

on which there may be heavy pressures from lobbyists or constituents. The knowledge that reform can cut more than one way may be one reason that proposals to effect basic changes in the Rules Committee's own rules of operation were not pressed during the fight last week on the size of the committee.

Chances for root and branch reform of Congress, however, seem better this year than for a long time. The intramural squabble between Senate and House appropriations committees last year and misgivings about the ability of Congress to deal with the problems of the Cold War and space age with its present machinery, staffing, and folkways have created a disposition to consider reform.

The likeliest route to reform is along the path followed by the LaFollette-Monroney Committee in 1946 when reform legislation followed a study by a committee made up of Senators and Representatives. Sen. Clark and Reps. Reuss and Lindsay have taken the initiative in rallying bipartisan support for such a committee and Sen. Case has put forward a similar, but somewhat more detailed, proposal.

The Legislative Reorganization Act of 1946 resulted primarily in a streamlining of committees but did not touch the bedrock of the committee system, and the reformers now face the same hard fact that the power of change in Congress is largely in the hands of those whose status depends on the status quo.—JOHN WALSH

Announcements

The National Institutes of Health this month opened a Tokyo branch of its Office of International Research. This will be the Pacific office. The unit is headed by Heinz Specht, formerly in the physical biology laboratory, National Institute of Arthritis and Metabolic Diseases.

Correspondence for the Pacific branch should be addressed to the American Embassy, APO 94, San Francisco, Calif.

The Thomas Alva Edison Foundation has presented its 1962 awards for children's books. The recipients included:

Heinz Haber's *Stars, Men, and Atoms* (Golden Press, 1962; 188 pp., illus., \$3.99), acclaimed as the "best children's science book," covers early conceptions of the earth to modern theories of an expanding universe.

Knowledge and Wonder, by Victor Weisskopf (Doubleday, 1962; 222 pp., illus. \$4.95), received the award of "best science book for youth," for its presentation of the "essence of all that man has discovered about himself and his environment."

The Edison Foundation awards are presented annually "for the highest achievements" in children's books, films, television, and radio.

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COMPARE TRANSAC WITH THE KARMEN (ULTRAVIOLET) GOT METHOD:

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TransAc reagents are stable. Enzyme reagents used in the ultraviolet² method (DPNH and malic dehydrogenase) vary in potency,⁵ are subject to spontaneous development of potent inhibitors (in DPNH)⁶ and contamination with transaminase (in MDH).⁷

TransAc uses any standard colorimeter or spectrophotometer. The Karmen method requires a specialized instrument reading in the ultraviolet range.²

The TransAc procedure is less complicated than the older methods, and less subject to error: Incubate serum with substrate in water bath for 20 minutes; add color reagent, incubate 10 more minutes; dilute and read against a water blank.

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1. Babson, A. L.; Shapiro, P. O.; Williams, P. A. R., and Phillips, G. E.: Clin. Chim. Acta 7:199, 1962. 2. Karmen, A.: J. Clin. Invest. 34:131, 1955. 3. Reitman, S., and Frankel, S.: Am. J. Clin. Path. 28:56, 1957. 4. Schneider, A. J., and Willis, M. J.: Clin. Chem. 8:343, 1962. 5. Bonting, S. L.: J. Clin. Invest. 39:1381, 1960. 6. Fawcett, C. P.; Ciotti, M. M., and Kaplan, N. O.: Biochim. et Biophys. Acta 54:210, 1961. 7. Zimmerman, H. J.; Silverberg, I. J., and West, M.: Clin. Chem. 6:216, 1960. 8. Amador, E., and Wacker, W. E. C.: Clin. Chem. 8:343, 1962.

Grants, Fellowships, and Awards

The Daniel and Florence Guggenheim Foundation has made available 14 graduate fellowships for study in **jet propulsion and flight structures development**. Candidates must be residents of the U.S. or Canada, and intend to make a career in astronautics, flight structures, or related scientific disciplines. Tuition and up to \$2400 stipends are provided.

Participating in the program are Princeton University, California Institute of Technology (for jet propulsion fellowships), and Columbia University (for flight structures). Deadline for filing credentials: *1 March*. (Dean of Graduate Studies of each institution)

The University of Miami Marine Laboratory has a continuing fellowship program for postdoctoral work with **marine organisms**. The 1-year fellowships are available to those trained

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in the other biological disciplines. Stipends are about \$5,000, plus dependency allowances. (Charles E. Lane, Program Director, NIH Post-Doctoral Fellowships, University of Miami, Miami 49, Fla.)

