genetic basis for photosynthetic capacity involves relatively few genes at the rate-determining step.

The conference provided a forum for the testing, exchange, and development of ideas, and for the organization of a number of cooperative projects in this rapidly expanding field.

R. G. S. BIDWELL

Case Western Reserve University, Cleveland, Ohio 44106

Calendar of Events

Courses

Computer Methods of Network Analysis, Los Angeles, Calif., 20 July–2 August. Is intended for engineers, physicists, and applied mathematicians using digital computers to solve network problems arising in electrotechnology and other physical fields which can be represented by network analogies. (P.O. Box 24902, Engineering and Physical Sciences Extension, University of California Extension, Los Angeles 90024)

Fluid Control Systems, Stillwater, Okla., 22 July-2 August. The course will summarize the basic techniques underlying the analysis and design of fluid power control and fluidic systems. During the first week emphasis will be on fundamental concepts, including static and dynamic modeling of components and systems, computer-aided analysis and design, contamination control, and fluid logic systems analysis. The second week will be devoted to recent developments and current research activities with emphasis on advanced systems for hostile environments. Fee: \$250. (Director, Engineering and Industrial Extension, Oklahoma State University, Stillwater 74074)

Laboratory Training Courses, Atlanta, Ga., July 1968-June 1969. These courses are being given at the National Communicable Disease Center and will begin in September. Most of the courses are for 1 or 2 weeks, and the deadline for applications is approximately 6 weeks before classes are scheduled. Some of the course subjects are: human blood morphology, laboratory methods in respirovirology, isolation of Salmonellae from food products and animal feeds, medical mycology, laboratory diagnosis by serologic methods, and laboratory methods in enteric bacteriology. (Training Office, Laboratory Pro-gram, National Communicable Disease Center, Atlanta 30333)

Thin Film Technology and Devices, Austin, Texas, 15–19 July. This course will survey the most prominent thin-film technologies, including advantages, disadvantages, and methodologies to assist the engineer, scientist, and administrator in selecting those techniques most useful to the solution of his technical problems. Participants will gain a basic understanding of the more important thin-film techniques. Fee: \$175. (Engineering Institutes, College of Engineering, c/o Division of Extension, University of Texas at Austin, Austin 78712)

Personnel Placement

POSITIONS WANTED. 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

POSITIONS OPEN. Rates listed below—no charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Minimum ad: 1 inch. Ads over 1 inch will be billed to the nearest half inch. Frequency rate will apply only to repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been established.

Single insertion \$70.00 per inch 4 times in 1 year 65.00 per inch

COPY for ads must reach SCIENCE 4 weeks before issue date (Friday of every week).

Send copy for Personnel Placement advertising to:

> SCIENCE 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

Anatomist-Histologist with extensive experience in electron microscopy seeks teaching and/or research position. Box 255, SCIENCE. X

Biochemist, Ph.D. Nine years' academic teaching, research, administrative experience (biochemistry, microbiology). Strong carbohydrates and hormone metabolism background; experience in radio immunoassays, automated chemistry. Publications. Desires teaching, research, or administrative position, university or industry. Box 256, SCIENCE.

Biochemistry Ph.D.; M.S. physiological chemistry, nutrition minor; research fermentation, flavor, nutrition; prefers food, drug research appointment. Woodward Personel Bureau, 185 North Wabash, Chicago 60601. X

Biochemist, 28, Ph.D. Britain 1964. Competent independent researcher. Enzymes, lipids, cell ultrastructure. Now in Ottawa, seeks research or academic position in Canada. Box 250, SCIENCE. 7/12

Biologist, M.S. 1966, teaching experience general biology laboratories, seeks September college teaching position. Box 251, SCIENCE, X

Developmental Biologist, Ph.D. Experience in tissue culture, immunology, electron microscopy. Desires medical research with opportunity for independent investigation. Box 257, SCIENCE. 7/12, 19

Biophysicist, Bachelor's degree in engineeringphysics, 10 years' industrial R&D experience, will receive Ph.D. in Biophysics June 1968. Desires research job in molecular biophysics. Box 246, SCIENCE. 7/12

Botanist Ph.D. Research/teaching experience. Lecturer, Canadian University. Taught general biology, genetics, plant taxonomy, ecology, anatomy, cryptogamic. Desires college/university teaching. VARMA, 153 Regent, Fredericton (Canada). X

Business Administrator, life-science research and college financial management, building, personnel, accounting. Box 266, SCIENCE. X

Chemist, Ph.D. Wide experience in spectroscopic and other instrumentation for bioscience seeks research or academic position. Box 262, SCIENCE.

