

NEWS AND COMMENT

(Continued from page 1158)

Lewis Daniels, 42; professor of pedodontics, University of California; 28 January.

Lewis M. Daniels, 43; associate professor of dentistry, University of Southern California; 23 January.

J. Fenton Daugherty, 75; professor emeritus of physics, University of Delaware; 19 February.

Earl H. Dearborn, 57; former head, pharmacology department, Boston University School of Medicine; 28 February.

Harry G. Detwiler, 58; chairman of education, George Washington University; 17 February.

Harold M. Dorr, 76; former dean of state-wide education, University of Michigan; 31 January.

Nathan B. Eddy, 82; retired chief, analgesics section, chemistry laboratory, National Institute of Arthritis, Metabolism, and Digestive Diseases; 28 March.

Elsa M. Ehrenstein, 71; former professor of pharmacy, Philadelphia College of Pharmacy and Science; 21 February.

Immanuel Estermann, 73; professor emeritus of physics, Israel Institute of Technology and University of Hamburg, Germany; 30 March.

Chester N. Frazier, 81; professor emeritus of dermatology, Harvard University; 14 February.

Ernst Gellhorn, 80; professor emeritus of physiology and neurophysiology, University of Minnesota; 20 April.

Vernon H. Goerke, 68; former visiting professor of acoustics, Washington State University; 27 February.

T. Campbell Goodwin, 71; professor emeritus of pediatrics, Columbia University; 30 May.

Douglas P. Head, 74; former professor of medicine, University of Minnesota; 14 April.

C. Doris Hellman, 62; professor of history of science, Queens College; 28 March.

A. Stanley Holt, 52; research professor of biology, University of Ottawa; 26 December 1972.

Jules D. Holzberg, 57; chairman, psychology department, Wesleyan University; 18 February.

George L. Kalsounis, 46; professor of education, State University of New York College, Buffalo; 30 March.

Louis N. Katz, 75; director emeritus, Cardiovascular Institute, Michael Reese Hospital and Medical Center; 2 April.

Newell C. Kephart, 62; former pro-

fessor of education, Purdue University; 12 April.

Robert N. Kersey, Jr., 52; associate professor of electrical and computer engineering, Clemson University; 3 February.

Herbert J. Kildee, 87; dean emeritus, College of Agriculture, Iowa State University; 10 February.

Edward H. Kraus, 97; former dean, College of Literature, Science and Arts, University of Michigan; 3 February.

Edward T. Ladd, 52; professor of education, Emory University; 24 January.

Charles E. Lawall, 81; former president, West Virginia University; 5 April.

Francis L. Lederer, 74; professor emeritus of otolaryngology, University of Illinois; 3 April.

Frank C. Mathers, 92; professor emeritus of chemistry, Indiana University; 23 March.

Ferdinand Menefee, 87; professor emeritus of engineering mechanics, University of Michigan; 12 February.

David W. Northup, 66; professor emeritus of physiology and biophysics, West Virginia University; 13 March.

Dickinson W. Richards, 77; professor emeritus of medicine, Columbia University; 23 February.

Edwin H. Rohrbeck, 77; professor emeritus of agricultural extension, Pennsylvania State University; 11 February.

Peter A. Tavormina, 55; director of biochemistry, Mead Johnson Research Center; 26 March.

Thurlo Thomas, 64; professor of sociology, Carleton College; 14 April.

Derrick Vail, 74; professor emeritus of ophthalmology, Northwestern University; 19 April.

Joan F. White, 49; assistant professor of zoology, Eastern Illinois University; 26 March.

Erratum: In the caption of the cover photograph for 25 May 1973, the word "below" is misplaced; it should be deleted from the first sentence, and the second sentence should read: "(Below) Same view taken through a cylindrical lens . . ." Two errors occurred in the report by Freeman and Thibos in the same issue, p. 876: in column 2, line 4, "Freeman and co-workers" should be changed to "Freeman *et al.*"; in column 3, line 44, "the visual resolution" should be changed to "visual resolution"—Ed.

Erratum. The major affiliations of the following new members of the National Academy of Sciences (*Science*, 11 May) are: Edward H. Ahrens, Jr., Rockefeller University; Robert W. Fogel, University of Chicago; and Gilbert F. White, University of Rochester.

Erratum: In the illustration accompanying the review of Valentin Boss's *Newton and Russia* (11 May, p. 624), the drawings designated "Left" and "Right" were interchanged. The three drawings that appear at the right represent the "Newtoniano-Gregor-Lomon. tubus" and the one at the left represents the "tubus nyctopticus modo Lomonosov-Newton."

