrument company for a computer applications coordinator.

This man will play a leading role in planning and implementing marketing and sales efforts in life science research computer applications.

He will recommend software and share in the responsibility of training company personnel in computer applications.

He will recommend product development, consistent with the needs and opportunities in the life science research market.

Applicants should have a knowledge of programming for scientific applications, and one to three years applicable experience in an educational, research, or corporate environment. Interest in scientific product applications and in progressing to increasingly responsible positions in marketing management is desirable.

Box 378, SCIENCE

FACULTY POSITION: Position in Biology starting September, 1967. Ph.D. preferred. Interest in General Science, Microbiology desirable. Salary and rank depending upon qualifications. **Write: Director, University of Hawaii, Hilo, Hawaii.**

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Unusual and excellent opportunity for an experienced, versatile, competent, and ambitious person with managerial ability. Enclose *Curriculum Vitae*.

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SCIENCE EDITOR/WRITER. To edit, help revise, and occasionally rewrite journal article manuscripts, monographs, etc., and to write semi-popular science articles. Applicants should have some background in physical science, and excellent language skills. We are a non-profit basic research organization, supported by the National Science Foundation, devoted to advancement of some of the most challenging areas in the atmospheric sciences. Write **Personnel Department, National Center for Atmospheric Research, Boulder, Colo. 80302.** *An Equal Opportunity Employer*

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An excellent new opportunity currently exists in our laboratories for a B.S. or M.S. level Biochemist with substantial experience.

Interest and experience should be directed toward research in the isolation, purification and characterization of proteins and other natural products of therapeutic importance.

To learn more about this position, send a brief description of your professional background or call J. R. Grover collect (815) 932-6771. Our representatives will also be at the Federation meetings.

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Our expanding translation activities reflect work in the forefront of research. Steady employment is assured all suitable applicants.

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Applications are invited for a Senior position in the Department of Pharmacology to conduct research on the role of platelets in thrombus formation. Investigations to include methods development as well as basic and applied research. Experience desirable but not essential.

Send detailed resume and salary requirements to: A. Kaloyanides

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Applications are invited for two ASSISTANT PROFESSORSHIPS, one in the field of ORGANIC CHEMISTRY and one in INORGANIC CHEMISTRY. It is intended to appoint candidates who would, respectively, develop active programmes of research in these two fields. Salary in the range of $9,000-$10,000 with a contribution towards moving expenses. Medical insurance and pension benefits included.

Applications, with a curriculum vitae, list of publications and the names of two referees, should be sent as soon as possible to **Professor B. E. Conway, Chairman, Department of Chemistry, University of Ottawa, Ottawa 2, Ontario, Canada.**

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400 Bed Expanding General Hospital Offers Excellent Opportunity For a Clinically Oriented Microbiologist. Outstanding Research Facilities and Opportunity for Research. Will Direct and Supervise Staff of Four Microbiologists in Bacteriology, Mycology and Parasitology. Ph.D. preferred with Starting Salary of $13,500. Full Benefit Program. Send Resume to **Dr. H. L. Wolin, The Brookdale Hospital Center, Brookdale Plaza, Brooklyn, N.Y. 11212.**

Opportunity for Just-Graduated or Young Ph.D. to work on Steroid Hydroxylations in Adrenal Glands. Physiology-biochemistry background preferred. Inquiries to **Dr. Peron, Director of Steroid Training Program, Worcester Foundation for Experimental Biology, Shrewsbury, Mass.**

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Predoctoral Traineeships in Biochemistry are available at the University of Kentucky to qualified applicants who are U.S. citizens. Stipends for first-year Trainees are $2,400 plus tuition, plus a $500 allowance for each dependent. The department is well equipped and the research interests of the staff are diverse. Inquiries should be addressed to **Dr. George W. Schwert, Chairman, Department of Biochemistry, Medical Center, University of Kentucky, Lexington, Kentucky 40506.**

Research Assistant or Graduate Assistant. An excellent opportunity to pursue an advanced degree in physiology or bioengineering while working in environmental physiology research. Write for details to: **Dr. Rodney Rhoades, Center for Air Environment Studies, 301 Engineering Unit "C," The Pennsylvania State University, University Park, Pa. 16802.**

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New position open for a Medical Electronics Product Manager to head our rapidly growing program. Responsibilities include planning and coordinating Medical Electronics product development, promotion, and worldwide marketing. Position is Chicago-based, with growth-oriented instrument subsidiary of a major pharmaceutical company. Moderate travel. Applicants should have one to five years applicable experience. High promotability. Salary open. An equal opportunity employer.

Box 375, SCIENCE

RADIATION BIOLOGY—Two appointments starting September 15, 1967. To teach general and advanced courses, and direct research in an expanding graduate-level program. Program located in new OSU Radiation Center. Require Ph.D. with broad background in field. Salary and rank commensurate with qualifications and experience.

