**S. S. Penner**, on leave from the California Institute of Technology to serve as director of the research and engineering support division at the Institute for Defense Analyses, Washington, has become professor and chairman of the aerospace engineering department of the University of California, La Jolla.

Alfred P. Sloan awards for cancer research have been presented to four scientists at the Memorial Sloan-Kettering Cancer Center. The recipients will work for a year at a cancer research institute of their choice, in the U.S. or abroad; they will receive their full salary, plus \$10,000, and funds for travel and expenses. This year's winners are:

Aaron Bendich, for "contributions to biochemical research."

Leopold G. Koss, for work in "clinical cancer research and prevention."

Walter Lawrence, Jr., for research leading "to the improved treatment of cancer patients."

**Frederick S. Philips**, for his "contributions to the field of experimental cancer chemotherapy."

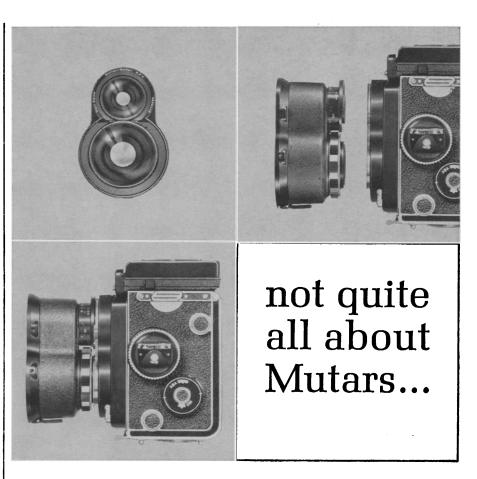
Dea Bailey Calvin, professor of biochemistry and director of research grants and contracts at the University of Texas Medical Branch, Galveston, has been named to the recently created post of assistant dean for research at the University of Miami medical school.

**Sheldon K. Friedlander**, formerly professor of chemical engineering at Johns Hopkins University, has been appointed a professor in chemical engineering and environmental health engineering at California Institute of Technology.

**Robert Schwyzer**, visiting professor of biochemistry at the University of Washington, Seattle, has been awarded the Otto Naegeli prize for 1964, for his research on the chemical synthesis of peptide hormones.

Joseph R. Feldmeier, formerly director of the Philco Corporation's scientific laboratory, Blue Bell, Pa., has been named director of the Franklin Institute Laboratories for research and development, Philadelphia.

Dean S. Tarbell, Houghton professor of chemistry at the University of Rochester, has been named chairman of the department, effective in September.



**Rollei Rollei A** complete description of the new Rollei-Mutar quick change lenses would be in very small type in a space this size. But we have available a very interesting article about the two new Mutars written by Dr. Hans Sauer of Carl Zeiss. Rollei owners and those considering the purchase of a 2¼" x 2¼" camera will find it an absorbing and comprehensive treatment.

Dr. Sauer describes the history of accessory lens systems. He tells how Rollei-Mutars instantly change the focal length of the basic Rollei by .7x (wide-angle) or 1.5x (telephoto) as quickly as you would change a filter. And he tells how this is done without sacrificing any of the great features of the Rollei. He notes, for instance, that unlike other systems, the Mutars do not require smaller apertures for satisfactory image definition, but provide highest resolution at apertures f/5.6 through f/22.

Try both Rollei-Mutars at your Rollei Honeywell dealer's! Check them both on your camera. No camera? Your Rollei Honeywell dealer can correct that very quickly. Meanwhile, drop a line to Jerry Poole for your own copy of Dr. Sauer's article. Address: Honeywell (209), Denver, Colorado 80217.





10 APRIL 1964



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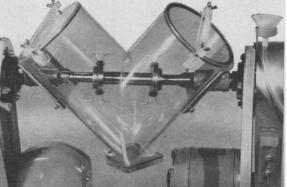
If you have any liquid-solids or solidsolid blending requirements, consider the P-K Liquid-Solids Blender. It's a fast, efficient and extremely versatile laboratory tool. With it, you'll find most blending operations can be accomplished in 1 to 5 minutes, achieving a uniformity not attainable with other types of mixing equipment.

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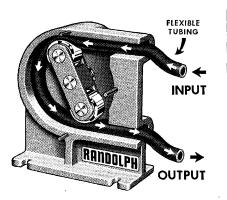


blends, uniformly, liquids of any viscosity with dry solids. (Blends from  $\frac{1}{2}\%$ liquids by weight to whatever percentage solids can absorb and still remain a solid.) Liquid is introduced into hollow shaft of revolving bar by gravity or pump. Then, flung outward from dispersion discs into the tumbling mass of dry materials.

