

care administrators and industrial engineers, systems analysts, operations researchers, and health care researchers who are interested in the potential contribution to ambulatory care of quantitative decision-making techniques.

"Engineering in Medicine—Automatic Cytology"; 26–30 July, New England College; Kendall Preston, Jr., Perkin-Elmer Corp., chairman. Research workers from the United States, the United Kingdom, and Europe will gather to exchange and discuss recent results of their efforts in the automation of cytological determinations. Included will be discussions of high-speed electrooptical imaging and image processing systems, as well as allied work in fluid dynamics, cytochemistry, and computer science.

"Engineering in Medicine—Biotelemetry"; 2–6 August, New England College; Charles W. Garrett, Committee on Interplay of Engineering with Medicine and Biology, National Academy of Engineering, chairman. Recent developments in electronic devices and their application to the medical practices will be explored. Case histories of various systems, embracing successes, problems, and causes of failure, will be presented.

"Enzyme Engineering"; 9–13 August, New England College; Lemuel B. Wingard, Jr., State University of New York at Buffalo and University of Pittsburgh, chairman. This conference will examine the engineering knowledge needed for the successful, practical, and economic realization of new possibilities for conducting highly selective, enzyme-catalyzed reactions during industrial processing, laboratory analyses, and medical therapy. An assessment of the progress to date, an exchange of ideas on the scope and possible routes for solution of the major problems, and the exploration of specific areas of application are major goals of the conference.

"Engineering Utility Tunnels in Urban Areas"; 16–20 August, New England College; Lloyd A. Dove, Institute for Municipal Engineering, American Public Works Association, chairman. Three utility tunnel applications will be considered: (i) a new town, (ii) an urban renewal project in a central business district, and (iii) a major street reconstruction in conjunction with the installation of a new rapid transit subway.

"Research to Reduce Cost of High-Voltage Underground Transmission"; 23–27 August, New England College; Lester H. Fink, Philadelphia Electric

Company, and T. W. Mermel, Bureau of Reclamation, cochairmen. The state of the art and the requirements for underground transmission systems will be discussed in light of environmental constraints on overhead transmission systems of the future.

"Mixing Operations"; 9–13 August, Proctor Academy, Andover, New Hampshire; James Y. Oldshue, Mixing Equipment Co., Inc., chairman. The conference will focus on liquid-liquid mixing, liquid-solid mixing, turbulence in mixing vessels, atmospheric and ocean mixing, static mixers, pipeline and jet reactors, waste aerators and fermentation, and descriptions of mixing in industrial projects.

"Future Power Systems—Research, Reliability and Regulation"; 16–20 August, Proctor Academy; Elias Schutzman, Division of Engineering, National Science Foundation, chairman. This conference will examine in depth the resources of the university, industry, government, and the utilities and the way they may be best organized to meet the demands of future power systems.

"Corrosion Engineering"; 23–27 August, Proctor Academy; Walter K. Boyd, Columbus Laboratories, Battelle Memorial Institute, chairman. Several facets of corrosion will be discussed: (i) the application of metals and alloys to provide a practical solution to plant corrosion problems; (ii) such preventative techniques as inhibition and cathodic and anodic protection; and (iii) the practical use of accelerated laboratory tests and other laboratory techniques for assessing corrosion behavior of materials and factors responsible for corrosion in a given system.

"Technology Assessment: Management, Manpower, and Methodologies"; 30 August–3 September, Proctor Academy; Bodo Bartocha, National Science Foundation, and Joel Goldhar, Rensselaer Polytechnic Institute of Connecticut, cochairmen. A follow-up of an Engineering Foundation Conference on technology assessment held 2 years ago, this meeting will focus on the operational problems of performing assessments and preparing individuals for the expected demand for trained assessors.

Additional information and application forms are available from the author.

SANDFORD S. COLE
Director, Engineering Foundation
Conferences, Room 308,
345 East 47 Street, New York 10017

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Biologist, Ph.D. 1960. Teaching experience: cellular, comparative, general physiology; anatomy-physiology; histology; cellular-molecular biology; biochemistry. Undergraduate teaching preferred. Box 149, **SCIENCE**. 5/7, 28

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Physical Bio-Organic Chemist, Ph.D., desires research associate position in magnetic resonance laboratory in research institute, medical school or industry. Publications, experience, and interests applications of nuclear magnetic resonance to biochemical, biological problems. Box 185, **SCIENCE**. X

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Applications are invited from geologists and other scientists with qualifications in one of the areas of hard-rock geology to fill the first chair in a newly established department of Earth Sciences in the Faculty of Science. As first chairman of the department the initial responsibilities of the professor appointed will include planning accommodation in a new building and the content of the subjects to be offered, ordering equipment for teaching and research, and appointing the first members of staff. It is expected that undergraduate teaching will begin in the 1973-75 triennium.

