

Index of Advertisers

17 April 1970

American Optical Corp.	412
American-Standard, ConSeps Dept.	411
Barnstead, Div. of Sybron Corp. .	320
Bausch & Lomb	289
Beckman Instruments, Inc.	305, 306
Brinkmann Instruments	311, 400
Brush Instrument Div., Gould Inc.	302
Charles River Breeding Laboratories, Inc.	407
Dole Co.	309
Hamilton Co.	303
Harvard Apparatus	386A
Hewlett-Packard, Santa Clara Div.	308
International Applied	404
ISCO	316
Klett Manufacturing Co., Inc. ...	402
Leitz, E., Inc.	318
LKB Instruments Inc.	288
Materials Analysis Co.	299
Matheson Gas Products, Div. of Will Ross, Inc.	317
Mercer Glass Works, Inc.	401
Nalgene Labware Div., Nalge Co., Div. of Sybron Corp.	301
New Brunswick Scientific Co., Inc.	404
Ohaus Scale Corp.	401
Olympus Corporation of America	304
Orion Research	312, 313
Overly Manufacturing Co.	400
Philips Electronic Instruments	292, 293
Photo-Technical Products Div., subsidiary of Ehrenreich Photo- Optical Industries, Inc.	294
Precision Scientific Co.	296
Professional Tape Co., Inc.	402
Sage Instruments, Inc.	314A
Saunders, W. B., Co.	310
Stechert-Hafner Inc.	404
Teachers Insurance and Annuity Assoc.	408
Thermolyne, Div. of Sybron Corp.	295
Travel Wholesalers International	406
Ultrasonic Devices, Div. of Kenyon Electronics	405
Union Carbide Corp., Linde Div.	297
Varian/Cary	298
Wang Laboratories, Inc.	314
Winthrop Laboratories	402
Yellow Springs Instrument Co. ...	403
Zeiss, Carl, Inc.	307

17 APRIL 1970

Our Breed-in.

They're the class of '70. Inbred mouse strains developed and maintained by Dr. Leonell C. Strong.

These strains of mice have been the most generally accepted in cancer research. And in other studies requiring inbred mice. Recently, they've been the toast of the Continent through a limited marketing program by Charles River France. Now, we'll produce them commercially this Spring for the first time in the U.S. DBA /2, C57BL /6, C3H, A and BALB /c. And from these, appropriate hybrid lines.

All foundation and expansion colonies have been Caesarean-derived and maintained in germfree isolaters. All of your inbred mice will be produced under our COBS® system. Nearly all strains will also be available in germfree. In all, the same top quality you've received in our rambred mice.

We'd be happy to make your research effort a Strong one. Call or write Charles River Breeding Laboratories, Wilmington, Mass. 01887 or Charles River France in Elbeuf.

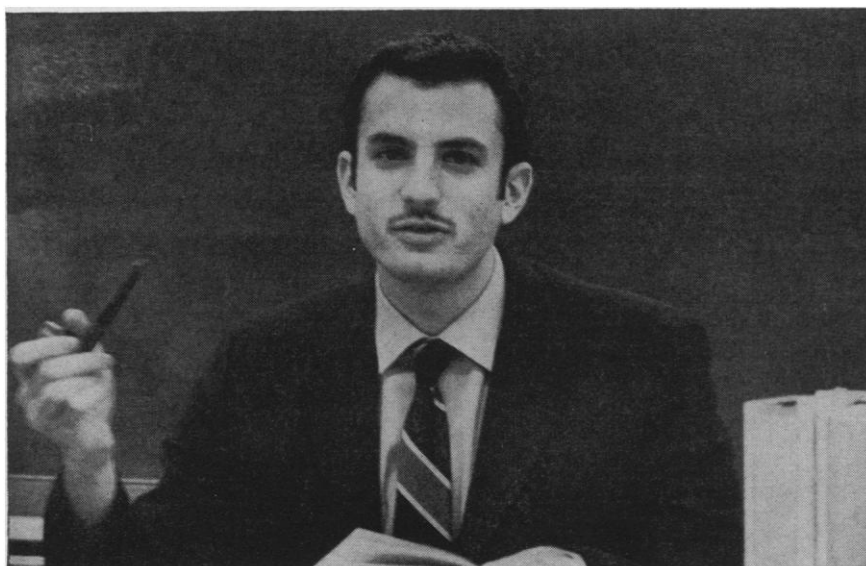
Charles River
BREEDING LABORATORIES, INC.
WILMINGTON, MASSACHUSETTS 01887

FROM THE
HAND OF THE
VETERINARIAN
TO RESEARCH



Circle No. 26 on Readers' Service Card

407



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.

