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AAAS is pleased to announce the availability of a new publication—**ENERGY: Use, Conservation, and Supply**, a collection of enduring and readable articles designed to help the individual seeking to understand the energy problems we face and looking for practical solutions to these problems.

ENERGY: Use, Conservation, and Supply is a compendium of articles that originally appeared in *Science* during 1973-1974. Together, these articles present an interesting and informative look at energy problems as they affect and are affected by people and institutions, by existing and potential resources, and by developing technologies. Whether you intend it for personal use or for use in classroom or seminar-type settings, **ENERGY: Use, Conservation, and Supply** will be a valuable addition to your library. Available in your choice of paperbound or casebound editions.

Edited and with an introduction by Philip H. Abelson

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ENERGY AND THE FUTURE

Now in its third printing, this authoritative book is a valuable resource for anyone wishing to explore the scientific and technological basis of the energy dilemma. It surveys current and future sources of energy, describes the relevant technologies, assesses their potential impact on the environment, and identifies the technical obstacles to their development.

Specific topics discussed include: energy from fossil fuels; coal gasification; combined-cycle power plants; magnetohydrodynamics; nuclear energy; pro's and con's of nuclear power; breeder reactors; alternative energy sources; geothermal energy; solar energy: thermal conversion and photovoltaics; renewable fuels from wastes; fusion—magnetic containment; laser-induced fusion; energy transmission; transmission lines; fuel cells; hydrogen, the ultimate fuel; energy conservation; efficiency of energy use; energy needs and conservation policy; research priorities and energy policy.

By Allen Hammond, William Metz, and Thomas Maugh II

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Personnel Placement

POSITIONS WANTED

Biochemist/Molecular Biologist. Ph.D. 1965. Experience in nucleic acid enzymology, hybridization, polynucleotide and DNA synthesis, protein biosynthesis, steroid receptor, hormonal regulation. Many publications. Seeks teaching, research, and development position in college, university, hospital, industry. Box 243, SCIENCE. X

Biologist. Desire position as general biology laboratory coordinator/preparator with additional duties in genetics, entomology, or microbiology courses. B.S. biology, M.S. entomology expected summer 1975. Box 235, SCIENCE. X

Geologist. 31, Ph.D., seeks challenging position, expertise in stratigraphy, sedimentology, and remote sensing; presently assistant professor. Box 236, SCIENCE. X

Gross Anatomist-Histologist-Electron Microscopist: Ph.D.; desires teaching-research position. Extensive research and teaching experience. Numerous publications. Box 217, SCIENCE. 5/30

Lab Assistant. B.S. (biology), Brandeis, 1975. Some experience, good with animals. Eager to learn. Flexible as to job and location. Box 237, SCIENCE. X

Highly experienced and qualified **Neurophysiologist** available for research job. For details, write: Dr. P. Simhadri, IJ18, Irrammanzil, 500004, INDIA. X

Science Editor. Knows all phases of publishing from rough draft to printed product. Strongest areas: medicine, chemistry. Box 238, SCIENCE. 6/6

Veterinarian-Physiologist. D.V.M., Ph.D. 1969. Reproductive endocrinology, radioisotope methodology, and radiation biology. Postdoctoral experience in radioimmunoassays, animal medicine, and industrial research in oncology and chemotherapy. Publications. Seeks government, academic, or industrial position. Box 239, SCIENCE. X

POSITIONS OPEN

ASSISTANT PROFESSORS, RESEARCH ONCOLOGISTS, POSTDOCTORAL FELLOWS

The Division of Oncology, Department of Surgery, UCLA School of Medicine, has the following research positions available:

- 1) **Assistant Professor**—Tumor Immunologist with significant research experience in cellular immunology and human tumor immunology.
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- 5) **Postdoctoral Fellows**—Positions available for 1976.

Applications from women and minority groups encouraged. An Affirmative Action Employer. Please direct inquiries and send curriculum vitae, by 1 August 1975, to: **Donald L. Morton, M.D., Professor of Surgery, Chief, Division of Oncology, Department of Surgery, University of California School of Medicine, Los Angeles, Calif. 90024.**

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE DEPARTMENT OF PATHOLOGY

In accordance with University principles of fair-practice employment, applications are invited for position of **assistant professor or associate professor of pathology.** Applicants must be Board-certified in Pathologic Anatomy with strong interest and experience in Cytology.