Personnel Placement

It is requested that only those employers who will not discriminate on the basis of race, sex, religion, color, or national origin submit positions open advertising.

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POSITIONS WANTED

Cellular Immunologist, Ph.D. postdoctoral lymphocytes, lymphokines, atopic and humoral hypersensitivities, and immunochemistry; publications. Seeks academic or institutional research and teaching position. Box 318, *SCIENCE*. 6/22

Consultation in Veterinary and Comparative Histopathology. Board-certified veterinary pathologist will examine stained sections of animal tissues for toxicologic, research, or diagnostic studies. Box 287, *SCIENCE*. 6/15

Cross-Discipline Research Engineer. BSME Berkeley, registered professional engineer (Calif. #M13,885) seeks responsible position in design and application of sophisticated, state-of-the-art research tools. Extensive experience in physical, behavioral, medical, and marine sciences at Brain Research Inst., UCLA; Physics, UCLA; Bubble Chamber Group, Lawrence Berkeley Lab. Excellent writing ability and willing to travel. Résumé available. Box 319, *SCIENCE*. X

Ed.D. Teacher/Administrator. Acting Chairman biology department small college, 2 years. Teaching experience science education and undergraduate biology courses/research experience. Minority group member desires teaching or administrative position. Box 320, *SCIENCE*. X

Ph.D. Immunologist-Microbiologist, minor in pathology, graduating in August. Seeks a postdoctorate or teaching-research position. Experience in tumor immunology/cell-mediated immunity, particularly leukemia. Box 321, *SCIENCE*. X

Medical Editor, senior level. Experienced in all aspects of editing, rewriting, printing. Full time or free lance. Box 322, *SCIENCE*. X

Minicomputer Specialist. Real-time data acquisition, signal processing, Fourier methods, instrumentation control. I can make it work. Write D. Hindman, 1307 Falcon, Austin, Texas 78745. 6/15

Paleoecologist, Ph.D., 11 years' university teaching. Teaching/research position. Current research palynology and invertebrate paleontology. Box 323, *SCIENCE*. X

Physiologist-Cell Biologist, Ph.D. 1973; M.D. from Europe, extensive experience in teaching human anatomy, training in electron microscopy. Seeks teaching and/or research position. Angelo Pharmakidis, P&CB Department, University of Kansas, Lawrence, Kansas 66044. X

POSITIONS WANTED

Physiologist, Ph.D. 1965. Experienced teacher in medical and graduate education. Human environmental and stress research. Publications, grants. Desires senior academic teaching-research position. Box 324, SCIENCE. X

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Announces the immediate availability of an important position as part of its expanding research programs in environmental carcinogenesis and toxicology.

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Our Institute is located at the University of Nebraska Medical Center at Omaha and affords not only excellent facilities and support services but an atmosphere that fosters creativity.

Interested applicants should call or write:

Dr. John C. Keller
Associate Director
Eppley Institute for Research in Cancer
University of Nebraska Medical Center
Omaha, Nebraska 68105

Telephone (402) 541-4937

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UNIVERSITY OF CAPE TOWN SENIOR LECTURER OR LECTURER IN ZOOLOGY

Applications are invited for the above-mentioned post tenable from January 1st 1974. The minimum qualification is an M.Sc. in Zoology, and research experience in experimental zoology or ecology is an additional recommendation. The salary scale (at present under review) is R4800 X 300-6900 for a Lecturer and R6300 X 300-8100 for a Senior Lecturer. The initial salary on these scales will depend on qualifications and experience. Applicants should state clearly whether they wish their names to be considered only for the post at the Senior Lecturer level.

Applicants should submit a curriculum vitae together with the names and addresses of at least two referees (preferably persons with knowledge of the applicant's academic qualifications and experience) whom the University may consult.

Appointment will be subject to a satisfactory medical certificate.

Two copies of the application should reach the Secretary-General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF, (from whom memoranda giving the conditions of service, including transport expenses on appointment, and information on the work of the Department may be obtained) not later than 15 July 1973. A third copy of the application with a medical certificate, should be sent direct by airmail to the Registrar, University of Cape Town, Private Bag, Rondebosch, Cape Town, South Africa by the same date.

The University reserves the right to appoint other than one of the applicants, or to make no appointment.

POSITIONS OPEN

PHARMACOLOGIST

The post as head of the pharmacological research department in a leading Danish ethical pharmaceutical company has fallen vacant, and we are now seeking an experienced pharmacologist to fill this vacancy.

The department forms part of our research function, other departments covering chemistry, bacteriology, toxicology, and clinical research.

