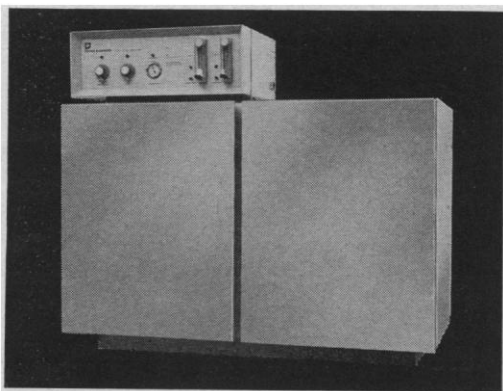


New Total Concept WATER-JACKETED INCUBATORS

Forma's new condominium style double door model includes separate CO₂ tension control systems. And cost savings up to 20%. Write for bulletin WJ-1070. Forma Scientific, Inc. Box 649, Marietta, Ohio 45750.



Forma Scientific

Circle No. 104 on Readers' Service Card

University of Amsterdam

chair

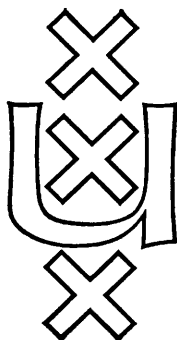
in crystallography

Applications are invited for the post of full Professor in crystallography in the chemical Subfaculty.

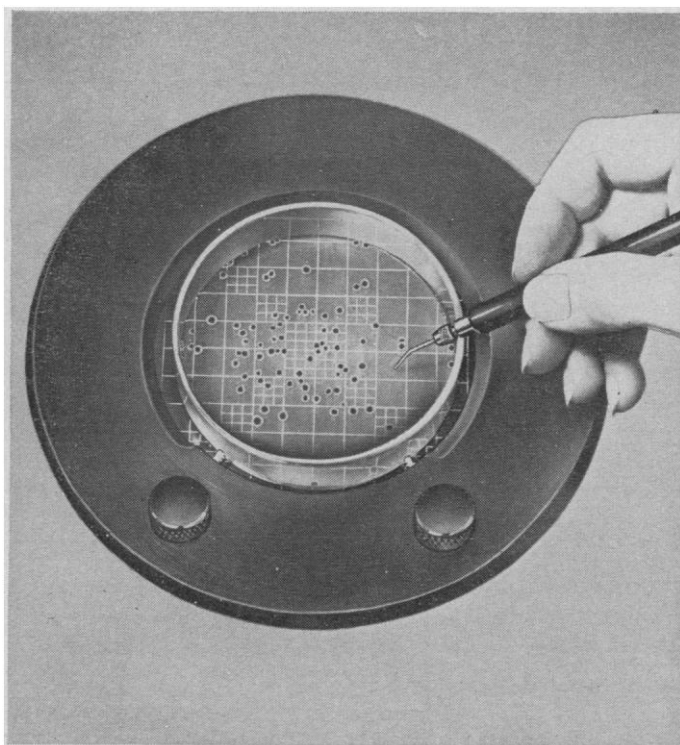
Preference will be given to a crystallographer with a general interest in the structure and properties of solid matter.

The cooperation by the crystallographic institute in investigations in other fields is highly appreciated; a continuation of this tradition will be welcomed.

Further particulars may be obtained from Prof. Dr. W. van Tongeren, Nieuwe Achtergracht 125, Amsterdam-1004, the Netherlands, to whom applications should be sent within a month after the date of publication and who will also receive the names of suitable candidates for this post.



Count Colonies Automatically!



Bacterial colonies can be recorded quickly and accurately in a *single* probing action with the Bactronic Colony Counter, which marks as it counts automatically in open and closed petri dishes. An electronic probe picks up radio impulses on contact with *any* agar medium, actuates the counting mechanism, and leaves an identifying puncture in the agar. If puncturing is undesirable, a plug-in marking pen or grease pencil can be used to mark the back of the plate as it counts. A special system of illumination floods the plate with uniform, glare-free light that accentuates colonies in bold relief. Even pin-point colonies are clearly discerned. This transistorized instrument is equipped with a Sterilizing Probe Well, automatic numerical reset to zero and magnifying lens. Ask for catalog C-110S/471.