Applications, including curriculum vitae and four references, should be sent to:

Dr. H. T. Enterline, Director
Division of Pathologic Anatomy Hospital
University of Pennsylvania
34th and Spruce Streets
Philadelphia, Pa. 19104

POSITIONS OPEN

ASSISTANT PROFESSOR in the Department of Behavioral Sciences, Harvard School of Public Health. M.D. required, with training in both psychiatry and cultural anthropology. Someone who will take responsibility for teaching physicians and other health workers aspects of cultural belief as these influence the patient-physician transaction and personal health and illness behavior. Should have research interests in the area of comparative behavioral studies of medical care.

Qualified women and minority group members are encouraged to apply. Interested individuals should write to **Mrs. Emily Morrison, Assistant to the Dean, Harvard School of Public Health, 677 Huntington Avenue, Boston, Massachusetts 02115.**

ASSISTANT PROFESSOR DEPARTMENT OF PATHOLOGY

Neurochemistry—plasma membrane proteins—cell and subcellular fractionation.

Contact:

Dr. N. Gonatas
447 Johnson Pavilion G/2
University of Pennsylvania School of Medicine
Philadelphia, Pa. 19174
Telephone: 215-243-6544

Ph.D. BIOCHEMIST/PHYSIOLOGIST

Research position available at Instructor level. Qualifications: Postdoctoral experience; good background in kinetics and statistics; experience in bone metabolism. Salary dependent upon qualifications. *Female and minority candidates are encouraged to apply.* For information write: **D. J. Baylink, M.D., Seattle VA Hospital, Seattle, Washington 98108.**

BIOLOGIST

Instructor or assistant professor, Ph.D., starting 1 September 1975. Teach courses in cell biology, plant physiology, microtechnique, invertebrate zoology, introductory biology. Teaching experience and leadership potential desired. Salary range: \$10,500 to \$11,000. Screening of applications to begin 20 June 1975. Application should be supported by résumé, academic transcripts, and three reference letters addressed to: **Chairman of Search Committee, Department of Science, Keene State College, Keene, N.H. 03431. An Equal Opportunity Employer.**

BIO-MATHEMATICIAN/AGRICULTURIST

University of California, Davis. The Department of Vegetable Crops has an opening in the Agricultural Experiment Station for a person with a rank equivalent to Assistant Professor to conduct research and teaching programs in biological modeling, systems analysis of crop production, and applied statistics. The appointment will be on an 11-month basis. Applicants must have a Ph.D., preferred training in plant biology, statistics, and computer science. Preference will be given to qualified applicants with knowledge in production of annual crops. Approximately 75 percent of the time will be devoted to research, with general objectives to study, describe, innovate, and improve vegetable production and quality. General program areas would be growth, culture, and physiology. Specific research area could be soil-plant-water relationships, growth-development-environment, or one of several other possibilities utilizing systems analysis and biological modeling. Teaching duties include direction of graduate student research, supervision of graduate students on experimental design, statistics, and computer programming. Undergraduate/graduate courses in applied statistics may develop.

Applicants should submit curriculum vitae and list of publications, including reprints, undergraduate and graduate transcripts, and three letters of recommendation by 1 July 1975, to: **Dr. Mas Yamaguchi, Search Committee Chairman, Department of Vegetable Crops, University of California, Davis, California 95616. Telephone: 916-752-1743. Résumés received after 1 July may not be considered.**

The University of California is an Equal Opportunity/Affirmative Action Employer.

CLINICAL INVESTIGATOR. Position available in Cancer Center for well-trained Physician interested in a career in basic aspects of clinical cancer research to join established group working on cancer etiology, pathogenesis, and prevention. Board-certified or eligible internist preferred. Send résumé and three references to: **Ms. M. T. Dixon, The Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Ave., Philadelphia, Pa. 19111. An Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR, immediate opening in unique, internationally known department for research and teaching in science and technology of fermented products, wine, and brandy, especially production and engineering aspects. Ph.D. with qualifications in chemical or biochemical engineering required. Food or fermentation science or related fields are of supporting value, but wine expertise may be learned later. Send résumé and references to **Dr. A. D. Webb, Chairman, Department of Viticulture and Enology, University of California, Davis, California 95616. The University of California is an Equal Opportunity Employer. We encourage applications from persons regardless of sex, ethnic, or racial background.** Applications received after 31 July 1975 are not assured consideration.