Contract research proposals in **fundamental hydromechanics** of importance to the Navy are being solicited by the David Taylor Model Basin. Of particular interest are studies in fluid mechanics, naval architecture, and underwater acoustics. Deadline for receipt of proposals (in quadruplicate): *15 March*. (Commanding Officer and Director, David Taylor Model Basin, Washington 7, D.C. Attention: Code 513)

A limited number of travel grants to the 3rd international congress of **biometeorology** (Pau, France; 2-7 Sept. 1963) are available to defray partial expenses of American scientists. Deadline for application: *1 March*. (National Science Foundation, Washington 25, D.C.)

Representatives of the nation's dairy industry have established a research grant program to investigate the relationship of **dairy products and cardiovascular disease**. Emphasis will be on the metabolic behavior of dairy products or interactions between dairy product components with regard to lipid metabolism, development of atherosclerosis, or thrombus formation in suitable experimental animals or in man. Particularly encouraged are investigations which simultaneously provide guidance for the development of nutritionally superior dairy products. Studies concerning the nutritional value of milk fat or the factors modifying the proportions of the major or minor components of dairy foods influencing dairy fat utilization also may be considered. (Merrill S. Read, Special Dairy Industry Board, 111 N. Canal St., Chicago 6, Ill.)

Courses

The Virginia Institute of **Marine Science** is conducting a summer research program, sponsored by the National Science Foundation, to assist college teachers in conducting their own research projects. The Institute also has available a limited number of opportunities for undergraduate students, to allow them to explore the possibilities

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AAAS Symposium Volume No. 52

EVOLUTION OF NERVOUS CONTROL FROM PRIMITIVE ORGANISMS TO MAN

Editor: Allan D. Bass

1959, 240 pp. \$5.75, AAAS members' prepaid orders \$5.00

From a review in the *Psychiatric Quarterly*, January 1960:

This book is another in the superb series of monographs put out by the American Association for the Advancement of Science. . . . The text is actually a very readable review of some of the major research going on in various phases of neuropsychiatry.

This book offers much more concrete and useful data than do a number of larger tomes dealing with the interdisciplinary approach to mental disease. It may be profitably read by anyone interested in the differing aspects of, or approaches to, the study of the nervous system and its activity.

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of marine science as a vocation. The programs will be held 10 June to 30 August. Deadline for applications: *15 March*. (Robert S. Bailey, Director, NSF Programs, Virginia Institute of Marine Science, Gloucester Point, Va.)

A new course on special applications of gas **chromatography** in the biomedical field is scheduled for 20–23 March, in Stratford, Conn. Analytical Engineering Laboratories, Inc., Hamden, Conn., will sponsor the course. Subjects to be covered include gas chromatographic analysis of fatty acids, steroids, urinary steroids, and alkaloids. Advance registration is required. Deadline: *1 March*. (Philip D. Hercz, Analytical Engineering Laboratories, Inc., P.O. Box 5215, Hamden 18, Conn.)

The American Mathematical Society's 3rd summer seminar on **space mathematics** will be held from 1 July to 9 August in Ithaca, N.Y. The seminar, a joint undertaking with Yale University Observatory's summer institute in dynamical astronomy, will include 2 weeks of basic training in practical astronomy, the classical theory of elliptic orbits, methods of orbit determination, and mathematical techniques useful in such areas. Participants who have previous training in astronomy or mathematics may forego the basic courses. Tuition for participants from industry is \$100 per week; persons from academic institutions and government agencies may apply for waiver of tuition. A limited amount of financial aid will be available from funds supplied by the society. Deadline: *15 February*. (J. Barkley Rosser, White Hall, Cornell University, Ithaca, N.Y.)

Massachusetts Institute of Technology is offering two short summer courses on **infrared spectroscopy**. Techniques of infrared spectroscopy, 17–21 June, will consist of 30 hours of lecture and laboratory work, designed to give both theoretical and practical knowledge of the fundamental optics of infrared spectrometers. The course will include factors determining design, performance, qualitative and quantitative analysis, and techniques for sample preparation.