Editor-Writer, experienced in both physical and biological sciences. Specialist in medicine and chemistry. Minimum \$15,000. Box 247, SCIENCE.

POSITIONS WANTED

Entomologist, Ph.D. Environmental ecology. Physiology, biochemistry, biometrics, zoology. Experienced, teaching, research. Publications, active research program in fruit insect control. Seeks relocation. Research-teaching or research desired. Box 258, SCIENCE. X

Genetics-Cytogenetics Ph.D. 1968. Plant physiology minor, seeks teaching and/or research position for September. Jarnail Singh, 509 N. Manhattan, Kansas. X

Marine-Cytologist. Electron microscopist. M.S. teaching and research experience. Ph.D. near completion. Seeking teaching/research position for September. Box 252, SCIENCE. X

Microbiologist/Radiation Biologist, expecting Ph.D. in August from major eastern university. Wishes to teach undergraduate. Six years' teaching experience. Box 259, SCIENCE. X

Physiologist, Ph.D. Fourteen years' experience in undergraduate and professional schools. Publications. Desires academic position, September 1968. Box 260, SCIENCE. X

Research Assistant, M.S. Experience and graduate course work in developmental biology, genetics, biochemistry and radioisotopes. University or university-affiliated position preferred. Box 253, SCIENCE. X

Research Manager, advanced degrees, extensive experience in academic and contract research center specializing in physiology, pharmacology, and toxicology. Seeks challenging position in research and administration. Box 254, SCIENCE. 7/12

Science Editor. Experienced editor/abstractor seeks editing contracts for proceedings, small journals. B.A., biosciences, psychology, journalism. Strong in graphic arts. Specialty, redesigning journals for better communication, assignments. Box 248, SCIENCE. X

Virologist, Ph.D., 44, single. Experimental pathology. Veterinarian. Fifteen years' industrial, academic research-teaching experience. Presently professor large university. Desires challenging opportunity research, administrative, and so forth. Box 264, SCIENCE. 7/12, 19

Invertebrate Zoologist, Ph.D. Seeks teaching/ research position in developmental biology, entomology, invertebrate zoology, and so forth. Experienced, research, teaching, administration. Publications. Box 263, SCIENCE.

POSITIONS OPEN

PH.D. BIOCHEMISTS

ANALYTICAL BIOCHEMIST

To supervise our Bioanalytical Section. The responsibilities include: (a) supervision of a group of technicians who carry out routine biochemical analyses; (b) adaptation of new bioanalytical methods to automated instrumentation; and (c) the development of methods of analysis for our products or their metabolites in biological fluids.

BIOCHEMIST

For research in drug metabolism. This involves studies of the absorption, distribution and excretion of potential new products as well as the isolation and identification of their metabolites.

Our Company is situated in Skokie, a northern suburb of Chicago. Please send résumé to R. E. Ranney, Ph.D., Division of Biological Research, G. D. Searle & Co., Box 5110, Chicago, Illinois, 60680. POSITIONS OPEN

RESEARCH BIOCHEMIST

We are seeking a person with a strong bio-chemistry or chemistry background possessing an M.S. or B.S. degree with 2 to 3 years' laboratory experience in the areas of carbo-hydrate and lipid metabolism. Should be capable of working with minimal amount of supervision. Successful candidate will be knowledgeable in physiology or endocrinol-ogy. Experience with small animals and radioisotopes also desirable.

Well-equipped laboratories in central Phila-delphia offer ideal working conditions, Ex-cellent benefit and salary program com-mensurate with training and experience, Please submit resume in confidence to ROBERT B. TURNBULL

SMITH KLINE & FRENCH SK LABORATORIES

1500 Spring Garden Street Philadelphia, Pa., 19101 An Equal Opportunity Employer Member of Plans for Progress

GLYCOPROTEIN BIOCHEMISTRY

An exceptional opportunity to participate in a basic research program on the enzy-matic mechanisms of mucus biosynthesis and secretion. We are seeking an outstanding young

scientist with imagination, initiative and creative ability who can supervise junior creative ability who can supervise junior professional and technical personnel and can work effectively with senior scientists in other disciplines. Must have excellent doctoral educational background and ex-perience in latest biochemical/enzymatic methodologies, and be capable of contrib-uing to the planning and implementation of long-range basic research programs. Although preference will be given to candidates experienced in this field, post-doctoral training with established aca-demic investigators is available. We offer a challenging and stimulating research environment, excellent facilities, top salary and complete company-paid benefits. Please submit your resume in confidence

blease submit your resume in confidence to Dr. R. W. Kinney, Director of Scien-tific Employment