It is envisaged that this will become a multi-professorial department, having a number of special interests ranging from the deep interior of the earth to the fluid envelope. The chairmanship will be determined by arrangement between the professors. It is planned that a second professor, having qualifications in a complementary field, will be appointed within a further two years. Close links will be maintained with other departments having interests in the general domain of the earth sciences.

Salary: At present \$A14,000 per annum. (It is expected to become \$A15,264 per annum). Superannuation is based on an endowment assurance scheme, the employee and employer contributing 5% and 10% respectively.

Information on application procedure and a statement concerning the proposed department of Earth Sciences, together with a copy of the regulations for the degree of Bachelor of Science, may be obtained from the **Academic Registrar, Monash University, Clayton, Victoria, 3168.** Further enquiries of a technical nature should be directed to Professor K. C. Westfold, Dean of the Faculty of Science, Monash University.

Closing date: 18 June 1971.

The University reserves the right to make no appointment or to appoint by invitation at any stage.

J. D. Butchart
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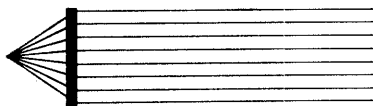
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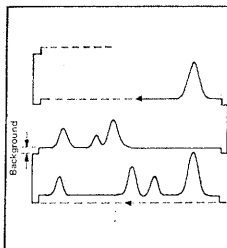
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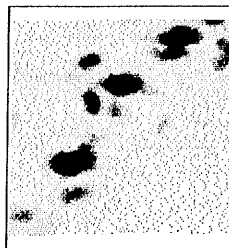
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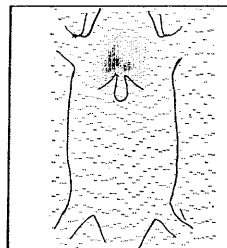
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The Department of Genetics invites applications for the position of Assistant Professor. The appointee will be expected to carry out research and undertake teaching duties at both the undergraduate and graduate levels. Ph.D. applicants should submit vitae and names of three referees to J. Kuspira, Acting Chairman, Department of Genetics, University of Alberta, Edmonton, Canada.

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MICROBIOLOGIST required at the Hotel Dieu Hospital, Kingston, Ontario, with an appropriate joint appointment in the Department of Microbiology, Queen's University. This microbiologist will be responsible for the service requirements at the Hotel Dieu Hospital and will take a full part in the academic programme of the University Department. Further particulars may be obtained from: Dr. F. H. Milazzo, Department of Microbiology and Immunology, Queen's University, Kingston, Ontario, Canada.

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Opportunity for a B.S. or M.S. with experience in analytical microbiology. Responsibilities include isolation, enumeration, and identification of microorganisms as well as the development of analytical procedures for a variety of products. Knowledge of microbiological assay techniques and preservative testing desirable.

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For further details and application forms, write Director, Summer Session, Room E19-356, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

"Le Consortium de la recherche sur l'eau" requires a Director to coordinate the research on water carried at Bishop's, Laval, McGill, Montreal, Sir George Williams and Sherbrooke Universities.

Must have established scientific reputation in biological, physical or socio-economic aspects of water research. Should speak French and English. The position is located in Montreal.

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RESEARCH CONTRACTS

RESEARCH CONTRACTS NATIONAL INSTITUTE OF DENTAL RESEARCH

THE NATIONAL INSTITUTE OF DENTAL RESEARCH, as a part of a comprehensive program directed toward the elimination of caries as a public health problem, is seeking potential contractors who are qualified and interested in performing studies directly related to protecting the teeth, modifying the diet to reduce caries, or combating cariogenic bacteria.

This is not a request for proposals. Respondents should include information on available personnel, facilities, experience, and general areas of research interest. Formal requests for proposals will be sent to those having proven capabilities in these areas. Inquiries should be sent to **Mr. J. M. Brown, 404 Westwood Bldg., National Institute of Dental Research-Carries-National Institutes of Health, Bethesda, Maryland 20014.**

NATIONAL CANCER INSTITUTE CHEMICAL CARCINOGENESIS CONTRACT PROGRAM

The Carcinogenesis Area of the National Cancer Institute is responsible for a coordinated research program on carcinogenesis by chemical and physical factors. Contract support is given to qualified laboratories willing to undertake experimental programs of the following types:

1) **Identification of carcinogenic chemicals.** Environmental chemicals are studied in experimental animals by common routes of human exposure. Initial screening tests by other routes may be done when these appear likely to give preliminary data more economically. Bioassays are presently supported on the following materials: (a) drugs, (b) food additives, (c) household products, (d) industrial wastes, (e) natural products, (f) occupational chemicals, (g) pesticides, and (h) tobacco products.