The department carries out an extensive screening program and is also responsible for more detailed evaluation of potential drugs as well as for metabolic studies.

The candidate appointed is likely to have a Ph.D. degree in pharmacology and some years of postdoctoral experience.

Salary and other benefits will be negotiated but are commensurate with the responsibilities of the post.

The laboratories are situated on the outskirts of Copenhagen.

Applications with curriculum vitae should be sent to

The Director of Research
LEO PHARMACEUTICAL PRODUCTS
DK-2750 Ballerup
Denmark

PROFESSOR OF CHEMISTRY

The University of Nebraska-Lincoln seeks a new faculty member with an outstanding record of research accomplishment. Applicants need not have but should be qualified for the rank of Professor and active in a developing field of contemporary interest. Previous university teaching experience is desirable, but not necessary. Salary, starting date, and initial research support are negotiable and will depend, in part, on the experience and needs of the successful candidate. Send résumé, including grant record, to **Dr. Robert S. Marianelli, Chairman of Search Committee, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska 68508.** An equal opportunity and affirmative action employer.

Ph.D. Clinical Chemist: Large growing private laboratory needs clinical chemist to supervise Department and be responsible for R & D. Knowledge of all phases of clinical laboratory desirable. Several years of experience required. Please send detailed résumé and salary history.

Box 315, SCIENCE

Clinical Pharmacologist. Assistant Professor or Instructor in Department of Medicine, Stanford University School of Medicine, beginning 1 July 1974 or later. Excellent opportunity for M.D. with strong clinical and research training. Responsibilities will include teaching, clinical consultation activity and research. Applicants are requested to submit curriculum vitae by 1 September 1973 to **Head, Division of Clinical Pharmacology, S-169, Stanford University School of Medicine, Stanford, California 94305.** Stanford is an affirmative action employer.

THE UNIVERSITY OF SOUTH FLORIDA is seeking a **Department Chairman** for its growing marine science department which currently consists of nine faculty members. The candidate should have a doctorate in oceanography or a related field and proven research and administrative abilities. Interested candidates should forward a full curriculum vitae, including references, to **Dr. Peter R. Betzer, Head of Search Committee, Department of Marine Science, 830 1st Street South, St. Petersburg, Florida 33701.**

The University of South Florida is an equal opportunity employer.

DIRECTOR OF EXPERIMENTAL SURGERY Cardiovascular Physiologist

Opportunity for experienced investigator to join multidisciplinary group working in assisted circulation. Candidate should have research interest in area related to mechanical circulatory assistance and sufficient accomplishment to share leadership of substantial experimental and clinical research program; may be Ph.D., M.D., or D.V.M. Laboratory located in 650-bed medical school-affiliated hospital in Midwest. Please send curriculum vitae to **Box 316, SCIENCE.**

POSITIONS OPEN

ENDOCRINE DIRECTOR

Ph.D. with experience in radioimmunoassay is sought for the position of Laboratory Director. This challenging position involves the direction of an endocrine reference library, teaching, and research. Reply to: **Endocrine Center, 200 University Circle Research Center, 11001 Cedar Avenue, Cleveland, Ohio 44106.**

Microbiologist-Radiation Biologist. To teach introductory microbiology to freshman nursing majors, and two upperclass courses for Biology majors: Biology of Monera and Fungi, Radiation Biology. Supervise senior research projects. Ph.D. Start fall 1973. Write to **Denton Crocker, Skidmore College, Saratoga Springs, N.Y. 12866.**

Faculty Position: Applicants are invited for the position of Full Professor of Biochemistry in the Department of Chemistry of Temple University. Salary will be commensurate with qualifications. Applicants must be able to conduct a vigorous teaching and research program in the area of Biochemistry. Temple University has an Affirmative Action Program and is committed to the employment of women and members of minority groups. Please send résumés to **Professor R. E. Salomon, Chairman, Department of Chemistry, Temple University, Philadelphia, Pennsylvania 19122.**

THE SCRIPPS INSTITUTION OF OCEANOGRAPHY

has two openings for **marine geophysicists:** (1) in Marine Tectonophysics as assistant professor; qualified candidates should have a Ph.D. and experience in one of the major branches of the field, for example, magnetic anomaly interpretation; and (2) in Marine Gravity as assistant research geophysicist; qualifications include a Ph.D. and experience with field operations and interpretation. Inquiries with curriculum vitae should be sent to: **Dr. J. R. Curry, Chairman, Graduate Department, Scripps Institution of Oceanography, Box 109, La Jolla, California 92037.** The University is an equal opportunity employer with an affirmative action program.