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<ul> <li>Millipore Filter Corp.</li> <li>Nalge Co., Inc.</li> <li>New Brunswick Scientific Co., In</li> <li>New England Nuclear Corp.</li> <li>Nutritional Biochemicals Corp.</li> <li>Ohaus Scale Corp.</li> <li>Packard Instrument Co., Inc.</li> <li>Patterson-Kelley</li> <li>Phipps &amp; Bird, Inc.</li> <li>Photovolt Corp.</li> <li>Polaroid Corp.</li> <li>Professional Tape Co., Inc.</li> <li>Radiation Instrument Developmed</li> <li>Laboratory, Div. of Nuclear</li> <li>Chicago Corp.</li> <li>Randolph Co.</li> <li>RePP Industries, Inc.</li> <li>Sage Instruments, Inc.</li> <li>Scientific Industries Inc.</li> <li>Scientific Industries Inc.</li> <li>Standard Scientific Supply Corp.</li> <li>Statham Instruments, Inc.</li> <li>Technicon Chromatography Corp.</li> <li>Technicon Chromatography Corp.</li> <li>Thermolyne Corp.<td>140, 140, 140, 140, 111, 111, 111, 111,</td><td>134 2000 224 102 226 112 216 208 216 204 107 137 220 119 228 106 5212 113 206 5212 113 206 5212 113 206 5212 113 206 216 218 120 208 218 200 218 218 200 218 218 216 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 208 218 218 208 218 218 208 218 218 208 218 218 218 218 208 218 218 218 218 218 208 218 218 218 218 218 218 218 218 218 21</td></li></ul>	140, 140, 140, 140, 111, 111, 111, 111,	134 2000 224 102 226 112 216 208 216 204 107 137 220 119 228 106 5212 113 206 5212 113 206 5212 113 206 5212 113 206 216 218 120 208 218 200 218 218 200 218 218 216 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 218 208 218 208 218 218 208 218 218 208 218 218 208 218 218 218 218 208 218 218 218 218 218 208 218 218 218 218 218 218 218 218 218 21
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# PERSONNEL PLACEMENT

Replies to blind ads should be addressed as follows:

Box (give number) SCIENCE

1515 Massachusetts Ave., NW Washington, D.C. 20005

# POSITIONS WANTED

**Bacteriology**, Bachelor of Science degree; ex-perience in medical bacteriology and pharma-ceutical research; relocation desired. Box 353, SCIENCE. 4/3, 10

**Experimental Psychologist** anticipating Ph.D. June 1964; 5 years of industrial experience; seeks research position in form perception or color perception; Northeast. Box 381, SCIENCE. X

Nutritionist-Biochemist-Physiologist, Ph.D. Seeks academic position with research, teaching, ad-ministrative responsibilities. Colorado area; 12 years of university experience. Woman. Box 379, SCIENCE X SCIENCE.

Physiologist, Ph.D., 14 years experience in med-ical school. Teaching/research in neurophysi-ology. Seek academic administrative post. Box 380, SCIENCE. X

Ph.D. Clinical Chemist seeking medical school-university hospital appointment. East. Box 382, SCIENCE. X

(a) Ph.D. Microbiology (biochemistry minor), ex-perienced in and prefers geomicrobiology research. (b) Ph.D. Zoology (comparative physiology), strong biochemistry training; teaching, research experience; desires teaching, research on biology teaching administration in West Coast location near marine animals. (c) Ph.D. Bacteriology, re-search and clinical experience; prefers hospital Bacteriology Chief position with opportunity for research. (Please write for information regarding these and other scientists, senior and junior, in all fields). Science Division, The Medical Bureau, Inc., Burneice Larson, Chairman, North Michigan Avenue, Chicago 11, Illinois.

**Ph.D. Zoologist**, anatomist, electron microscopist. Experienced; publications. Desires academic po-sition with good opportunities for basic research and teaching. Box 384, SCIENCE. 4/17

Technical Communication Generalist--Reporter; Technical Communication Generalist—Reporter; Editor; Scenarist for motion-picture and video-tape presentations; Coordinator for lecture dem-onstrations; Coordinator for lecture demonstra-tions; familiar with information-retrieval tech-niques. Seeks position to plan reporting programs from proposal through development. Box 386, SCIENCE. X

Translator, free lance. Slavic languages into Eng-lish. Broad experience, background and reference resources. Box 383, SCIENCE. 4/17, 24

POSITIONS OPEN

Full-time Researchers in the fields of internal medicine, biochemistry and physiology desired for research-teaching proin continuing education. Salary \$25,000 to \$30,000 per annum.