Applications of infrared spectroscopy, 24–28 June, will be devoted to lectures and supervised group practice on interpretation of spectra, group frequencies, and integration of intensities and applications to the solution

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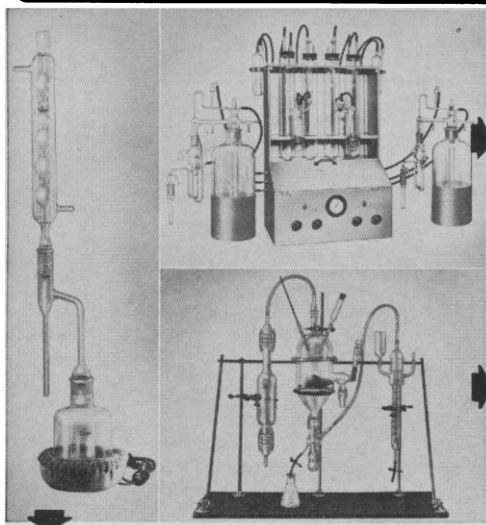
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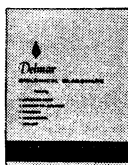
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rectly to inner compartment. On completion of the process, fat has collected in the graduated receiver, solvent is in the inner flask cell and moisture has been dissipated or collected. Price complete . . . only \$75.00 each. For full details, ask for Fat Extractor Bulletin

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of chemical research problems. (J. M. Austin, Director, Summer Session, Room 7-103, M.I.T., Cambridge 39, Mass.)

Behavioral scientists are invited to apply for participation in a research training institute in the **simulation of cognitive processes**. The institute is scheduled for 17 June–26 July, in Santa Monica, Calif., and is sponsored by the Social Science Research Council and the RAND Corporation. It will cover recent developments in constructing computer programs that serve as models of complex human processes, as well as provide instruction in constructing techniques for such programs. The course is designed primarily for post-doctoral behavioral scientists who are affiliated with universities, although advanced doctoral candidates will also be considered. Deadline for completed applications: *15 March*. (B. F. Green Jr., Department of Psychology, Carnegie Institute of Technology, Pittsburgh 13, Pa.)

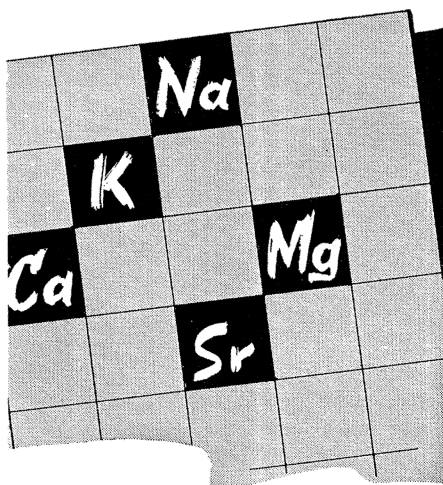
Specialized training programs in **steroid biochemistry** have been established at Clark University, Worcester, Mass., and the University of Utah, Salt Lake City; classes will begin 1 October. Sponsored by the National Cancer Institute, the programs include lectures, planned laboratory work, and research in theoretical and methodological aspects of the biochemistry of steroids and related compounds.

Postdoctoral work at both institutions will carry a \$5500, 1-year stipend; predoctoral workers, at Clark only, will receive a 6-month stipend of \$1800. Deadline for receipt of applications: *1 April*. (Kristen Eik-Nes, Department of Biochemistry, College of Medicine, University of Utah, Salt Lake City; or William R. Nes, Department of Chemistry, Clark University, Worcester, Mass.)

Publications

A new report shows that for more than 110,000 U.S. scientists the 1962 median salary was \$10,000. This indicates a \$1000 rise since 1960. These and other data on U.S. scientists are presented in **Scientific Manpower Bulletin No. 19**, a preliminary report released last month by the National Science Foundation, based on information compiled through July 1962. The 10-page publication also reports that the

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youngest employed scientists were in the mathematics and physics fields (median age, 36), while the oldest were biological scientists (median age, 41). The most frequently reported work was research, development, or design, claimed by 35 percent of those reporting. Teaching claimed 17 percent of the scientists, and 15 percent were in the employ of the federal government. (Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. 15¢. NSF 62-47)