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



hi

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Name _____ Your Date of Birth _____

Address _____ Street _____

City _____ State _____ ZIP _____

Dependents' Ages _____

Nonprofit Employer _____ college, university, or other educational or scientific institution

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 \$100 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

Austrian Engineer, 9 years of English-language industrial experience, available for technical, scientific, and commercial translations from/into German. Professional, prompt. Rudi Payer, Williamstown, Ontario, Canada.

4/24; 5/1, 8, 15, 22

Biochemist, Ph.D. (1967). Nucleic acids—5S RNA, ribosome structure and function, protein synthesis, enzymatic methylation of transfer RNA. Experience with mammalian (reticulocyte) and bacterial systems. Publications. Desires research position in New York/New Jersey area. CDR Box 97, Wyckoff, N.J. 07481. X

Embryologist, Ph.D. Desires teaching/research position. Developmental biology, embryology (vertebrate, invertebrate, experimental), endocrinology, reproductive physiology. Available September 1970. Box 146, SCIENCE. X

Environmental Conservation. Natural resources policy, law, history. University biological, federal natural resources background. Member Cabinet officer's staff 8 years. Now eligible retirement. Excellent health. Interested university position, conservation organization. Box 147, SCIENCE. X

European Representative-Consultant: Biomedical engineer, Ph.D. Ivy League, extensive business and academic experience; now professor at major western European university; will consider representing respectable institution or company part-time to pay for research expenses. Box 148, SCIENCE. X

Geneticist, Ph.D., 34. Eight years of full-time university teaching. Other areas: cell biology, evolution, general biology. Desires teaching and/or administration in private small college. Box 79, SCIENCE. X

Herbarium Curator (16 years) and/or Biology Instructor (13 years). M.S. and 80 semester hours graduate credit in plant taxonomy. Box 149, SCIENCE. X

Immunologist, Ph.D. June 1970 M.S. Pathology. Background in protein chemistry. Desires academic or industrial research position. Box 150, SCIENCE. X

Microbiologist; 30; Ph.D. 1967. Postdoctoral research and administrative experience. Desires academic/research position. Box 151, SCIENCE. X

SCIENTIFIC RESEARCH GOVERNMENT OF CANADA

A. RESEARCH LEADER (Food Additives and Contaminants)—Salary to \$23,077—Food Division, Food and Drug Directorate, Department of National Health and Welfare

An experienced scientist of proven ability and leadership is required to direct and supervise a research program concerned with analysis and biochemical properties of food additives and trace contaminants potentially hazardous to man. Present studies include analytical schemes for emulsifiers and flavouring agents, interaction of processing aids with foods, characterization and analysis of fungal toxins, insect metabolites, naturally occurring carcinogens and trace metals.

B. RESEARCH SCIENTIST (Poultry Genetics)—Salary to \$19,866—Animal Research Institute, Canada Department of Agriculture, Ottawa, Ontario

The preferred candidate will have complete post-graduate training to the Doctorate level in Genetics with particular emphasis on quantitative genetics. Duties will involve collaboration with other scientists on research in poultry egg production, genetics and breeding and on the genetics aspects of a cooperative program on breeding for resistance to poultry leucosis disease complex.

Applications, résumés or related correspondence quoting reference 70-100-01 and the position of interest, should be directed immediately to the:



**Public
Service
of
Canada**

**BIO-PHYSICAL SCIENCES PROGRAM,
PUBLIC SERVICE COMMISSION
OF CANADA,
OTTAWA 4, ONTARIO.**

WILDLIFE BIOLOGIST

To teach two undergraduate courses of 13 weeks each in (1) Introductory Biology or Zoology; (2) Wildlife Management; and one graduate course in Wildlife Ecology. The candidate should be a capable teacher, an established research worker and have the ability to direct graduate students.

