

BLACKSTONE

OFFERS THIS COMPACT ULTRASONIC CLEANER

MODEL SP-100

Stainless steel
1-5/8 quart tank
100 watt output
40± 2 KHz frequency



**ALL PURPOSE CLEANER
FOR INDUSTRIAL APPLICATIONS,
R&D, SCIENTIFIC, MEDICAL
AND DENTAL LABS**

Model SP-100 is a self contained unit producing high intensity ultrasonic action for rapid and efficient cleaning in continuous duty cycle.

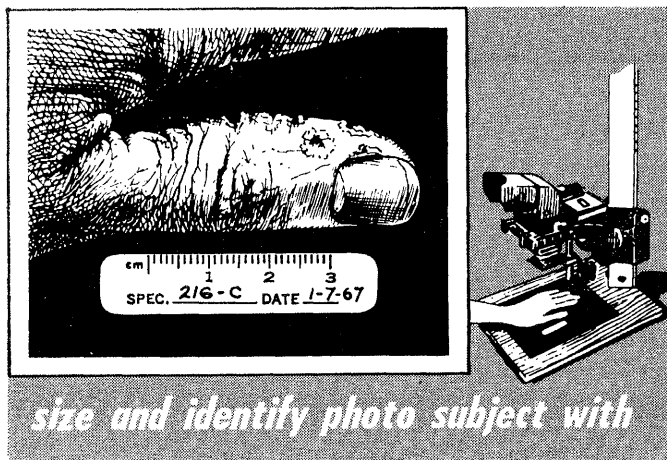
FREE! Send a sample of your work and describe your cleaning process. We will precision clean it and show you how to lower your cleaning cost.



UCON® SOLVENTS

BLACKSTONE ULTRASONICS, INC.
720 Center St., Sheffield, Pa. 16347
Phone: 814-968-3221

Circle No. 109 on Readers' Service Card



TIME METRIC SCALE LABELS

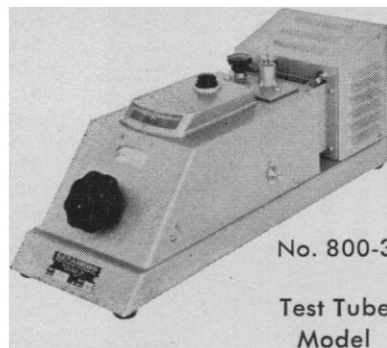
Make size and identification of subject a permanent part of photograph with easy-to-use labels. Available in two sizes with imprinted numbers on calibrated scale of 3 cm or 6 cm and space for recording specimen and date. Permanent or removable, self-sticking adhesive allows placement on or next to subject. Write for free literature and samples.



PROFESSIONAL TAPE CO., INC.
365 EAST BURLINGTON ROAD
RIVERSIDE, ILLINOIS 60546

Circle No. 103 on Readers' Service Card

Klett Summerson Photoelectric Colorimeter

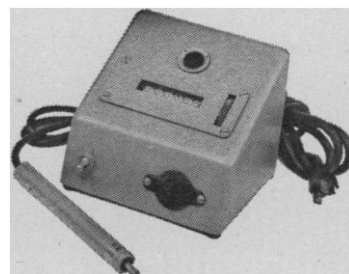


No. 800-3

Test Tube
Model

KLETT COLONY MARKER and TALLY

This instrument takes the drudgery and error out of the counting of bacterial colonies.



Klett MANUFACTURING CO., INC.,
179 East 87th Street, New York, 28, N.Y.

Circle No. 101 on Readers' Service Card

Reprints from Science

The following reprints are now available from AAAS Reprints, 1515 Massachusetts Ave., NW., Washington, D.C. 20005. Please enclose payment with order. Do not send currency.

- H. J. Brudner, "Computer-Managed Instruction" (29 Nov. 1968), 8 pages
- C. A. Doxiadis, "Man's Movement and His City" (18 Oct. 1968), 12 pages
- M. F. Gilula and D. N. Daniels, "Violence and Man's Struggle To Adapt" (25 Apr. 1969), 12 pages
- G. Hardin, "The Tragedy of the Commons" (13 Dec. 1968), 8 pages
- L. D. Harmon and K. C. Knowlton, "Picture Processing by Computer" (4 Apr. 1969), 12 pages
- L. D. Jaffe, "Surveyor Lunar Landings" (16 May 1969), 16 pages
- R. E. Schultes, "Hallucinogens of Plant Origin" (17 Jan. 1969), 12 pages
- A. T. Weil, N. E. Zinberg, J. M. Nelsen, "Clinical and Psychological Effects of Marijuana in Man" (13 Dec. 1968), 12 pages

Reprints of other articles published since 1 September 1968 can be made available in quantities of 25 or more for classroom use. Identify each article by author, title, page number, and issue date.