ASSISTANT PROFESSOR, BIOCYBERNETICS

Applications are invited for the above position at the University of California, Los Angeles, from individuals with the following qualifications: (i) Ph.D. or M.D. degree; (ii) "hybrid" training and/or experience in the system sciences, computing and physiology or medicine; (iii) demonstrated competence and sincere interest in both teaching and independent research; (iv) demonstrated competence and continuing research interest in humoral systems, biochemical systems, metabolism, or related fields; (v) ability to teach interdisciplinary courses involving the development and application of advanced systems analysis and identification methods in physiology, medicine, and/or pharmacology. A "systems physiologist" with training and interest in animal experimentation and with the qualifications listed above is preferred. Send curriculum vitae, list of publications, and names of three references to: **Professor J. J. DiStefano, III, Engineering Systems Department, 4731 Boelter Hall, University of California, Los Angeles, California 90024. Telephone 213-825-7482. An Equal Opportunity/Affirmative Action Employer.**

DEAN, SCHOOL OF MEDICINE

The Medical College of Georgia is seeking a Dean for its School of Medicine. The candidate should have an M.D. degree and an established reputation for leadership in medical education, administration, and research. Interested persons are invited to submit applications or nominations, including curriculum vitae and bibliography, by 15 June 1975 to **Arle R. Mansberger, Jr., M.D., Chairman, Search Committee, Department of Surgery, Medical College of Georgia, Augusta, Georgia 30902. The Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.**

THE JOHNS HOPKINS UNIVERSITY IS SEEKING A DEAN OF THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

The Johns Hopkins University School of Hygiene and Public Health, a leader in the field since its founding in 1916, is now accepting applications and nominations for the position of Dean. Persons with a distinguished record of accomplishment in teaching, research, and administration are invited to apply. It is anticipated that this opening will be filled by 1 July 1976. *Applications and nominations will be considered without regard to race, religion, sex, or national origin and should be sent to:*

Provost Harry Woolf, Chairman
Search Committee for the Dean of the School of Hygiene and Public Health
The Johns Hopkins University
Baltimore, Maryland 21218

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DIRECTOR OF RESEARCH IN ANESTHESIA; Ph.D. with experience in pharmacological or physiological research related to anesthesia. Rank and salary depending on ability and experience. Will conduct research, train fellows in research, and teach. Joint appointment with Pharmacology Department. Must have experience with obtaining grants. Contact **Dr. Robert Reynolds, Department of Anesthesia, Tufts New England Medical Center Hospital, 171 Harrison Avenue, Boston, Mass. 02111. An Equal Opportunity Employer.**

POSITIONS IN GENETICS. Research Associate; Ph.D. Emphasis on human genetics, postdoctoral experience preferred. Duties to include assistance of students in data analysis and development of programmed learning. Federally funded, salary to \$15,000 (this is a readvertisement). Postdoctoral Fellow in the following areas of Human Genetics: Behavior, Statistical, Population, or Molecular. Salary \$10,000 to \$12,000. Write **John A. Hunt, Chairman, Department of Genetics, University of Hawaii, Honolulu, Hawaii 96822. An Equal Opportunity/Affirmative Action Employer.**

University of Amsterdam

In the Subfaculty of Biology (Unit of Special Zoology) is a vacancy for the post of

lecturer

in systematic and geographic zoology.

The new lecturer will be charged with teaching students in Biology, both on pre- and post-candidate level, and with supervision of their research. The actual activity of the Unit are in the field of taxonomic zoology, zoogeography, history of natural science and autecology. These duties will be executed in close cooperation with the professor and staff members of the Unit. Preferably, the new lecturer will have, in addition to good teaching capacities, research experience in the field of phylogenetic taxonomy and/or historical zoogeography. The candidate must have the intention to learn Dutch.

Applications, containing as much relevant information as possible, should be directed, within 4 weeks after the publication of this periodical, to Prof. Dr. J. H. Stock, Institute of Taxonomic Zoology, Plantage Middenlaan 53, Amsterdam, The Netherlands, quoting nr. 282

SENIOR RESEARCH ASSISTANT TERATOLOGY

Searle Laboratories, a division of G. D. Searle & Co. located in a north suburban area of Chicago, currently has an excellent opportunity available within our Pathology-Toxicology Department. We're looking for a Senior Research Assistant to supervise and conduct teratology studies within the Teratology Unit.

As part of our Pathology-Toxicology Department staffed by 40 people, you will be assisting in safety evaluations of potential and marketed pharmaceutical products. This responsible position, reporting to a doctorate level researcher, requires a Master's degree in the biological sciences. Heavy emphasis in anatomy, embryology, histology, and biochemistry is needed. Additionally, 3-5 years of teratology laboratory experience in all phases of fetal examination are required along with a developed supervisory and decision-making ability.