GENERAL BIOLOGY—One appointment starting September 15, 1967. Require Ph.D. with background in Developmental Biology, Radiation Biology, History of Biology, or other interdisciplinary areas of Biology. Involves participating in teaching General Biology course and upper division-graduate courses in area of specialization, plus directing graduate research. Salary and rank commensurate with qualifications and experience. Send resume to: **Dr. Donald G. Humphrey, Chairman, Department of General Science, Oregon State University, Corvallis, Oregon 97331.**

COURSES

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The University of Saskatchewan, Saskatoon, Canada, will sponsor a special summer course in tissue culture from August 16 to September 16, 1967, with S. Fedoroff and J. F. Morgan as course coordinators.

Laboratory work, discussions, seminars and lectures will cover the basic principles of mammalian and plant tissue culture and the application of these techniques to cell physiology, cytology, biochemistry, virology, genetics and oncology. The course is intended primarily for individuals with doctor's or master's degrees but other applicants will be considered depending on available space.

The fee for the course will be $140. University residence accommodation will be available at $7.00 per day, including meals.

Applications should be submitted by March 31, 1967.

Inquiries should be directed to **Adult Education Service, Extension Division, University of Saskatchewan, Saskatoon, Canada.**

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● **WANTED—ORIGINAL**

35mm MOUNTS

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Pressure is building up these days on Thomas S. Fudge, a sales executive of Eastman Chemical Products, Inc. (Subsidiary of Eastman Kodak Company). By 1975 his success in responding to it should be apparent from a map of the United States that plots the extent and severity of manganese deficiency in American soil. Tom Fudge is expected to make the Mn-deficient acreage shrink and shrink.

Manganese is the one and only trace element in soil that directly concerns Mr. Fudge. Zinc, copper, vanadium, and other trace elements are also important to agriculture but not in a business way important to Tom Fudge. Only manganese.

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In point of fact, these cameras have made picture-taking so simple and rewarding that there has been a vast upsurge in the number of pictures taken and consequently in the demand for photofinishing service, for photographic developer, and ultimately for the hydroquinone that goes into most of it. We make hydroquinone by a process in which manganese dioxide enters and manganese sulfate comes out. Manganese sulfate is therefore coming out pretty fast at present. Would you have us dump it somewhere? You wouldn't like that one bit, and neither would we—particularly since our hydroquinone plant takes the same insoluble MnO_2 that some people try to use in fertilizer and changes it to a fully soluble source of those Mn^{++} ions without which, for example, citrus groves on impoverished soil languish in chlorosis.

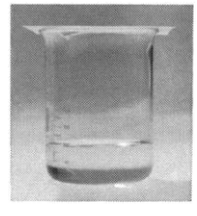
And that is why, when Tom Fudge of Eastman Chemical Products, Inc., Kingsport, Tenn. 37662, goes about insisting on the importance of the trademark TECMANGAM *in soil improvement he is performing a reasonable, beneficial, and highly unusual role. It comes in 50-lb bags. Ask Tom for pertinent experiment station literature.*

Adventure in TLC

In the interests of further extending TLC on precoated scissorable media, our French affiliate Kodak-Pathé has sent us a modest quantity of a new EASTMAN CHROMAGRAM Sheet to let Americans try. Our colleagues at Vincennes have produced a thin, microporous layer of polyamide with a structure that eludes the optical microscope but is shown by electron microscopy to be a sponge of filaments and membranes with globular chambers and connecting canals. In the large it looks about as chalky white as the now familiar silica gel- or alumina-coated CHROMAGRAM Sheet, but in chromatographic behavior it differs greatly from them and from glass plates coated with polyamide powder. Whether different means better depends on what you are trying to do. Those who discover its great worth will have no cause to share glory, for they will have done it with little help from us, beyond a hint that the medium seems particularly promising for the separation of phenolic compounds, low-MW aromatic nitro compounds, and 2,4-dinitrophenylhydrazones of aldehydes and ketones.

The material on the poly(ethylene terephthalate) support is a sorbent for partition chromatography. It requires no activation. A liquid stationary phase of water, aqueous buffer solution, a complexing solution, or dimethylformamide can be introduced before spotting. This leads to the possibility of combining partition TLC in one dimension with electrophoresis in the other.

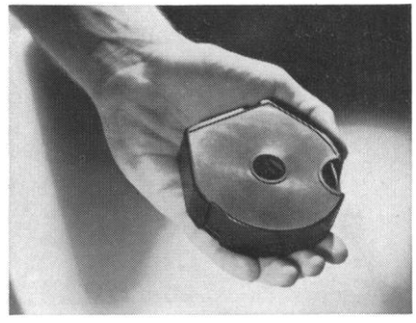
The very special feature appears when after migration the coating is exposed to ethanol vapor. The porous polymeric structure thereupon collapses and becomes a strong, strippable transparent film—transparent down to 240mμ for transmission spectrophotometry.