PRICES AND TERMS

One reprint—\$1.00

Two to nine reprints—60¢ each

	10 reprints	25 reprints	50 reprints	100 reprints
4 pages	\$4.00	\$ 8.00	\$15.00	\$25.00
8 pages	\$5.00	\$11.00	\$20.00	\$35.00
12 pages	\$5.50	\$13.00	\$25.00	\$45.00
16 pages	\$5.50	\$13.00	\$25.00	\$45.00

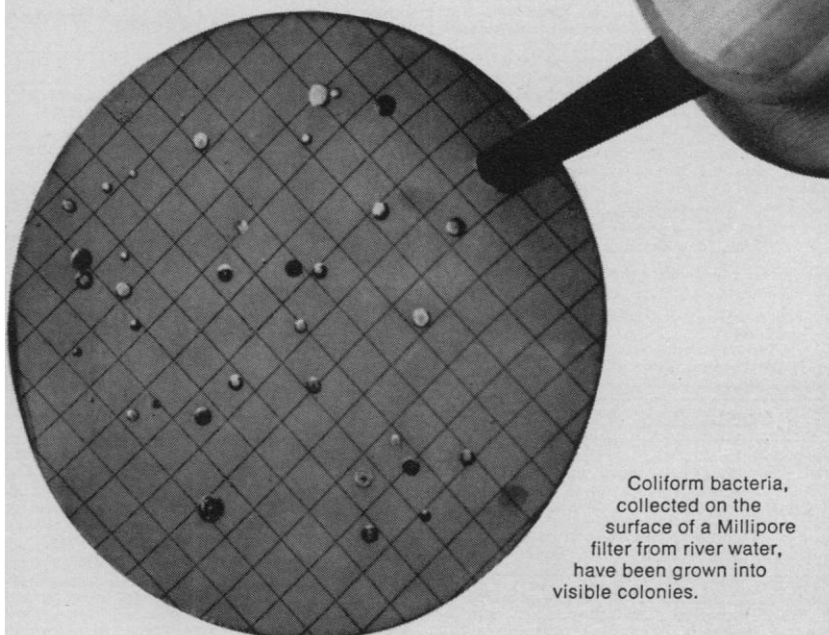
Index of Advertisers

5 September 1969

Academic Press	1044
American Optical Corp.	1056
Amersham/Searle Corp.	952
Amicon Corp.	1038
Bausch and Lomb,	
Analytical Systems Div.	1035, 1037
Bausch and Lomb,	
Scientific Instrument Div.	1049
Beckman Instruments, Inc.	963
Beckman, Spinco Div.	938
Bio-Rad Laboratories	1036
Blackstone Ultrasonics, Inc.	1052
Brinkmann Instruments	945, 1042
Bronwill Scientific, Inc.	1050
Buchler Instruments Inc.	947
Cambridge Thermionic Corp.	1046
Cambridge University Press	1051
CCM Information Corp.	949
Charles River Breeding	
Laboratories, Inc.	1047
Chemical Rubber Co.	1043
Clevite Corp., Brush Instrument	
Div.	965
Corning Glass Works	1039
Curtin Scientific Co.	957
Electronic Associates, Inc.	948
Hamilton Co.	943
International Equipment Co.	970
Intertechnique Instruments, Inc.	
	951, 1055
ISCO	944, 1044
Jeolco U.S.A. Inc.	964
Klett Manufacturing Co., Inc.	1052
Labindustries	942
Learning Foundations	
International, Inc.	1046
Leitz, E., Inc.	968
LKB Instruments Inc.	956
Lourdes Instrument Corp.	1045
Mettler Instrument Corp.	939
Miles Laboratories, Inc.	960
Millipore Corp.	1053
National Appliance Co.	950
New England Nuclear	1040
Nikon Inc.	966
Norton Plastics and Synthetics Div.	1051
Ohaus Scale Corp.	1043
Packard Instrument Co., Inc.	1034
Parr Instrument Co.	1040
Perkin-Elmer Corp.	961, 1034
Phipps and Bird	1048
Professional Tape Co., Inc.	1052
Quigley-Rochester, Inc.	954
Reeve Angel, H., and Co., Inc.	1048
REVCO, Inc.	1040
Sage Instruments, Inc.	1038
Sargent-Welch Scientific Co.	958
Shandon Scientific Co., Inc.	1042
Sorvall, Ivan, Inc.	959
Technicon Corp.	946
Tenney Engineering, Inc.	1046
Unitron Instrument Co.	953
Wilkens-Anderson Co.	1040
Worthington Biochemical Corp.	1041
Zeiss, Carl, Inc.	955

5 SEPTEMBER 1969

singled
out for
microbiological
analysis



Coliform bacteria,
collected on the
surface of a Millipore
filter from river water,
have been grown into
visible colonies.