In return, we offer a compensation package equal to your efforts. To arrange a confidential interview, send a resume with salary history and requirements to:

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Johns Hopkins

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MARINE BIOLOGY

Assistant or Associate Professor of Marine Biology. A doctoral degree in Marine Biology with specialization in invertebrate zoology or botany; college-level teaching experience required. Salary range from \$12,960 to \$18,570 plus \$3,000 housing allowance and \$1,000 relocation expenses. Position available 15 August 1975. Send résumé and letter of application to **Dr. James A. Dougherty, Chairman, Division of Science and Mathematics, College of the Virgin Islands, St. Thomas, U.S. Virgin Islands 00801.** The College provides an Equal Opportunity to all candidates.

POSTDOCTORAL POSITION in Biochemistry (\$12,000 minimum) available on or before 1 September 1975. Research involves the synthesis of radioactive analogs of ATP for affinity labeling of enzymes. Send curriculum vitae and three letters of recommendation to **Dr. Louis Schlisfeld, Department of Biological Chemistry, University of Illinois at the Medical Center, 1853 West Polk St., Chicago, Illinois 60612.** An Equal Opportunity Employer.

LINCOLN UNIVERSITY COLLEGE OF AGRICULTURE New Zealand LECTURER/SENIOR LECTURER IN AGRICULTURAL MICROBIOLOGY

The Council of Lincoln College invites applications for the position of Lecturer/Senior Lecturer in Agricultural Microbiology. Applicants should have a postgraduate degree in Science or Agricultural Science, and have appropriate teaching and research experience.

Duties include lecturing to Degree and Diploma classes particularly in those aspects relating to plant diseases and the supervision of postgraduate students. Research in a field of Microbiology related to Agriculture will be encouraged.

The successful applicant will be appointed as Lecturer or Senior Lecturer according to qualifications and experience. Present academic salary scales are: Lecturer NZ\$7,787-\$9,838; Senior Lecturer NZ\$10,007-\$11,718 (Bar) \$12,062-\$12,743. New Zealand Government Superannuation available.

Removal expenses and fares of the successful applicant will be reimbursed up to specified limits.

Conditions of Appointment giving further details of this position at Lincoln College can be obtained from the Association of Commonwealth Universities (Apts), 36 Gordon Square, London WC1H 0PF, or from the Registrar of the University.

Applications close on 30 June 1975.

POSITIONS OPEN

PLANT SYSTEMATIST

The College of Biological Sciences, The Ohio State University, invites qualified applicants to apply for the following faculty position:

Assistant Professor of Botany with specialty in plant systematics. Candidates must hold the Ph.D., be interested in teaching at both the undergraduate and graduate level, curating the University herbarium, and developing a strong research program. Appointment will be for 9 months, beginning 1 October 1975. Salary range: \$12,168 to \$13,248. Candidates should submit a complete curriculum vitae, including reprints of published papers and at least three letters of recommendation, to **Dr. Thomas N. Taylor, Chairman, Department of Botany, College of Biological Sciences, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210.** Deadline for receipt of all materials is 6 June 1975. An Equal Opportunity/Affirmative Action Employer.

IMMUNOCHEMIST

Position for Ph.D. experienced in characterization, isolation, and behavior of human serum proteins in development of diagnostic products. Opportunity to participate in growth of new company through stock option. West Coast location.

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UNIVERSITY OF READING

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PREDOCTORAL STUDY IN PHYSIOLOGY

The Department of Physiology provides graduate training leading to the Ph.D. degree in areas of cellular and molecular endocrinology; cell membrane transport; lipid metabolism and obesity; myocardial, skeletal, and smooth muscle physiology and biophysics; neurophysiology; and tumor and cell biology. Assistantships are available for qualified applicants. For details write to: **Chairman, Graduate Committee, Department of Physiology and Biophysics, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Illinois 60680.**

RESEARCH ASSOCIATE

Applied mathematicians and/or fluid mechanics needed for research on mathematical modeling of lake currents and aquatic ecosystems. Candidates should have common sense and competence in numerical methods and fluid mechanics. Competence in or willingness to learn biology and chemistry is desirable. Applicants should send résumé and references to **Professor Wilbert Lick, Department of Earth Sciences, Case Western Reserve University, Cleveland, Ohio 44106.** An Equal Opportunity Employer.

RESEARCH ASSOCIATE with Ph.D. in Biophysics and strong background in biochemistry for work on ongoing research program in the areas of thrombosis. Applicant must have at least 3 years of previous research experience in the areas of hemostasis and thrombosis particularly with work on the functions of platelets as evidenced by publications. Must be also skilled in cell microelectrophoresis, plasma protein purification, and radioisotope techniques and in processing and examining biological specimens for transmission and scanning electron microscopy. Familiarity with tissue culture and routine platelet function tests highly desirable. The candidate selected would assume immediate responsibility of the better part of a research project funded by a federal agency on a contractual basis. Wish to fill position by 1 July 1975. Send application with full particulars, copies of pertinent publications, and names of three references to: **Pathologist-in-Chief, Pawtucket Memorial Hospital, Pawtucket, R.I. 02860.**

SCIENTIFIC WRITER

Part-time services of a scientific writer to edit and assist in the preparation of manuscripts in the biological sciences. Proximity to New England, preferably the Boston area, essential.