SMITH KLINE & FRENCH <u>Sk</u> LABORATORIES 1580 Spring Garden Street

Philadelphia, Pa., 19101 An Equal Opportunity Employer Member of Plans for Progress

CLINICAL RESEARCH

Ph.D. in biological sciences to participate in program of clinical evaluation of new drugs. Studies of efficacies, safety and mechanism of action, collaborate in experimental design, data analysis and final reports. Excellent salary and benefits.

Submit your resume to: Director of Clinical Pharmacology

SANDOZ, INC. Hanover, N.J. Route 10 An Equal Opportunity Employer

5 JULY 1968

POSITIONS OPEN

BIOCHEMIST—Research in Arteriosclerosis (some Enzymology). University of Pennsylvania, Phila. Adequate salary; comprehensive fringe benefits. G-59 P.O. Box 2066, Phila., Pa. 19103. Females may apply. An Equal Opportunity Femplover Employer.

UNIVERSITY OF MIAMI DEPARTMENT OF BIOCHEMISTRY

DEPARTMENT OF BIOCHEMISTRY Applications are invited from B.S., M.S. (or equivalent) in Chemistry, Biochemistry (or related science) for a Research Assistant in Microbial Biochemistry. Applicants should have experience in some of the following techniques: spectroscopy (u.v., i.r., mass); gas chromatography, enzymol-ogy; organic syntheses; radio isotopes, continuous cultivation of micro-organisms. An interest in the use of instruments and automatic equipment is required. Apply with full details of career and the names of three references to Dr. D. W. Ribbons, Department of Biochemistry, University of Miami Medical School, P.O. Box 875, Biscayne Annex, Miami, Florida 33152.

POSITIONS OPEN

Biochemist, Ph.D. Canadian Dental Faculty in-vites applications for a position, the principle duty of which would be to assist in the teaching of biochemistry and applied pharmacology to dental students. The appointment is open on July 1st, 1968, at the Associate Professor level with a yearly salary between \$13,000 and \$17,-500. Adequate research facilities in an established laboratory are available. A dental degree is not necessary. Inquiries should be addressed to: **Professor K. A. McMurchy, Head, Basic Science Department, Faculty of Dentistry, University of Alberta, Edmonton, Alberta, CANADA.**

CLINICAL BIOCHEMIST Ph.D./ASSISTANT DIRECTOR OF BRANCH LABORATORY: Recent or experienced Ph.D. biochemist in the field of clinical chemistry. Salary range \$15,000-20,000 per annum, depending on experience and qualifications. Profit sharing incentives and other professional benefits. Send complete and detailed résumé to P.O. Drawer 1182, Beverly Hills, Cali-fornia 90213. All applications will be considered and acknowledged.



IMPERIAL CHEMICAL INDUSTRIES LIMITED AGRICULTURAL DIVISION

invite applications for the newly established position of

BIOCHEMIST

in a group of microbiologists, chemists and chemical engineers who are carrying out research into the use of natural gas for the production of single cell protein ("Biomass"), at Billingham, Teesside.

The successful candidate will be responsible for the biochemical evaluation of biomass as a protein-rich supplement for use in animal feedstuffs and liaison with animal nutritionalists will be necessary in this work. He will also be expected to carry out biochemical research of the metabolism of methane oxidizing microorganisms.

Candidates should have a sound background in both theoretical and practical biochemistry. They should have obtained a Ph.D. in biochemistry and a further one or two years postdoctoral experience in microbial biochemistry would be an advantage.

The Company operates House Purchase, Profit Sharing and contributory Pension Schemes and offers financial assistance towards Removal Expenses for married men. Social and sports facilities are first class.

Write, giving brief details of age, qualifications and experience to:

Mr. R. M. Pearson, Personnel Department, Imperial Chemical Industries Limited, Agricultural Division, P.O. Box No. 1, Billingham, Teesside. U.K.

POSITIONS OPEN

Analytical Chemist, M.S. or Ph.D. for laboratory supervision, trace analysis with research and de-velopment opportunities in broad sanitary chem-istry program. Strong modern instrumentation background essential. Attractive salary and fringe benefits in university-operated laboratory. Send résumé and salary requirements to: Dr. R. L. Morris, State Hygienic Laboratory, University of Iowa, Iowa City, Iowa 52240.