Millipore filters make it possible to isolate microorganisms from fluids and concentrate them for identification and analysis.

All microorganisms larger than the filter pore size are retained directly on the filter surface and lie in a plane where they may be readily cultured, examined and counted.

This ability, applied to large and therefore representative fluid samples, has increased the accuracy and sensitivity of many analytical procedures.

These unique filters are thin plastic membranes with millions of pores per square centimeter of filter surface. They are available in precise pore sizes ranging from 14 microns down to .025 micron.

Write for information on filters, apparatus and detailed analytical techniques. Millipore Corporation, Bedford, Massachusetts 01730.

MILLIPORE
The standard of precision in microanalysis

Circle No. 35 on Readers' Service Card

Personnel Placement

POSITIONS WANTED: 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertising.

POSITIONS OPEN. \$7 per column line, if publisher's type is used (12 lines = 1 inch). Minimum ad is 12 lines or \$84. All ads using larger than 6 point type will be billed as display ads at \$90 per inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed to the nearest half inch. Payment in advance is required except where satisfactory credit has been established.

COPY for ads must reach SCIENCE 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement advertising to:

SCIENCE, Room 211
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Replies to blind ads should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Biologist. Ph.D. Strong chemistry background. Desires research and/or teaching position. Consider administration. Could teach plant physiology, genetics, biochemistry, cytology, enzymology. Academic and industrial experience. Publications. Currently Research Associate, pursuing somatic hybridization of plants. Box 332, SCIENCE. X

Botanist Ph.D. October 1969. Seeks research position. Background in plant physiology and biochemistry. Research experience: tissue culture, biosynthesis, enzymology. Box 326, SCIENCE. 9/5

Cell Biologist. Ph.D. Senior researcher-teacher, strong research experience, supervision of graduate students, 15 years' electron microscopy, quantitative cytochemistry, autoradiography, tissue culture. Principle investigator 3 major active grants and contracts, \$100,000/year, equipment. Differentiated cell systems in vitro, cancer cell cycle analyses, carcinogenesis in culture. 50 publications, reviews. Desires responsible academic/research position at university/research institute. Box 333, SCIENCE. X

Ecologist. Insect/Plant. Ph.D. Broad experience in agricultural and forest ecosystems. 40 publications. Desires research and/or teaching position in a cool climate. Box 334, SCIENCE.

POSITIONS OPEN

UNIVERSITY OF LIVERPOOL Nuffield Unit of Medical Genetics

Applications are invited for the post of Lecturer or Senior Lecturer in Chemistry in the Nuffield Unit of Medical Genetics, Department of Medicine, to participate in research on genetic aspects of drug metabolism. Applicants should (i) have received training in Organic Chemistry and (ii) have had experience in using the techniques of gas chromatography and mass-spectrometry. Acquaintance with one or more of the following disciplines would also be advantageous:

- Organic Synthesis.
- Pharmaceutical Chemistry.
- Pharmacokinetics.
- Biochemistry of drug metabolism.

Salary Scales:

Lecturer: £1,240-£2,850 per annum.

Senior Lecturer: £2,905-£3,670 per annum.

Applications stating age, qualifications, and experience, together with the name of three referees, should be received not later than 30 September 1969, by the Registrar, The University, P.O. Box 147, Liverpool L69 3BX, from whom further particulars may be obtained. Please quote Ref:RV/2806/S(U.S.A.).

POSITIONS OPEN

ASSOCIATE EDITOR for journal of science and public affairs. We provide objective information about military and peaceful uses of nuclear energy, CBW, and pollution. Now expanding rapidly, seeking wider national audience. Science and science writing background required. Send résumé, samples of work, state salary requirement: **Personnel, ENVIRONMENT, 438 North Skinker Blvd., St. Louis, Missouri 63130.**

WANTED: A SCIENCE EDITOR

A major eastern university press is looking for a person (male or female) with imagination, energy, and ability with the English language, combined with an interest in science generally and a background in some branch of science. Experience in editing and publishing is desirable but not essential if the candidate has the ability to deal intelligently with scientific ideas and to work amicably with scientists. If interested, write, sending a résumé (include specific educational background) to Box 331, SCIENCE.