**Box 367, SCIENCE** 

#### HISTOCHEMIST EXPERIMENTAL MORPHOLOGIST

Ph.D. or equivalent. Active research program in enzyme and electron histochemistry. Hospital-affiliated re-search institute. New York. Box 276, SCIENCE

ORGANIC CHEMIST for current program in-volving the synthesis of carbon-14 and tritium labeled steroids. Future growth anticipated in synthesis of vitamins, alkaloids and other natural products. Must be well versed in chromatographic techniques and capable of independent literature searches. M.S. in Organic Chemistry and/or equivalent experience in steroid chemistry is de-sirable. Send résumé and salary requirements to: Alan Aronson, Personnel Manager, New England Nuclear Corporation, 575 Albany Street, Boston 18, Massachusetts.

10 APRIL 1964

#### POSITIONS OPEN

Biochemist—Regular staff position as Assistant Professor of Biochemistry at University of Illi-nois College of Medicine. Applicants should have a superior record, an interest in and capacity for teaching at the undergraduate and graduate levels, at least 2 years of postdoctoral work, and clear evidence for a capacity to undertake an independent research program. Salary range from \$9,000 for 11 months appointment. Submit com-plete curriculum vitae, bibliography and refer-ences. Write R. J. Winzler, Head, Department of Biological Chemistry, University of Illinois, College of Medicine, 1853 W. Polk Street, Chi-cago 12, Illinois.

Predoctoral Assistantships and Traineeships in Physiology. Excellent opportunities for graduate students leading to the Ph.D. Ample stipends and free tuition. Training and research in biophysics, cellular physiology, endocrinology, muscle, water metabolism, cardiovascular, gastrointestinal and environmental physiology. Write for details to Head, Department of Physiology, University of Illinois at the Medical Center, Chicago, Illinois.

#### **GENETICIST**

#### WORLD HEALTH ORGANIZATION

The World Health Organization, Geneva, re-quires a Geneticist to assist in the guidance and development of the Organization's programme in human genetics, and in the initiation, planning, international coordination and assessment of re-search in this field. The incumbent will be called upon to provide guidance and technical advice to Member States of WHO in the field of human genetics, particularly with reference to training, research, and applications of this subject in rela-tion to health, to prepare scientific meetings, training courses, etc., and to maintain liaison with other organizations having interests in these fields.

A doctorate in medicine or science is required, with thorough research experience in human ge-netics. Experience in research in population ge-netics would be particularly useful. The incumbent must have a thorough knowledge of the present status and trends of research in human genetics, and of the importance of this subject to further progress in the understanding of health and progress disease.

The salary is at the rate of US \$10,650 per annum, after deduction of income tax, rising by annual increments to US \$13,000. Allowances ac-cording to Staff Rules: post adjustment, depend-ents', assignment, education grant for children. Sickness and accident insurance. Home and annual leave. Repatriation grant. Pension Fund scheme. Initial contract for two years.

Applications should be sent to the World Health Organization, Geneva, marked VN/876, within one month of the date of issue of this advertise-ment, and should provide full details of educa-tion, experience, research work, publications, etc.

Only those candidates whose qualifications and experience are evaluated as suitable for considera-tion in filling the needs of the Organization will receive an acknowledgment.

COURSES

#### POSITIONS OPEN

(a) Clinical Biochemist, Ph.D. expanding lab in modern 300-bd hsp; some resrch-tchg duties; \$14-\$15,000, fringe benefits; E. (b) Product De-velopment Director, Ph.D. pharm chem w/pharm dosage form exper and supervising abil; to \$15,000 SW. (c) Microbiologist; Ph.D. w/genetic-viral technique trng for cytogenetic project at med schl; E. (d) Clinical Investigator; studies of new or improvd diagnostic products for Ige drug mfr; sal open; reqs Ph.D., any med science; E. (e) Clinical Biochemist, Ph.D., suy sectn, tchg conduct own resrch; 500-bd hsp; \$12-\$14,000; E. (f) Microbiologist; dir sectn in new 400-bd hsp openg soon; finest facils; to \$9000; suburban twn, MW. (g) Chemistry/Biology B.S./M.S.; immuno-hematology exper for resrch studies w/ige drug firm; to \$10,500; E. For details write Woodward Medical Personnel Bureau, Science Dept. 185 N. Wabash, Chicago, Ill. 60601. X

**SENIOR BIOCHEMIST**—Excellent opportunity for man with M.S. or Ph.D. in biochemistry and experience in diagnostic biochemistry, to direct, supervise, and instruct subordinates and students in hospital clinical laboratories. Ample opportu-nity for individual and cooperative research. Sal-ary commensurate with experience.