2) **Development and utilization of biologic models for studies on the induction of human cancer.** Experimental models will be used to detect environmental carcinogens, or to define the processes by which physical and chemical agents cause cancer. Particular interest is in development of experimental models for induction of cancers of the following organs: (a) lung and bronchi, (b) colon and rectum, (c) pancreas, (d) liver, (e) kidney and bladder, (f) targets of sex hormones (mammary gland, ovary, uterus and cervix, prostate, testis), and (g) childhood cancers.

The development of *in vitro* carcinogenesis models is also of great interest.

3) **Identification of processes by which carcinogenic agents act in order to develop preventive measures.** This includes (a) studies on activation and metabolism of carcinogens, (b) interaction of carcinogens with cellular organelles and molecules, (c) the effect of these interactions on cell structure and function, and (d) biologic mechanisms for the recognition and repair of carcinogen-induced abnormalities.

Many of these programs require an interdisciplinary approach. Contracts are awarded only for proposals showing that personnel with the necessary qualifications and experience will spend adequate time on the project. Other factors considered in awarding contracts are the adequacy of facilities and equipment, thoughtfulness of the proposal, and the total cost. Proposals must include specific experimental approaches rather than general directions to be pursued.

Acceptance of a contract implies a willingness to participate in a coordinated national program. This requires close collaboration with other contract organizations and with the staff of the National Cancer Institute. New observations as well as experimental problems must be reported promptly so that this information can be utilized as rapidly as possible.

As the budget for this program permits the initiation of new contracts, requests for proposals on specific topics are advertised in the U.S. Department of Commerce *Business Daily*. However, scientists interested in and qualified for this program are invited to indicate in which specific problems among these above they are interested and to send résumés of training, experience, and facilities showing their qualifications for working on these problems. When requests for proposals are advertised, they will also be sent directly to those qualified scientists indicating an interest and a capability in the program areas involved.

Communications should be addressed to the **Office of the Associate Scientific Director for Carcinogenesis, Building 37, Room 3A21, National Cancer Institute, Bethesda, Maryland 20014.**

Information in the future will be distributed through a pending NIH guide for NIH grants and contracts.

GRADUATE STUDY

Applications for graduate studies leading to a M.S. degree in Biochemistry (Major: Clinical Chemistry) and a M.S. degree in Pathology (Major: Clinical Chemistry) are now being accepted at Mount Sinai Hospital Medical Center, Chicago, Illinois and The Chicago Medical School/University of Health Sciences.

For information write to: **Registrar, The Chicago Medical School, University of Health Sciences, School of Graduate and Post Graduate Studies, 2020 West Ogden Avenue, Chicago, Illinois 60612.**

MEDICAL COLLEGE OF GEORGIA: Graduate Programs in the Life and Medical Sciences, 1971-72 academic year, leading to the Ph.D. (or M.S.) in Biochemistry, Endocrinology, Microbiology, Anatomy, Physiology, and Pharmacology, NSF, NDEA, NIH and institutional fellowships, traineeships and assistantships for qualified students, with dependency and tuition allowance in many cases. For details of the graduate program in each field, application materials, and financial assistance information write to: **Dean F. J. Behal, School of Graduate Studies, Medical College of Georgia, Augusta, Georgia 30902.**

Postdoctoral Fellowships in Immunobiology and Immunochemistry are available to qualified applicants. Research activities include studies of cellular interactions in antibody formation, quantitative evaluation of the immune response at the cellular level, biologic activities of the complement system, mechanisms of immediate hypersensitivity and immunoassay of low molecular weight antigens. Send curriculum vitae with names of two references to **Frank L. Adler, Ph.D., or Abraham G. Osler, Ph.D., The Public Health Research Institute of the City of New York, Inc., 455 First Avenue, New York, N. Y. 10016.**