Marine and Aquatic Scientists University of Wisconsin-Madison

The Marine Studies Center of the Institute for Environmental Sciences has new positions for a marine biologist and a physical oceanographer. These teaching-research faculty positions are at the assistant or associate professor level. They are for persons interested in problems of the Great Lakes and able to conduct individual and multidisciplinary research. A familiarity with both field and laboratory approaches is required. The biologist should have a quantitative ecological orientation to studies of invertebrates or fishes or both. The physical oceanographer should be oriented toward coastal and near-shore processes. Send curriculum vitae, list of references, teaching and research interests by 15 July 1973 to:

Robert A. Ragotzke
Director, Marine Studies Center
University of Wisconsin-Madison
1225 West Dayton Street
Madison, Wisconsin 53706

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POSITIONS OPEN

DEPARTMENT OF MEDICAL GENETICS UNIVERSITY OF TORONTO AND HOSPITAL FOR SICK CHILDREN TORONTO, CANADA

Two positions are available to M.D.'s or Ph.D.'s who will be involved primarily in research, but with some teaching responsibilities. The appointments will be at the level of Assistant Professor, Associate Professor or Professor according to the qualifications of the successful applicants. One position is for a developmental biologist, preferably at a senior level; the other position is for a human biochemical geneticist interested in some affiliation with clinical problems.

Apply enclosing curriculum vitae and résumé of current and projected research interests to:

Dr. J. P. Carver
Department of Medical Genetics
Medical Sciences Building
University of Toronto
Toronto, Ontario
Canada M5S 1A8

The Department of Biology, Merrimack College (North Andover, Massachusetts 01845) announces the availability of two 1-year positions for the 1973-74 academic year: (1) **Microbiologist** (bacteriology) and (2) **Human Anatomist and Physiologist**. Preference will be given to Ph.D.'s with a strong interest in teaching. We will be interviewing at the Annual AIBS Meeting, 18-22 June 1973, in Amherst, Massachusetts.

In accordance with University policy, the School of Medicine of the University of Pennsylvania invites qualified persons to apply for the position of **Professor and Chairman of the Department of Microbiology**. A complete curriculum vitae and bibliography, together with any other pertinent information, should be sent to:

Office of the Dean
School of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania 19174

for the attention of the Chairman of the Microbiology Search Committee.

DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

In the near future, this department expects to make an appointment at the assistant professor level. We are looking for someone in **neurobiology** who will build a research program and teach professional, graduate and postdoctoral students. Women and members of minority groups are specifically encouraged to apply. We request that anyone wishing to be considered send a curriculum vitae and bibliography, and have three professional persons write letters of recommendation, to **Dr. William F. Ganong, Department of Physiology, University of California, San Francisco, California 94122**.

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Postdoctoral position available immediately for serological and immunochemical research on hepatitis-related antigens and particles. Experience in radioimmuno assay is desirable. Send curriculum vitae and list of references to
Box 325, SCIENCE

THREE POSTDOCTORAL POSITIONS

- (1) **Physical**: in coastal and estuarine circulation processes and modeling.
 - (2) **Biological**: in phytoplankton dynamics and interrelation to physical and chemical processes.
 - (3) **Analytical Chemistry**: in analysis of sea water, biological material and marine sediments.
- Successful candidates will work with an interdisciplinary team investigating oceanographic features and pollutant dispersion in New York's coastal waters. Send résumé and letters of recommendation to:

Dr. M. J. Bowman
Marine Sciences Research Center
State University of New York
Stony Brook, New York 11790

Ph.D. postdoctoral position for biochemical studies of metabolism in mosses, primarily of lipids. September 1973, \$8500 per year, no teaching. Send résumé, references to **H. Schlenk, Hormel Institute, University of Minnesota, Austin, Minnesota 55912**. Women and minority persons are encouraged to apply.

POSITIONS OPEN

UNIVERSITY OF MASSACHUSETTS/AMHERST

Remote Sensing and photogeology specialist with Ph.D., background in geology needed for Fall 1974. Also teach other specialties, possibly introductory course. Curriculum vitae to **Professor G. E. McGill, Acting Head, Department of Geology and Geography, University of Massachusetts, Amherst, Massachusetts 01002**.

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PUBLIC SERVICE OF SOUTH AUSTRALIA

PRINCIPAL RESEARCH OFFICER

Department of Fisheries

Applications to: **The Director of Fisheries, 183 Gawler Place, Adelaide, 5000, South Australia**. Salary Limits: \$11,301/11,701 per annum

Duties: Responsible to the Director for the initiation, supervision and coordination of Fisheries Research Projects, Supervision of Staff engaged in fisheries research work. Assist the Director in management of the Fisheries Resources of the State. Act for the Director in his absence.