Approximately 2300 references on chimpanzee research are contained in the new **Chimpanzee Bibliography**, published by the Aeromedical Research Laboratory at Holloman Air Force Base, New Mexico. The entries are divided into the major areas of anatomy, physiology, pathology, and psychobiology. English translations are made on all foreign language entries. (Frederick H. Rohles, Jr., Chief, Comparative Psychology Branch, 6571st Aeromedical Research Laboratory, Holloman Air Force Base, New Mexico)

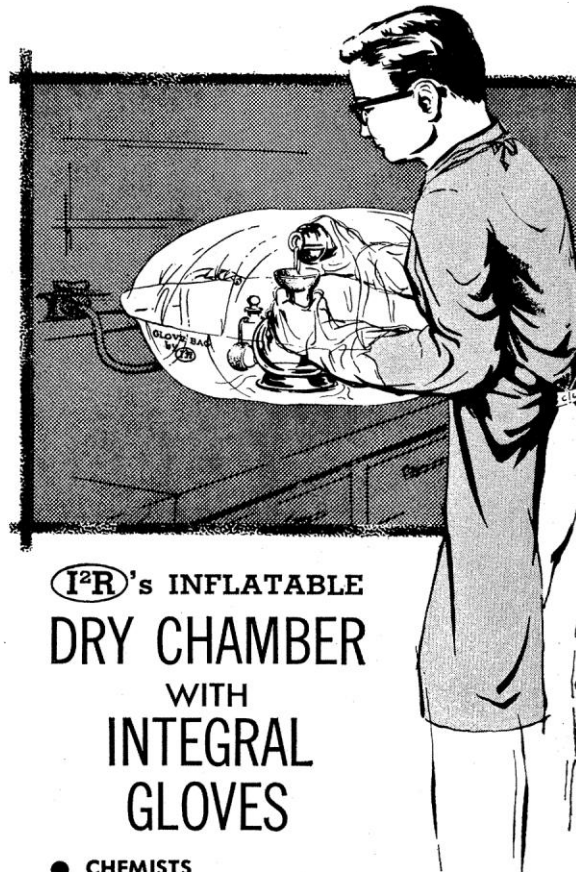
The U.S. Atomic Energy Commission has published a bibliography of the world's literature on **radioactive fall-out**. The book includes more than 1500 references to unclassified reports, journal articles, and other literature on radioactive materials produced by nuclear explosions. The references cover the period from October 1960 to February 1962, and include subject, author, and availability indexes, as well as a list of the Commission's depository libraries. (TID-3086 (Suppl. 1), Office of Technical Services, Dept. of Commerce, Washington 25, D.C. \$3)

A summary of scientific observations made from many Hungarian observatories has been published in atlas form. **Climatic Atlas of Hungary** (*Magyarország Eghajlati Atlasza*) is an album of 130 chromatographic maps with index and explanatory texts in Hungarian and German, published by the Publishing House of the Academy of Sciences of Hungary. (Kultura, Hungarian Trading Company for Books and Newspapers, P.O. Box 149, Budapest, Hungary. \$20.70)

Engineers and architects are advised about protecting structures from nuclear fallout in a new Office of Technical Services publication, **Radiological Protective Construction**. The report presents principles of protecting both per-

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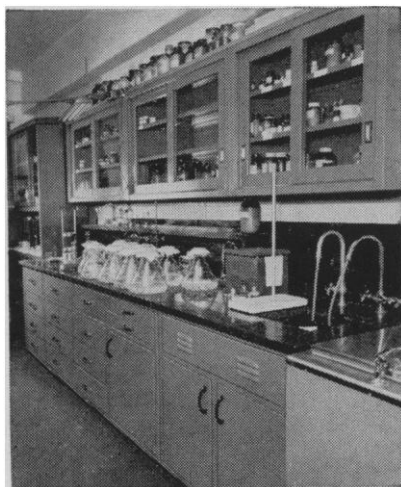
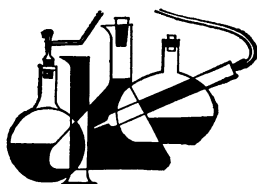
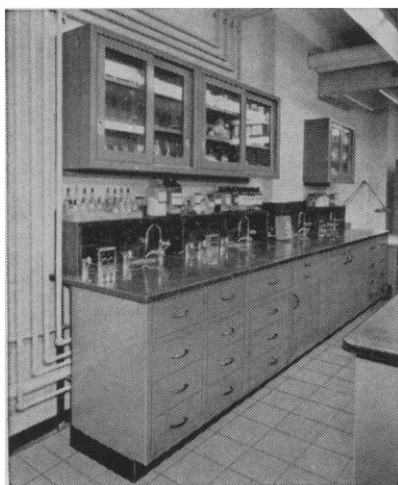
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A new bibliography of current Russian technical publications is available from the Special Libraries Association. **Guide to Russian Reference and Language Aids: SLA Bibliography No. 4** contains more than 225 annotated entries, primarily regarding post-World War II material. Titles of the works are transliterated according to the Library of Congress system.