Write to: Personnel Director, St. Joseph Mercy Hospital, Ann Arbor, Michigan 48104

#### HAILE SELLASSIE I UNIVERSITY Addis Ababa, Ethiopia

The Faculty of Medicine requires staff early in September 1964 for the School of Pharmacy in the Departments of:

**Pharmaceutics** Pharmaceutical Chemistry Pharmacognosy

There are opportunities for research, especially in natural products. Teaching is in English.

Salary between U.S. \$4,800-U.S. \$8,100 depending on qualifications and rank as Assistant, Associate or full Professor. Salary is free of income tax, and there is a housing allowance. Travel expenses for appointee and dependents and luggage allowance paid. Con-tract for 3 years with 2 year extensions.

COURSES .....

Apply:

Academic Secretary Medical Faculty, P. O. Box 1176, Addis Ababa, Ethiopia

**INTRODUCTION TO GENERAL PATHOLOGY** 

for graduate students and investigators who do not have a medical background

# June 22-July 11, 1964 HARVARD MEDICAL SCHOOL, Boston, Mass.

The course will be geared to graduate students and Ph.D.'s. It is intended to present the most important areas of General Pathology to investigators in the biological field who do not have a medical background, and wish to become acquainted with the basic mechanisms of disease at the level of cells and tissues.

Experimental methods will be emphasized. The course will consist of lectures, laboratories, and demonstrations. The following areas will be covered:

DISEASE AT THE LEVEL OF CELLS - INFLAMMATION -CIRCULATORY DISTURBANCES - TUMORS - INFECTION -ALLERGY

No Tuition. A limited number of fellowships will be available. Information: Dr. G. Majno, Department of Pathology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115

BIU-ASTRONAUTICS **Senior Analysts** 

Unusual opportunities for men with experience in biomedical aspects of Space Associated Sci-ences. M.D. or Ph.D. equiva-lent. Training and background in Bioastronautics, Environmental Medicine, Bio-engineering, or related specialities. Primary interest in evaluating data, with opportunity for study and part-time research. Liberal fringe benefits. Must be U.S. citizen, willing to relocate in Washing-ton, D.C. Salary open.

Applicant confidence respected. Send resume to:

Box 378, SCIENCE

#### UNIVERSITY of GUYANA

#### ACADEMIC STAFF FOR 1964-65

Applications are invited from persons with appropriate qualifications and/or experience for the following Academic Staff posts in the University of Guyana for the academic year 1964-65:

#### FACULTY OF SCIENCE:

Biology: 2 Associate or Assistant Professors and 2 Instructors. Chemistry: 1 Professor, 2 Associate or Assistant Professors (preferably Physical or Inorganic specialists with interest in geochemistry). Mathematics: 1 Assistant Professor and 2 Instructors. Physics: 2 Associate or Assistant Professors and 2 Instructors.

Persons selected for appointment will be provided with passages to British Guiana for themselves and their families up to a maximum of four full fares; and with furnished accommodation at nominal rental.

The salary scales in British West Indian dolars (\$4.8 = £1 sterling), are as follows:

\$9600 x 240 - \$11,520 per annum Professors Assoc. Prof. \$8400 x 240 - \$10,320 per annum Ass't Prof. \$6480 x 240 - \$ 9,360 per annum Instructors \$5760 x 240 - \$ 7,200 per annum

Further details of conditions of service may be obtained by writing to the Secretary to the University, P.O. Box 841, Georgetown, British Guiana. Each application, which should include a full curriculum vitae, must reach him not later than April 15, 1964.

E. A. Gilbert, Secretary

## POSITIONS OPEN

Clinician-Pharmacologist M.D. or Ph.D. pharmacologist to assist in drug evaluation program. Responsibilities include com-bining knowledge of pharmacology, clinical med-icine, and scientific research data on drugs and drug therapy. Prepare reports for publica-tion, establish and maintain liaison with consult-ants and other avenues of information. Attend important medical and scientific meetings in order to keep abreast of new developments. Should have an interest in drug evaluation and medical writing. Salary \$14,000 plus, depending on qualifications. Please send résumé to D. W. Grant, Personnel Manager. Manager.