Salary will be commensurate with ability and experience. Applications will be considered until June 15th, 1970, the date of appointment can be adjusted for highly qualified candidates.

PROFESSOR KEITH RONALD,
Chairman.
Department of Zoology,
University of Guelph,
Guelph, Ontario, Canada.

POSITIONS WANTED

Cell Physiologist, Ph.D. Experience in protein chemistry, chromosome structure and breakage. Desires research or administration, academic or industrial. Box 152, SCIENCE. X

Microbial Geneticist, Ph.D., 6 years of postdoctoral experience. Publications in fungal gene structure and regulation and plant cytogenetics. Seeks research and/or teaching position. Applied bacterial, fungal, or plant research welcome. Box 153, SCIENCE. X

Microbiologist, 12 years of industrial research experience and QC plus 3 years of college teaching. Seeks position with chemical, food company, testing laboratory, or academic position. Box 154, SCIENCE. X

Microbiologist, Ph.D. (1968) in immunology. Publications, 2 years of teaching (microbiology), 1 year postdoctoral cancer research experience. Desires teaching/research position. Box 155, SCIENCE. X

Parasitologist/Immunologist, Ph.D. 1964. Publications, research experience in parasitology, immunology, pathology. Desires teaching/research position. Box 156, SCIENCE. X

Plant/Crop Physiologist, Ph.D. 1963. Holding immigrant visa, draft exempt. More than 10 years of research experience and some teaching. Seeks position with faculty or industry. Available immediately. Box 157, SCIENCE. X

Russian-English Translator/Abstractor. All subjects rendered into technically accurate, idiomatic English. Rates on request. Charles Parsons, 5914 Pulaski Avenue, Philadelphia, Pa. 19144. X

Science PR, Science Writer. Seeks part-time or fee-for-service with small laboratory. Experience: marine biology, agriculture and engineering. Box 158, SCIENCE. X

Scientist, Ph.D. Interdisciplinary: natural, social, and behavioral. Numerous publications. Consultant to government, business, industry. Expanding contacts. Available to represent your organization in western Canada. Box 159, SCIENCE. X

POSITIONS WANTED

Veterinarian, Ph.D. Publications, 2 years of industrial experience. Seeks research institute/industrial position in parasitology, microbiology. Box 160, SCIENCE. X

POSITIONS OPEN

ASSISTANT DIRECTOR OF RESEARCH

In the Sub Department of Animal Behaviour, Department of Zoology, Cambridge, England. Enquiries are welcomed for this post from Behaviourists of postdoctoral standard. Fuller details available from **R. E. Wyatt**, Department of Zoology, Downing Street, Cambridge, England.

DEAN OF ENGINEERING

San Jose State College, sharing the resources of the professionally and culturally rich San Francisco Bay area and offering many unique opportunities, is seeking an individual with teaching, administrative, industrial, and/or research background to head our Engineering Program. Requires the ability to coordinate a continuing development of comprehensive multi-disciplinary programs in Engineering and Technology at the graduate and undergraduate levels. Send résumé to: **Dr. H. Robert Patterson**, Chairman of Search Committee, San Jose State College, San Jose, California 95114. Position opens 1 September 1970.

ENVIRONMENT CONSULTING

New company being established. Wide spectrum of scientific, engineering, and social expertise to be assembled. Participants may invest. Experience helpful but not essential. Ph.D.'s or professional experience in ecology, physical, biological and environmental sciences, public health, law, engineering, economics, urban planning, management, public relations. Send personal data in confidence to **ECOLUX**, 96 Ardmore Road, Kensington, Calif. 94707.

POSITIONS OPEN

QUANTITATIVE ECOLOGIST

Academic position for a quantitative ecologist with training in plankton open autumn 1970. Salary beginning at \$10,000. Postdoctoral experience desirable. Send vitae and names of three referees to **James W. Neel**, Chairman, Department of Biology, College of Sciences, San Diego State College, San Diego, California 92115.