Qualifications: Appropriate tertiary qualifications essential, preferably in postgraduate level. Experience in fisheries research and in population dynamics methods in fisheries desirable.

Special Conditions: An appointment for a specific period will be considered.

Applications, including full name, address, date of birth and details of war service, if any, for the position set out above, marked confidential and addressed as indicated, will be received until and including 29 June 1973.

NEW ZEALAND FOREST SERVICE SCIENTIST, FOREST RESEARCH INSTITUTE, ROTORUA

Applications are invited for the above position. Commencing salary up to \$7497 (NZ) per annum depending on qualifications and experience.

Qualifications desired:
Honors degree or Ph.D. in forestry or plant pathology preferably with some relevant research experience.

A knowledge of plant biochemistry and biochemical methodology would be an advantage.

Application forms may be obtained from the New Zealand Embassy, 19 Observatory Circle, NW, Washington, D.C. 20008, with whom applications close on 15 August 1973.

Please quote vacancy No. 9/73/2273.
Further particulars may be obtained from **New Zealand Forest Service, Private Bag, Wellington, New Zealand**.

SOIL MICROBIOLOGIST

Applications are invited for a full-time research position as Assistant Soil Microbiologist. Duties: Conduct field and laboratory studies to enhance denitrification and hence permit increased rates of disposal of organic wastes in soils. Requirements: Ph.D. with good academic record in chemistry, microbiology and soils; proven ability to conduct imaginative and useful research; U.S. citizenship. Submit résumé, names of three references, and a brief outline of profitable ways of examining this problem to: **Dr. C. R. Frink, Chief, Department of Soil and Water, Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, Connecticut 06504**.

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COURSES

UNIVERSITY OF CHICAGO

MULTIVARIATE ANALYSIS OF QUALITATIVE DATA TRAINING SESSION

August 23-26, 1973

Study in this session will focus on two powerful computer programs for the analysis of qualitative data by log-linear models. The session will include lectures, study groups, and computer laboratory work. Write: **R. D. Bock, University of Chicago, 5835 S. Kimbark Avenue, Chicago, Illinois 60637**.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN BACTERIAL PHOTOSYNTHESIS

Available immediately for research on energy-linked reactions in bacterial photosynthesis. Recent Ph.D. in biochemistry, for a period of 1 year. Send curriculum vitae to **Dr. Joseph A. Orlando, Department of Biology, Boston College, Chestnut Hill, Massachusetts 02167**.

FELLOWSHIPS

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 1974. 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.

All emoluments are taxable. NZ\$1 is approximately 47p sterling or US\$1.19.

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\$9297 to NZ\$13903 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 toward the cost of transport of personal effects. The emolument will be NZ\$7770 a year.

Application forms and further particulars may be obtained from: **The Senior Administration Officer, National Research Advisory Council, Box 8004, Wellington, New Zealand; The Scientific Liaison Office, New Zealand High Commission, New Zealand House, Haymarket, London S.W.1 Y4TQ, England; from the New Zealand Embassy, 19 Observatory Circle, NW, Washington, D.C. 20008, U.S.A.; from the Office of the High Commissioner for New Zealand, Suite 804, Commonwealth Building, 77 Metcalfe Street, Ottawa, Canada, Kip 5L6; from the Office of the High Commissioner for New Zealand, P.O. Box 820, Canberra 2601, A.C.T. Australia; from the New Zealand Embassy, 20-40 Kamiyama-cho Shibuya-ku, Tokyo 150, Japan; from the New Zealand Embassy in Bangkok, Bonn, Brussels, Jakarta, The Hague, Lima, Paris, Rome, Saigon, Santiago, Seoul; from the New Zealand Consulate-General in Athens, Geneva, Los Angeles, New York, San Francisco; from the New Zealand Commission in Hong Kong; and from the Office of the High Commissioner for New Zealand in Kuala Lumpur, Singapore, and Sydney.**

Applications must reach the Council's office by 30 September 1973.

Postdoctoral fellowships in paleo-climatology and paleo-oceanography for work with a research group studying climatic changes of the Quaternary. Fellowships are being offered to scientists with backgrounds in either (1) deep-sea micropaleontology/mineralogy/sedimentology or (2) meteorology/climatology/physical oceanography.

Applicants should have background and experience in the quantitative modeling techniques used in the above fields. Send résumé, list of publications, and names of referees to **Box 317, SCIENCE**. Application deadline 22 June 1973.


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