PROTEIN CHEMIST, Ph.D. or M.D. with experience. To work on isolation and structure of brain proteins. Full-time research position at hospital affiliated Research Institute in New York City.

SALARY:—Dependent on qualifications. Include fringe benefits and increments. Send detailed curriculum vitae and references to: BOX 267, SCIENCE

DIRECTOR OF COMPUTING CENTER STATE UNIVERSITY OF NEW YORK AT BINGHAMTON BINGHAMTON, NEW YORK

Applications are invited for Director of the University Computer Center. Ph.D. in any dis-cipline required to facilitate joint appointment with relevant academic department, if desired. Salary open and competitive with commensurate experience. University is AAUP rated "A" in compensation levels.

Position involves complete responsibility for directing an expanding computer center with a present staff of 35. The Center currently has an IBM system 360/40 with plans to upgrade to a larger system in the immediate future.

With a faculty of 350, the University is located 180 miles from New York City in a metropolitan area of 300,000. Current undergraduate and graduate enrollment is 4000, scheduled to expand to 10,000 by 1974.

Requests for further information or a formal application consisting of curriculum vitae and names of three references should be submitted to: DR. RICHARD A. REHBERG at the above address

WANTED-ELECTRON MICROSCOPIST to participate in a research project relating to heart muscle disease, Salary open, Call or write Dr. Carl S. Alexander, Veterans Administration Hos-pital, Minneapolis, Minn. 55417. Area Code 612, Phone Number 712-7512, Ext. 383.

B.S. Histochemist. Diagnostic and research histo-chemistry. Light and electron microscopy. Pro-gressive hospital, 1500-bed capacity, with new laboratories and school of Medical Technology, located in medical center complex. Experience preferred but not required. Relocation expenses provided. Reply to Personnel Director, Baptist Memorial Hospital, Memphis, Tennessee 38103.

Limnologist Ph.D. or experienced M.S. to head newly formed section of aquatic biology and re-lated water quality parameters in state water pollution control program. Opportunity for tech-nical and supervision development with excellent salary and fringe benefits. Send résumé and salary requirements to: Dr. R. L. Morris, State Hygienic Laboratory, University of Iowa, Iowa City, Iowa 52240.

ACADEMIC PATHOLOGIST

Position involves chiefly teaching and research, with limited service responsibility. Opportunities for independent or collaborative investigation. Rank according to qualifications. Attractive sal-ary and fringe benefits. Contact Doctor Joseph A. Sisson, Chairman, Department of Pathology, Creighton University School of Medicine, 2500 California Street, Omaha, Nebraska 68131.

POSITIONS OPEN

EXPERIENCED MARINE SCIENTISTS ARE NEEDED Leading coastal and estuarine oceanographic research institution seeks capable marine scien-tists with several years experience in ichthyology or marine fisheries biology, physical, chemical or physical oceanography, marine microbiology, ma-rine pollution biology or environmental health work and marine ecology to fill newly established positions. Needed are established doctoral-level scientists qualified to assume responsibility for operating research and graduate teaching depart-ments. Strong local support assures continuation of active research and teaching programs. If interested, please reply with appropriate re-sumes to Box 245, SCIENCE.

MARINE SCIENTISTS

Active center for research and education in Marine Science seeks scientists qualified at doctoral and magisterial levels to fill newly created research and graduate teaching positions. Areas of special interest are marsh ecology, shellfish biology, marine microbiology, produc-tivity of coastal and estuarine waters, marine parasitology, pollution biology, sanitary en-gineering and coastal engineering. Location, mid-Atlantic state near large centers of population. Salaries and fringe benefits com-petitive. Address letters and résumés to: Box 229, SCIENCE Address letters and résumés to: Box 229, SCIENCE.

SUPERVISOR NEUROPHARMACOLOGY SCREENING

M.S. degree in pharmacology. Prefer some supervisory experience. Duties involve liaison work between senior biologists and laboratory technicians. Will also assist in development of neuropharmacological screening techniques. Send complete résumé to D. L. Cook, Ph.D., Division of Biological Research, G. D. Searle & Co., P.O. Box 5110, Chicago, Illinois, 60680.