PHARMACY Ph.D. PHARMACOLOGY Ph.D.

Teaching appointments.
Apply to:

Dean Byron A. Barnes
St. Louis College of Pharmacy
4588 Parkview Place
St. Louis, Missouri 63110

HUMAN BLOOD FRACTIONATOR

Applications are now being invited for an individual competent in the isolation of human blood derivatives. Education and/or experience are mandatory. Send a complete résumé to

BOX 161, SCIENCE

INSECT PHYSIOLOGIST University of California, Berkeley

Applications are invited from qualified persons for a staff position of Insect Physiologist. The position will involve teaching as well as research. Rank and salary will be commensurate with qualification. To submit applications or for further information write: **Division of Entomology**, University of California, Berkeley, California 94720.

POSITIONS OPEN

CLINICAL BACTERIOLOGY

Vacancy exists for Assistant Bacteriologist of Ph.D. status for 800-bed, university-affiliated general teaching hospital.

Excellent spectrum of clinical materials and facilities available. Salary commensurate with training and experience, in the vicinity of \$10,000. Apply to: G. K. Richards, M.A., M.B., B.Ch., M.C.Path., C.R.C.P. (C)

The Buffalo General Hospital

100 High Street
Buffalo, New York 14203

DIRECTOR OF COMPUTER SERVICES

To manage daily operations of the Computer Center and be responsible for operation of all computer and data processing equipment attached to the Center. Candidates should have experience in total systems approach to the utilization of computers, preferably in both administrative and technological capacities. Inquiries should be sent to: Wayne J. McIlrath, Dean of the Graduate School, or F. R. Geigle, Executive Vice President, Northern Illinois University, DeKalb, Illinois 60115.

PEPTIDE SEQUENCING MARKETING/APPLICATIONS

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PHARMACOLOGIST —Ph.D.—

Seeking a Ph.D. with strong background in Pharmacology with interests and training in the gastrointestinal system. Person will participate in planning and pursuing studies in a fundamental research program. This program is designed to develop new chemotherapeutic agents for use in gastrointestinal disorders. Will supervise a group of three junior scientists.

Position offers an opportunity to work closely with scientists trained in a variety of disciplines.

Excellent salary and benefits. Reply in confidence to Francis J. Beston, Director of Scientific Employment

**SK
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LABORATORIES**

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Philadelphia, Pa. 19101

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POSITIONS OPEN

PHARMACOLOGIST (M.D. or M.D., Ph.D.)

A physician with advanced training in pharmacology or endocrinology is needed to participate in interdisciplinary team efforts investigating potential pharmacological agents in diseases of bone and skin. His primary responsibility would be in studying the effects of these compounds in man, but he is also expected to participate in the planning and interpretation of animal and *in vitro* studies.

This career position offers opportunity for both professional and intra-company growth, and the salary is open. No prior industrial experience is required.

Cincinnati is an urban area offering excellent cultural activities, restaurants and shopping. The laboratories are in a picturesque rural setting about 20 miles northwest of downtown Cincinnati.

For further information, contact W. Blair Geho, M.D., Ph.D., The Procter & Gamble Company, Miami Valley Laboratories, P.O. Box 39175, Cincinnati, Ohio 45239.

An Equal Opportunity Employer

UNIVERSITY OF ALBERTA DEPARTMENT OF BOTANY

Applications are invited for the following:

PHYCOLOGIST with interests in ecology of fresh-water algae.

BRYOLOGIST-LICHENOLOGIST with interests in taxonomy, ecology and phytogeography of northern taxa.

Both positions require a Ph.D. and carry the rank of Assistant Professor with a minimum salary of \$10,500. Résumé and three letters of reference to Dr. Wilson N. Stewart, Chairman, Department of Botany, University of Alberta, Edmonton 7, Alberta, Canada. Deadline 15 May 1970.