NEW BRUNSWICK SCIENTIFIC CO., INC.
1130 SOMERSET ST. • P.O. BOX 606, NEW BRUNSWICK, NEW JERSEY 08903

Personnel Placement

POSITION 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: \$110 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

Biochemist, Ph.D. (1967); age 31; 3½ years postdoctoral research. Extensive experience in biosynthesis and structural analysis of glycoproteins and neopolysaccharides. Strong background in radioisotope techniques (including preparation of labeled substrates), enzyme purification, subcellular fractionation, chromatography, electrophoresis and so forth. Desires academic/research position at university/research institute. Box 171, **SCIENCE**. X

Biologist, Ph.D., 1969. Postdoctoral training in electro- and neurosensory physiology. Three years of previous experience in pharmaceutical research. Desires research position preferably in neurophysiology and/or neuropharmacology. Publications. Box 172, **SCIENCE**. X

Clinical Chemist Team desires progressive position where training and ideas can be utilized. Husband and wife experienced in use of automated systems, quality control, personnel supervision, hormone assays, immunohematology, and hematology. Publications and grants. Husband—NRCC. Five years director of clinical chemistry lab; routine and special chemistry, lab design, and budget management. Wife—chief research chemist for Ob-Gyn department. Research development and clinical evaluation emphasizing high-risk pregnancies and follow-up on the children. Box 173, **SCIENCE**. X

Five vigorous Ph.D.'s all with teaching and research experience planning to leave a crumbling science division. Two zoologists, two mathematicians, and one chemist eager to form the nucleus of a modern forward-looking science faculty. Resumes and references available. Box 174, **SCIENCE**. X

Geneticist, Ph.D., 25, 9 years of university experience, desires position in undergraduate oriented institution. Any location. Box 175, **SCIENCE**. 4/30

POSITIONS OPEN

MARINE GEOLOGIST to conduct research on effects of pollution on marine environment. Particular emphasis will be given to determine manner and degree by which marine geological parameters regulate passage of noxious material through the water column and its ultimate effect on mankind. This will include explaining how various types of pollutants react with inorganic suspended material and bottom sediments in typical marine environments to create sinks for injected pollutants. (GS-13) \$17,761 to \$23,089 per annum depending on experience. Send completed SF-171 to **Headquarters Civilian Personnel Branch (CAS-5), U.S. Coast Guard, 400 Seventh Street, SW, Washington, D.C. 20591**.

POSITIONS OPEN

Manitoba Museum of Man and Nature
invites applications for senior staff position
CHIEF OF NATURAL HISTORY DIVISION

Duties:

1. To act as one of a five-man administrative team within this still developing museum.
2. To assume prime responsibility for the administration of the Natural History Division, currently consisting of four curators and supporting staff, and
3. To pursue research, field work and other activities in his area of interest.

Qualifications:

The applicant should possess at least a Master's degree in one of the natural sciences. Museum and/or administrative experience would be an asset.

Employment conditions:

Appointment as soon as available, salary and other conditions negotiable.

Apply by 30 April to

**Dr. H. D. Hemphill,
Managing Director,
Manitoba Museum of Man and Nature,
190 Rupert Ave.,
Winnipeg 2, Manitoba, Canada**

DIRECTOR OF AN INSTITUTE OF ENVIRONMENTAL SCIENCE

Applications are invited for the position of Director of an interdisciplinary Institute of Environmental Science which is involved in both teaching and research activities. A Master's Degree in Environmental Science is to be implemented this fall (1971). Two large field stations are presently under development. The Institute includes faculty from some 25 academic departments on campus.

Candidates will be considered from a variety of fields; research and administrative experience are desirable; position open as to age, rank, and salary. Applications, including curriculum vitae and three letters of reference, should be sent to **Dr. Gary W. Barrett, Acting Director, IES, 109 McGuffey, Miami University, Oxford, Ohio 45056**.

COURSES

ACS SHORT COURSES

In May and June the American Chemical Society will offer five ACS Short Courses of interest to biochemists, clinical chemists, and others working in biomedical areas:

7-8 May. Liquid Scintillation Counting; Dr. Donald L. Horrocks. New York City area.

14-15 May. Gas Chromatography; Dr. Roy A. Keller and Dr. Michael F. Burke. Boston, Mass.

21-22 May. Intermediate Gas Chromatography; Dr. Harold M. McNair, Dr. Richard S. Juvet, and Dr. Stuart P. Cram. Philadelphia, Pa.