Box 240, SCIENCE

POSITIONS OPEN

RESEARCH ASSOCIATES TUMOR IMMUNOLOGY

Two contract-supported positions available 1 June in La Jolla, California (San Diego area), research institution to (i) develop techniques for the selective enrichment of inflammatory cells recovered from disaggregated neoplasms or (ii) investigate macrophage-mediated cytotoxicity. Applicants with backgrounds in immunology and working familiarity with cell separation techniques or macrophages are preferred. Salary \$13,500 to \$15,500. Send complete résumé to **Box 232, SCIENCE.**

SENSORY NEUROANATOMY —ULTRASTRUCTURE

Interdisciplinary center for sensory sciences has faculty position for investigator of neurosensory system by modern anatomical techniques including ultrastructure and light microscopy. Must lecture on neuroanatomical systems, offer advanced systems and techniques-oriented graduate seminar, and train graduate and postdoctoral students in laboratory. Rank and salary open. Send curriculum vitae to: **Dr. H. G. Sperling, Sensory Sciences Center, 6420 Lamar Fleming Avenue, Houston, Tex. 77025.** An Equal Opportunity/Affirmative Action Employer.

STAFF POSITION in small primate oncornavirus research group at National Cancer Institute currently available for recent Ph.D. and/or M.D. with proven ability in mammalian somatic cell hybridization, cytogenetics, and competition radioimmunoassay. Salary range approximately \$15,000 to \$29,000 yearly depending upon experience and credentials. Also, **TISSUE CULTURE TECHNICIAN** for above with master's degree, publications, and at least 5 years of experience with oncornaviruses. Salary approximately \$12,500. Send curriculum vitae and references to **Box 241, SCIENCE.**

SUPERVISORY PHARMACOLOGIST— FDA/BuDrugs

Excellent opportunity to supervise staff of pharmacologists in evaluating data support safety of new Cardiovascular, Renal, G-I Drugs. Requires high degree of judgment, leadership, ability to function effectively on BIOMED Team monitoring progress of investigation in humans. Also ability to communicate effectively with MFRS/Academia/Investigators. Must be U.S. citizen, have comprehensive background in pharmacology and/or toxicology and experience in one of the cited drug classes. Career-conditional appointment. *Equal Opportunity Employer.* Vacancy Announcement PPD-75-71-B. Send SF 171 to **PPO, Room 5B-21, Mr. Brendle, 5600 Fishers Lane, Rockville, Md. 20852.**

VIROLOGISTS. Two positions open, immediately available; postdoctoral, salary range \$10,000 to \$13,500 per annum. Applicants should have experience in tissue culture and contemporary methods of molecular virology. Experimental background in interferon area desirable. Applicants expected to send résumé (including reprints of major publications) and three letters of reference to: **Dr. W.A. Carter, Chairman, Department of Medical Viral Oncology, Roswell Park Memorial Institute, 666 Elm St., Buffalo, N.Y. 14263.**

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The Subfaculty of Chemistry of the "Vrije Universiteit", Amsterdam, has a vacancy for a

full professor in analytical chemistry

The successful candidate is expected to participate in the coordination and direction of educational and research activities within the Analytical Chemistry Section of the Department of General and Analytical Chemistry.

Applicants with a general analytical training and who have productive experience in environmental analysis, or those who are willing to attend to this aspect of analysis, will be considered for this post.

The "Vrije Universiteit" was founded in 1880 as a private non-denominational christian institution and is now a fully state-subsidised private university. The preamble to its charter speaks of the Christian idea of service as the university's guiding principle. It will be appreciated if candidates will express their attitude towards this principle in their application.

Applications (accompanied by a curriculum vitae, a list of publications and references), as well as suggestions concerning qualified candidates for this function, should be submitted within one month after appearance of this advertisement, to the Department of Personnel Affairs, Vrije Universiteit, De Boelelaan 1105, P.O. Box 7161, Amsterdam - 1011, The Netherlands.

Further information is obtainable from the secretary of the nomination committee, dr. N. H. Velthorst, De Boelelaan 1085, Amsterdam - 1011, The Netherlands; telephone: 020 - 548 35 78 or 548 47 79.



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