A position as a **Radiobiologist** for the Division of Radiation Therapy is open at John Sealy Hospital, University of Texas Medical Branch, Galveston, Texas. This division is brand new with a fairly well-equipped radiobiology labora-tory. This position will require a Ph.D. in **Bio**-physics or in Physical Chemistry. Work will be centered around radiobiology research and teach-ing on our campus. The position will hold aca-demic rank and full-time faculty membership. Approximately two-thirds of the work will be research and one-third will be teaching. The work will be mainly experimental in connection therapy. Salary will be \$15,000-20,000 per year, depending upon experience.

SENIOR EDITOR-SCIENCE

SERVICE EDITOR—SCIENCE We are seeking a top flight editor with teaching, administrative, and editorial experience to work with editors and authors developing new science programs for elementary and sec-ondary schools. Job requires advanced training in one or more sciences. Please forward resume and salary requirement to Miss Joan Downey, Personnel Mgr., Encyclopaedia Britannica Edu-cational Corporation, 425 N. Michigan, Chicago, Illinois 60611.

SCIENCE WRITER: Is anyone in your family thinking of college? Why suffer the slings and arrows of outrageous tuition? Join our staff, where a 75 percent tuition reduction is one of many fringe benefits. More importantly, major state university in Northeast offers outstanding opportunity for ex-perienced science writer. Unusual operational freedom, wide-ranging research program to cover. Good salary. Primary audience: science writers and editors rather than local publications. No routine writing or promotional assignments. Write Box 268, SCIENCE, giving résumé, salary requirements. An Eaual Opportunity Employer

An Equal Opportunity Employer

SUTURE RESEARCH Expanding program requires an additional senior scientist to supervise developmental research in suture processing, sterilization and packaging, and to plan and implement research programs leading to new surgical products. Candidates should have a doctorate (or equivalent training and experience) in phar-maceutical or protein chemistry or an ap-propriate biological field with knowledge or experience in microbiology and sterilization techniques. techniques. This position offers good potential for future growth in a well-established area of the corporation. Excellent salary commensurate with training and experience and complete company-paid benefits. Please send your resume in confidence to Dr. R. W. Kinney, Director of Scientific Employment techniques. Employment **SMITH KLINE & FRENCH** <u>Sk</u> LABORATORIES 1582 Spring Garden Street Philadelphia, Pa., 19101 An Equal Opportunity Employer Member of Plans for Progress

POSITIONS OPEN

Interdisciplinary Postdoctoral Research Training for Ph.D.'s and M.D.'s. A program in the bio-logical and behavioral sciences with a focus on mental health. Current openings in the fields of: behavioral physiology, biochemical pharmacology, communication sciences, neurochemistry, neuro-linguistics and neurophysiology. Stipends: \$6000 first year, \$7000 second year for Ph.D.'s; \$7000 first year, \$8000 second year for M.D.'s; \$500 for each dependent. for each dependent.

Write Dr. Murray Glusman, Director, Post-Doctoral Research Training Program, New York State Psychiatric Institute and Columbia Presby-terian Medical Center, 722 West 168th Street, New York, N.Y. 10032.

FELLOWSHIPS

UNIVERSITY OF LIVERPOOL FACULTY OF VETERINARY SCIENCE PIDA SENIOR FELLOWSHIP— PIG BEHAVIOUR

PIG BEHAVIOUR Applications are invited from suitably qualified graduates in Veterinary Science, Agriculture or Biological Science for a Pig Industry, Develop-men Authority Senior Fellowship tenable in the Sub-Department of Animal Husbandry at the University of Liverpool's Veterinary Field Station. The successful candidate will participate in a research programme on the social be-haviour of pigs and will be expected to take up the post on 1st October 1968. The fellowship has a value of £1400 \times £75 to £1550 per annum (plus F.S.S.U.), and is tenable for up to three years. Applications, stating age, qualifications and experience, together with the names of three referees, should be received, within 14 days of the appearance of this advertisement, by the Registrar, The University, P.O. Box 147, Liver-pool 3, from whom further particulars may be obtained. Please quote Ref:RV/542/S

The Market Place BOOKS . SERVICES . SUPPLIES . EQUIPMENT



Send for contest rules and free Brochure on publishing your book. PAGEANT PRESS, INC. Dept. SX 101 Fifth Ave., New York, N. Y. 10003

SPRAGUE-DAWLEY, INC. Pioneers in the development of the STANDARD LABORATORY RAT. P.O. Box 4220 Madison, Wisconsin CE 3-5318

SCIENCE, VOL. 161