The 96-page guide has four appendixes with information on Russian transliteration systems, retail sources for Russian publications, abbreviations of Soviet publishers, and a glossary of bibliographic terminology. (Special Libraries Association, 31 East 10 St., New York 3. \$4.25)

Scientists in the News

Henry Eyring, chemistry professor and dean of the graduate school at the University of Utah, has become president of the American Chemical Society. President-elect of the society is **Maurice H. Arveson**, research coordinator at Amoco Chemicals Corp., Chicago.

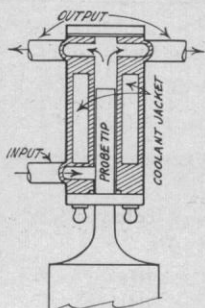
The highest decoration of the Bolivian government has been awarded to **Ismael Escobar**, director of the cosmic physics laboratory at the Universidad Mayor de San Andres, La Paz, Bolivia. The award, Officer of the Order of the Condor of the Andes, was presented "in recognition of his scientific work, and his operation of the laboratory," which is the world's highest (17,100 feet above sea level) permanent cosmic ray research station.

H. Rocke Robertson, chairman of the surgery department at McGill University, has become the school's principal.

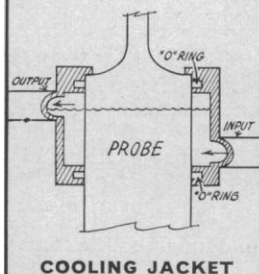
Grady B. Hall, formerly with the Lockheed Missiles and Space Company, has become Lockheed Propulsion Company's director of reliability engineering.

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W. Dean Warren, associate professor of surgery at the University of Virginia, has been appointed professor and chairman of the University of Miami's department of surgery in the school of medicine.

Bruce MacLean Eberhart, formerly of the department of biology, Princeton University, has been named head of the biology department at the Woman's College of the University of North Carolina, Greensboro.

Head of the Philco Corporation's newly formed Advanced Technology Laboratory, in Blue Bell, Pa., is **Peter M. Kelly**, formerly director of research in the company's electronic sciences department.

Donald G. Lee, anatomy professor and head of the laboratories of anatomy at the University of Pennsylvania School of Veterinary Medicine, has been appointed associate dean of the school.

Mahinder S. Uberoi, formerly professor of aeronautical and astronautical engineering at the University of Michigan, has been named chairman of the aeronautical engineering department of the University of Colorado.

Randall G. Rice, formerly with Chemical Abstracts Service, Columbus, Ohio, has become head of the materials sciences division, Armed Services Technical Information Agency.

E. Ross Hart, of the Veterans Administration Research Laboratories in Neuropsychiatry, Pittsburgh, has joined the research staff at Bionetics Research Laboratories, Inc., Falls Church, Va.

Lester C. Van Atta, former director of the Hughes Aircraft Co. research laboratories, has been named chief scientist at Lockheed Missiles and Space Co., Sunnyvale, Calif.

Alfred A. Messer, former director of the Family Mental Health Clinic, Clifton, N.J., has become professor of psychiatry (research) at Emory University, Atlanta, Ga.

Erratum: In the report "Evaluation of isotope exchange by chromatography" by J. Morávek, Z. Nejedlý, and J. Filip [*Science* **138**, 146 (1962)], the lines "where *a* is the total concentration of the compound in the reacting mixture [OS*] + [OS]" should have read: "where *a* is the total concentration of the sulfur in the reacting mixture [SS*] + [SS]".