# American Medical Association 535 North Dearborn Street Chicago, Illinois 60610

Chicago, Illinois 60610 CLINICAL RESEARCH FELLOWSHIPS: 1) Cancer: chemotherapy, endocrinology, radiother-apy, or 2) Metabolic aspects of cardiovascular disease: emphasis on studies of endocrine-nutri-tional-lipid interrelationships. Fellowships include study and care of patients in a research hospital, laboratory and clinical research project opportuni-ties, participation in University of Oklahoma Medical Center teaching activities. Basic stipend: \$5500-\$7500 yearly, with allowance for dependents. Available July 1, 1964. Write: Executive Director, Oklahoma Medical Research Foundation, 825 NE 13th St., Oklahoma City, Okla., 73104

**POSITION OPEN, TUSKEGEE INSTITUTE** Applications are invited for academic positions in physiology and pharmacology. Appointee will devote approximately half-time to teaching and half-time to pursuing own research interests; D. V.M. or Ph.D. preferred with some teaching and/ or research experience. Address all correspondence to: Dean, School of Veterinary Medicine, Tuske-gee Institute, Alabama. gee Institute, Alabama.

(a) Ph.D. Pharmacologist (industrial toxicologist) for major manufacturing company; North Cen-tral; open. (b) Ph.D. Clinical Biochemist; 325-bed northeastern hospital; to \$15,000. (c) Bio-chemistry Research; Ph.D. or predoctoral in bio-chemistry Research; East; \$8000. (d) Production Manager; chemistry/engineering de-gree plus pharmaceutical experience; Midwest. (e) Research Assistant; histology/histochemistry; university-affiliated research; Midwest. (f) Bacteri-ology Technician; B.S. degree plus experience; Central hospital. Faculty Appointments: (g) Bi-ology, Physiology background; castern college; (h) Ph.D. Biological Science; research oriented; small eastern liberal arts college. (i) Biologist, small eastern liberal arts college. (ii) Biologist, university. (j) Astronomist, Ph.D./M.S., familiar with public school science education; small state college; East. (k) Biochemist, physiology training; undergraduate, graduate teaching; research; large eastern state university. (j) Biologist, teach hu-man anatomy, physiology; small northeastern lib-eral arts college. Many other opportunities avail-able for both junior and senior scientists. Please write to Science Division, The Medical Bureau, fuc, Burneice Larson, Chairman, 900 North Michigan Avenue, Chicago 11, Illinois. X

HAILE SELLASSIE I UNIVERSITY, ADDIS ABABA, ETHIOPIA FACULTY OF SCIENCE

Applications are invited from suitable qualified persons for the following posts:

Department of Physics: One Associate Professor. Two Assistant Professors.

Department of Mathematics: One Associate Pro-fessor. Two Assistant Professors.

Department of Chemistry: One Associate Profes-or, (Physical Chemistry). sor.

Department of Biology: 1. Assistant or Associate Professor of Zoology, with emphasis on Zoolophys-iology or Embryology and Comparative Anatomy. 2. Assistant Professor with special responsibility for introductory courses. (Zoology and Botany). Salary Scales:

Associate Professor Eth. \$15,000-Eth. \$18,000 p.a. Assistant Professor Eth. \$12,000-Eth. \$15,000 p.a.

The Ethiopian dollar is equivalent to US \$0.40 or 2/10d. The salaries are net, and in addition, a housing allowance is provided.

Contracts are for two or three years.

Passages and an allowance for moving expenses e paid on appointment and on normal termina

For further details and application forms apply to:

The Dean of Science, University College, Haile Sellassie | University, P.O. Box 399. ADDIS ABABA, ETHIOPIA

#### FELLOWSHIPS

James W. McLaughlin Predoctoral and Postdoctoral Fellowships, awarded in the broadly interpreted area of infection and immunity, may be granted for study in any department at the University of Texas Medical Branch. Stipends: Pre-doctoral \$3600 plus allowance for de-pendents; Postdoctoral starting at \$7500. Additional funds for equipment, supplies, and travel. Renewable. For information write Chairman,

McLaughlin Committee The University of Texas Medical Branch Galveston, Texas



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