4-5 June. Modern Liquid Chromatography; Dr. Lloyd R. Snyder and Dr. J. J. Kirkland. Chicago, Ill.

7 June. Column Selection in Gas Chromatography; Dr. Harold M. McNair and Dr. Walter R. Supina. Houston, Tex.

For complete information write or call **R. G. White, American Chemical Society, 1155-16th Street, NW, Washington, D.C.; (202) 737-3337, ext. 494**.

GRADUATE STUDY

PREDOCTORAL TRAINING IN PHYSIOLOGY

Excellent opportunities for graduate students leading to the Ph.D. degree. Stipends and tuition remission. Research training in neurophysiology, cardiovascular and renal physiology, and neuroendocrinology. Write for details to:

**Chairman
Department of Physiology
New York Medical College
1 East 106th Street
New York, New York 10029**

GRADUATE STUDY

NEW ZEALAND SENIOR AND POSTDOCTORAL RESEARCH FELLOWSHIPS

The New Zealand National Research Advisory Council invites applications for ten Senior and Postdoctoral Fellowships to be taken up in New Zealand in 1972. 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 travelling 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 9 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 9 months. If applicable, the employer's contribution to a superannuation scheme will be paid. The emoluments will range from NZ\$7414 to NZ\$10300 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 2 to 3 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\$6231 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 1971.

PROFESSIONAL SERVICES

ECONOMIDES & GOLDBERG

Consulting Engineers

Design Investigations Reports
Drawings & Specifications
Mechanical and Electrical Systems & Services
for Laboratories, Test, Research & Process
Facilities
Air Conditioning, Refrigeration, Laboratory
Exhaust, Laboratory Services, Lighting, Power
Distribution, Power Generation, Incineration
& Environmental Control
110 East 30th Street New York 10016
212-683-6889

The Market Place

Do You Need.....

NMR SOLVENTS?

For lowest prices, call (415) 234-4130 or write for our newest isotope catalog.

BIO-RAD Laboratories

32nd & Griffin, Richmond, Calif.

Choose Philips X-Ray
Spectrometers for

economy sensitivity speed versatility

**190 100 10 Vacuum
X-Ray Spectrometer.**

Optimum vacuum in less than one minute. 4 samples standard; 8 samples automatic, optional. Determinations from flourine. Operates in vacuum, helium or air.

**PW 1410 Universal
X-Ray Spectrometer.**

Highest intensity x-ray source and optics available reduce measuring time, lower detection limits. Airlock for quick sample change. Determinations from flourine. Operation to 100kv. Over 30 field installed accessories to provide widest versatility.

**PW 1270 Automatic
Simultaneous X-Ray
Spectrometer.**

Simultaneous analysis of 14 elements from flourine. 3 analytical programs. Choice of 4 measuring methods: absolute, ratio, monitor, or background ratio in any combination. Direct concentration readout. Computer coupling optional.

**PW 1220C Computer
Controlled X-Ray
Sequential
Spectrometer.**

Instrumental parameter control and data processing of elements from flourine in any sequence or combination. Software for specific application is provided. Operation to 100kv.

Choose any Philips X-Ray Spectrometer . . . in any instrument you select you'll get economy, sensitivity, speed and versatility. Write today.

**PHILIPS
ELECTRONIC
INSTRUMENTS**

750 S. Fulton Ave.
Mt. Vernon, N.Y. 10550
A Division of PEPI, Inc.

Circle No. 12 on Readers' Service Card

The AO Cryo-Cut stays frost-free.

The AO® Cryo-Cut includes all the conveniences you have wanted in a cryostat microtome. Precision sectioning with no ice, no condensate, no dripping. It's frost-free.

Desired temperature operating range between $+10^{\circ}$ to -30° is readily maintained with the door open.

You will appreciate the additional elbowroom offered by the 18-in. width of the microtome well; the sliding glass door with built-in heater to eliminate condensation; the conveniently located fast-feed control; new easy-to-clean procedure without time-consuming, messy defrosting; clear-view control panel and many other features that help make the AO Cryo-Cut the most convenient precision frozen sectioning instrument of our time. Now available with optional motor drive.

Write for all the facts, or better still, see a demonstration. Ask your AO representative.

®TM Reg., American Optical Corp.



**AMERICAN OPTICAL
CORPORATION**

SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N.Y. 14215

Circle No. 3 on Readers' Service Card