RESEARCH VIROLOGIST

MERCK SHARP & DOHME is currently seeking an individual with a Ph.D. in virology and at least 5 years' experience in medical virology—immunology, to conduct basic research on human viral disease. Applicant should have a good general knowledge of viral genes causing disease in man and animals and methods for their isolation and identification.

You can expect a salary commensurate with experience, a complete benefit program and an uncommon opportunity in a stimulating, professional atmosphere. Please send summary of training and experience, date available and minimum salary expected to:

Mr. Henry J. Hurst

Merck Sharp & Dohme

Research Laboratories

Division of MERCK & CO, Inc.

West Point, Pa. 19486

An Equal Opportunity Employer

GRADUATE STUDY

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS

A number of fellowships are available for 1 July 1970, in the fields of membrane structure and function, somatic cell genetics, and oncology. Predoctoral fellows would be enrolled in programs leading to M.Sc. or Ph.D. For further information and application forms, write to Dr. N. Kalant, Lady Davis Institute of the Jewish General Hospital, 3755 Cote St. Catherine Road, Montreal, Canada.

GRADUATE STUDY

NEW ZEALAND SENIOR AND POSTDOCTORAL RESEARCH FELLOWSHIPS

The New Zealand National Research Advisory Council invites applications for 8 Senior and Postdoctoral Fellowships to be taken up in New Zealand in 1971. The awards will be for scientific research in Government Departments. A good working knowledge of English is required. There is no restriction regarding nationality of applicants, but successful candidates must meet the requirements of the New Zealand immigration authorities.

A grant equivalent to return economy class air fares from the Fellow's home to the New Zealand institution will be made. While in New Zealand reasonable traveling expenses incurred in connection with the research work will be paid.

If reciprocal social security between the Fellow's country and New Zealand does not apply, a medical insurance premium will be paid.

All emoluments are taxable. NZ\$1 is approximately 9s.4d. sterling or US\$1.12.

Senior Research Fellowships—Applicants should possess a Ph.D. degree or higher qualification or have a distinguished record of scientific research. The fellowships are intended for research workers who have had several years professional experience and have published original material. Fellowships are normally for a period of from nine months to a year. If a fellow's wife accompanies him a grant equivalent to her return fare will be paid provided the fellowship is for a term of at least nine months. If applicable, the employer's contribution to a superannuation scheme will be paid. The emoluments will range from NZ\$6495 to NZ\$8920 a year.

Postdoctoral Research Fellowships—Applicants should possess a Ph.D. or equivalent degree. The fellowships are intended for research workers who are recent graduates and may have had some research experience since graduation. Fellowships are normally for a period of from two to three years. If a fellow's wife and family accompany him a grant equivalent to their return fares will be paid. A grant will also be made towards the cost of transport of personal effects. The emolument will be NZ\$5090 a year.

Application forms and further particulars may be obtained from: The Secretary, National Research Advisory Council, P.O. Box 8004, Wellington, NEW ZEALAND; The N.Z. Scientific Liaison Office, C.S.C., Africa House, Kingsway, London W.C.2, ENGLAND; The N.Z. Embassy, 19 Observatory Circle, N.W., Washington, D.C. 20008, U.S.A.; The N.Z. High Commission, Suite 804, Commonwealth Buildings, 77 Metcalfe Street, Ottawa, Ontario, CANADA; The N.Z. High Commission, P.O. Box 820, Canberra 2601, A.C.T., AUSTRALIA; or the N.Z. Embassy, 26 Sanbancho Chiyoda-ku, Tokyo 102, JAPAN.