There are a few more facts we can and should send you about the new material, but not many more. The facts are of little value without a box of the sheet: $25.30 for twenty sheets, 20 x 20cm. Please specify Type K541V for this adventure. (EASTMAN CHROMAGRAM *Developing Apparatus is priced $35.50.) From Distillation Products Industries, Rochester, N. Y. 14603 (Division of Eastman Kodak Company).*

Prices subject to change without notice.

Single concept



This, in some educators' jargon, is a single-concept film. From the armamentarium of up-to-date primary and secondary school techniques, we commend it to the attention of those who feel moved to scrutinize for reasonableness the traditional practices governing lab sections for college freshmen and sophomores.

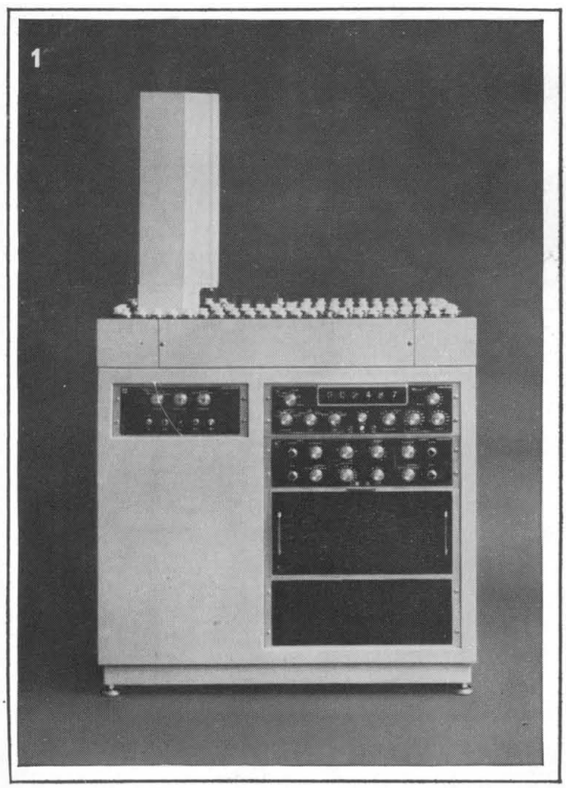
A single-concept film is not supposed to be a very fancy affair. It is nothing at all like a movie that costs $60,000 to produce. It might run no more than 8 feet long, or it might run as long as 50 feet—whatever is required to show what needs to be shown and no more. The student consults it as he would a page in a lab manual. If he consulted it before performing an assigned lab exercise, just watching the film a few times could take the place of the part of the exercise that answers the questions already answered long ago by the founding fathers of the science. He could then use the precious actual lab time to answer some more profound questions that you might propound.

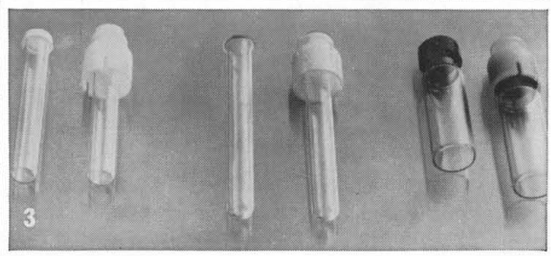
Now is the right time for college teachers—or any teachers, for that matter—to start thinking about what they would like to have happen in single-concept films. New standard formats are shaping up so that the same old tiresome operating problems need not be solved over and over again. We have worked out a cartridge design that other manufacturers can adopt. The new and higher-quality super 8 films that you will buy or make can be easily loaded into it for instant use on special study-type projectors, easily kept track of in school, and easily unloaded for showing on any of the vast number of super 8 projectors already waiting in private homes.

We have been out talking to publishers. We tell them our ideas about hardware, about how to bring films into existence and before the eyes and ears of the students at the lowest possible cost. We beg to be told where we are wrong, for we are not teachers.

To join the dialogue as a purveyor of curriculum materials, as an educator, or as a professor who would never be happy with material not of your own creation, address some questions to Eastman Kodak Company, Motion Picture and Education Division, Rochester, N. Y. 14650.

Kodak





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For counting large numbers of gamma samples, one of Nuclear-Chicago's four new BIOSPAN™ Gamma Counting Systems will fill your exact requirements with unprecedented reliability and convenience.

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Select according to your needs—Four new models are available in the 4200 Series of Gamma Counting Systems. Choose either the single- or dual-channel system, each with 2- or 3-inch diameter NaI(Tl) crystals.

To determine which of these systems best meets your specific counting needs, please consult your Nuclear-Chicago sales engineer or write directly to us.

NUC:B-4-251

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