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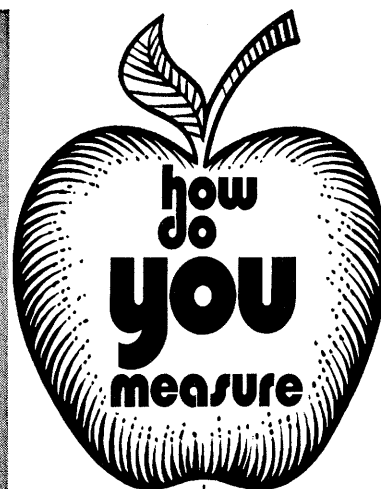
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9. Chemical Reviews, vol. 50, 1952 thru vol. 64, 1964 (only vol. 50 & 51 bound).
10. Clinical Pharmacology, vol. 1, 1960 thru vol. 10, 1969.
11. British Journal of Industrial Medicine, vol. 2, 1945 thru vol. 8, 1951; vol. 20, 1963 thru vol. 22, 1965; and vol. 24, 1967. (The intervening volumes will also be available shortly).
12. British Journal of Pharmacology and Chemotherapy, vol. 1, 1946 thru vol. 31, 1967.
13. Industrial Medicine and Surgery, vol. 15, 1946 thru vol. 37, 1968.
14. Journal of Industrial Hygiene and Toxicology, vol. 1, 1919 thru vol. 18, 1936.
15. Journal of Pharmacology and Experimental Therapeutics, vol. 53, 1935 thru vol. 164, 1968.

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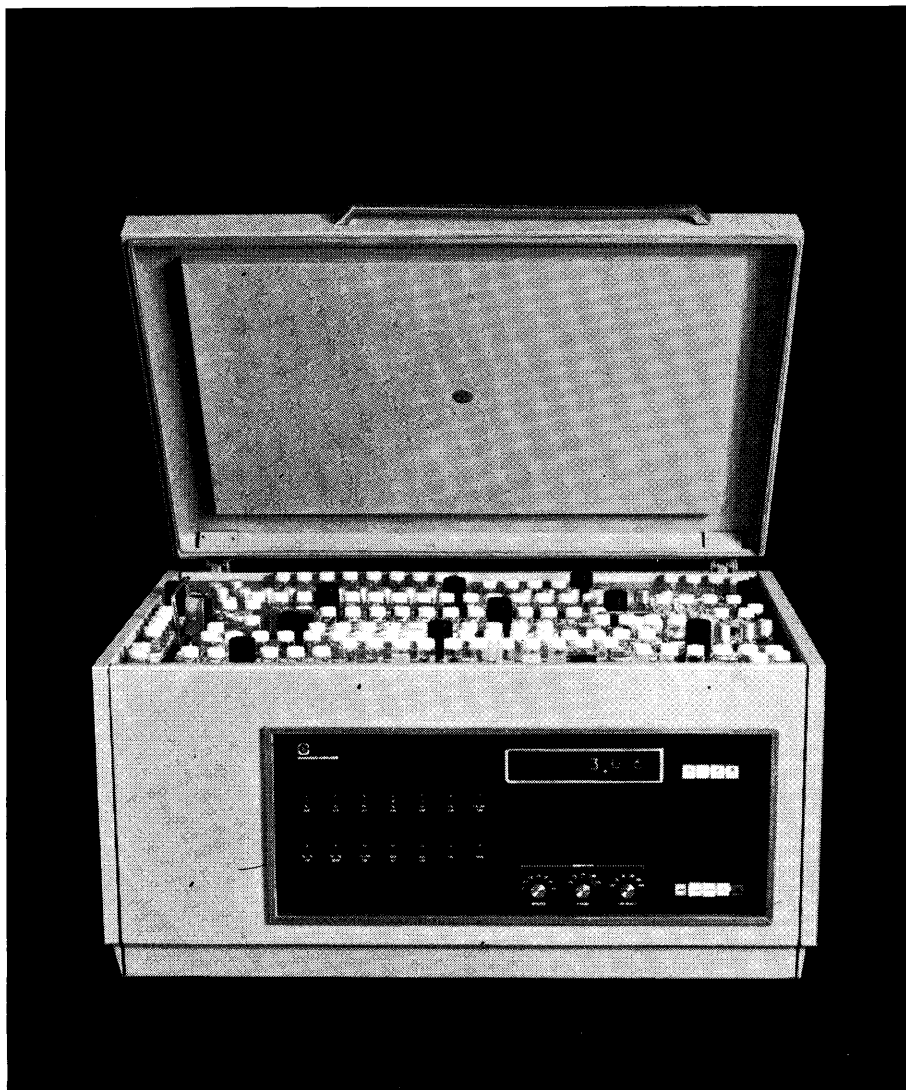
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