Applications must reach the Council Secretary by 30 September 1970

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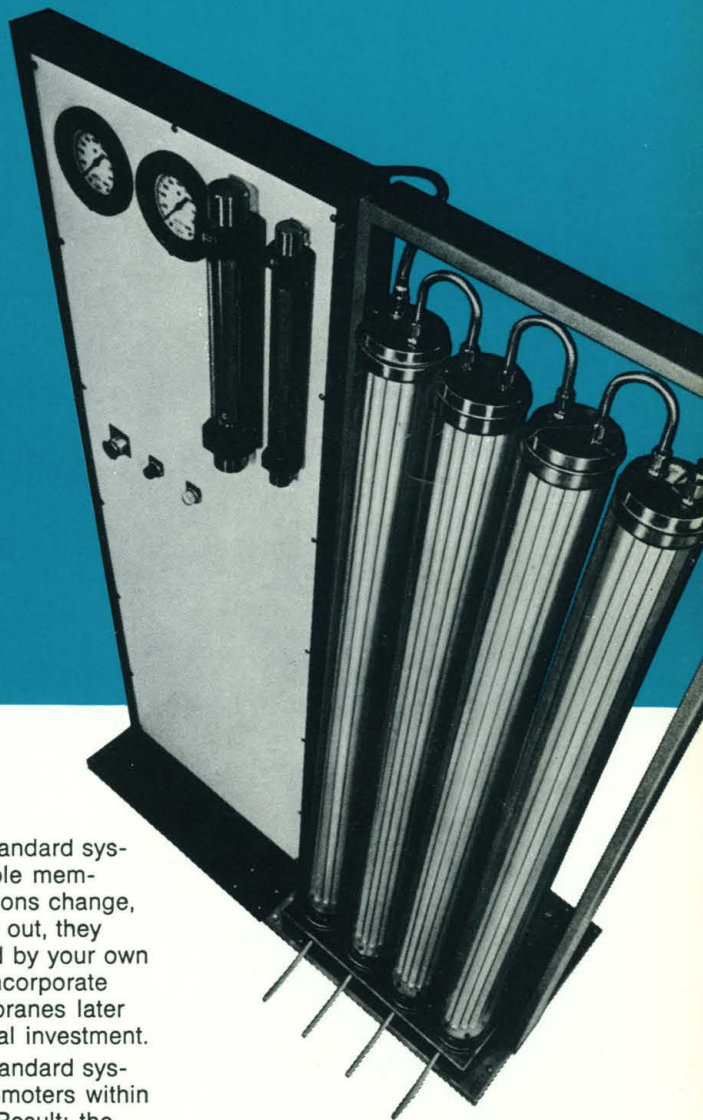
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- Only the American-Standard system has a pressure capability of up to 2,000 psi, permitting separation of difficult solutions inseparable in other systems.

- Only the American-Standard system has field-replaceable membranes. As the applications change, or the membranes wear out, they can be quickly changed by your own people. You can also incorporate newly developed membranes later without additional capital investment.

- Only the American-Standard system has turbulence promoters within large diameter tubing. Result: the system can handle fluid flow at low rates while maintaining high flux and rejections . . . and process fluids with a high percentage of solids.

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To conduct your own evaluations, American-Standard offers a Basic Engineering Unit for *your* lab with capacities of 50 to 2500 gpd de-

signed to obtain precise engineering data for accurate evaluation of your product. American-Standard Customer Applications Laboratory project engineers will consult with you and confirm your studies. For literature and/or technical consultation, in strict confidence, write or call today.



**AMERICAN
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CONSEPS DEPARTMENT

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(609) 488-9500

Circle No. 24 on Readers' Service Card

The only option
you can't put on the
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is quality.
It's already there.

You'll find it in the pacesetting, infinity-corrected optics of the AO Microstar[®] Microscope. You'll find it in the Auto-focus stop that makes perfect focus a matter of touching the fine adjustment. And in the objective nosepiece that floats. So if accidental contact is made with the slide during focusing, you can't damage either the slide or the objective lens. Now, add one or all the options available and the AO Microstar Microscope will take on new and different roles. Add your choice of mechanical stages, so you can face either the front or back of the Microstar Microscope, and use either your right or left hand. Add the Dual Viewing Attachment. It allows two people to view the same specimen at the same time. Add the AO Viewing Screen. It displays the specimen on a 6" screen. The AO Microstar Microscope offers a wide variety of photographic attachments for color or black and white, 35mm or Polaroid* photomicrographs. Ask your AO Sales Representative for a demonstration of the AO Microstar Microscope, or write for more details.

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 **AMERICAN OPTICAL
CORPORATION**
SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N.Y. 14215

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