AUSTRALIA THE UNIVERSITY OF MELBOURNE CHAIR OF MICROBIOLOGY

This Chair has become vacant as a result of the recent death of Professor S. D. Rubbo who was also Head of the Department.

The staff of the Department is 2 Professors (including the Chair now being advertised), 2 Readers, 5 Senior Lecturers, 4 Lecturers and 2 Senior Demonstrators. One of the Lectureships is at present vacant and one of the Senior Lectureships will become vacant through retirement in 1970. Parttime external demonstrators assist with some of the practical classes. There is a permanent technical staff of about 30. The Department has at present 3 post-doctoral Fellows, 6 Ph.D. students, 8 M.Sc. students, and 10 B.Sc. (Hons.) students, all engaged in full-time research.

A Microbiological Diagnostic Unit is housed in the building and is under the formal direction of the Head of the Department.

The Department is responsible for teaching Microbiology in the Faculties of Medicine, Science, Dental Science and Agricultural Science.

The research interests of the academic staff are concentrated mainly in the fields of virology, bacterial genetics and metabolism, industrial microbiology, immunology and epidemiology.

Salary: At present \$12,000 per annum.

Further information, including details of superannuation, travel and removal expenses, housing assistance and conditions of appointment, is available from the Registrar. All correspondence (marked confidential) should be addressed to the Registrar, The University of Melbourne, Parkville, Victoria, 3052, Australia. Applications close on 15th October, 1969.

Immuno-Biochemist Ph.D.

Research position for a Biochemist with a strong background in Immunology. Experience with the fractionation of serum proteins & a knowledge of blood banking reagents is desirable. This position is with a new group responsible for the long range improvement of existing diagnostic reagents.

If interested send curriculum vitae including salary requirements to Mr. Richard Groben.



ORTHO DIAGNOSTICS
Raritan, New Jersey 08869

© D. P. 1969

An Equal Opportunity Employer

POSITIONS OPEN

SR. CHEMICAL PHARMACOLOGIST

Medium-sized pharmaceutical and proprietary firm desires Ph.D. trained in pharmacology and biochemistry, with 0-5 years' experience, to organize a program in basic and applied research in the areas of CNS activity, gastrointestinal function, dermatology and drug metabolism oriented to proprietary drugs. The position offers unusual opportunities for personal growth through investigation in varied research areas and working with scientists in outside laboratories.

Send complete resume in confidence to Personnel Mgr.

CARTER
PRODUCTS RESEARCH
A Division of CARTER-WALLACE, Inc.
Cranbury New Jersey
An Equal Opportunity Employer

ASSOCIATE DIRECTOR PHARMACOLOGY

Applications are invited for the position of Associate Director for the Department of Pharmacology, Ayerst Research Laboratories, located in Montreal, Canada.

This is a challenging and unique opportunity for a senior pharmacologist with ten or more years' experience in drug research. More than 300 people are involved in various aspects of drug research in modern, well equipped laboratories for the worldwide Ayerst operations.

Please send résumé in confidence to the Personnel Department, Ayerst Laboratories, P.O. Box 6115, Montreal, Canada.

DIRECTOR OF CLINICAL PATHOLOGY—The Methodist Hospital of Bklyn is a 500-bed acute General Hospital affiliated with Down State Medical School of the State University of N.Y. Our Dept. of Laboratories is approved for Resident training, is located in a completely remodeled, modern well-equipped facility & is expanding its professional staff. The talents of a full time Clinical Pathologist are now required to develop & coordinate this division's activities. Faculty rank will accompany appointment as Director of Clinical Pathology. We expect the successful candidate to be able to assume the responsibility of planning & executing a sound service, teaching and research program. Academic backgrounds preferred. Address curriculum vitae & other information to: S. Werthamer, M.D., Director of Laboratories, Methodist Hospital of Brooklyn, 506 6th St., Brooklyn, N.Y. 11215.

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

Authoritative, Valuable Reference Book
"PROTEIN-ENRICHED CEREAL FOODS
FOR WORLD NEEDS"

\$6.50 U.S.A. — Overseas \$7.50

343 pages • Technical, practical methods for solving human protein shortage • 38 world-recognized contributors • Remit to



American Association of Cereal Chemists
1821 University Ave., St. Paul, Minn. 55104

OXYGEN¹⁸

For new lowest prices call

BIO-RAD Laboratories 32nd and Griffin,
Richmond, Calif. 94804
Phone (415) 234-4130. Ask for Isotope
Sales. Write for new catalog, Price List J.