

viet position on this issue has been aroused by recent talks between President Kennedy and Alexei Adzhubei, son-in-law of Premier Khrushchev and editor of *Izvestia*, as well as talks between Kennedy's press secretary, Pierre Salinger and the Soviet press chief, Mikhail Kharlamov. These discussions, which are outside of the present exchange negotiations, have produced no tangible results, nor have they been reflected in any change in the Soviet bargaining position.

In trying to change that position, the principal leverage available to this country is what seems to be the chief Soviet interest in the exchange program: American science and technology. From the start of the program, the Russians have displayed an eagerness to work out agreements that will take their specialists to American laboratories, industrial plants, and farms.

The State Department, which runs the exchange program, frequently finds itself under attack for what is regarded as extreme pettiness in dealing with Soviet requests to visit various establishments in this country. It does not deny that it occasionally puts up what seem to be nonsensical barriers for Soviet visitors (such as refusing to permit a Soviet medical delegation to visit a new hospital in the Washington area) but under the tit-for-tat rules that regulate the exchange game, such pettiness is regarded as the only device for putting pressure on the Soviets to open doors for American visitors.

The issue of exchange of information, which has long nettled the officials who run the program for this country, is a matter of considerable concern to President Kennedy, who has publicly emphasized his desire to give the Russian people a non-Soviet view of the United States.

At the outset of the talks, there were expectations that agreement could be reached if the Soviets would relax their stand a bit, but there now seems to be determination on the American side of the bargaining table to win from the Soviets more than a few tokens.

An element of uncertainty in the conduct of the negotiations lies in the appointment of a new Soviet ambassador, Anatoly F. Dobrynin, whose date of arrival has not been announced. It would be a coup for the new ambassador to wrap up a new agreement in a happy fashion for all parties shortly after his arrival.—D.S.G.

Announcements

Recipients of the Thomas Alva Edison Foundation's National Mass Media awards include:

Best children's science book: *Experiments in Sound*, by Nelson C. Beeler.

Best science book for youth: *The Atoms Within Us*, by Ernest Borek.

Best science television program for youth: *Watch Mr. Wizard*, NBC.

Special radio program citation: *Medical Milestones*, American Medical Association.

The proceedings of the international symposium on **numerical weather prediction**, held in Tokyo from 7 to 13 November 1960, have been published by the Meteorological Society of Japan. The 600-page volume covers summary reports, short-range forecasts, tropical cyclones, meso-scale phenomena, general circulation of the atmosphere and long-range forecasts, and panel discussions. (MSJ, c/o Japan Meteorological Agency, Otemachi, Tokyo. \$15)

The following exhibitions are available through the Smithsonian Institution's traveling exhibition service:

The Beginnings of Flight. A historical survey of aircraft development. Includes 65 photographs mounted on 43, 5-by-2-foot aluminum panels; models in Plexiglas cases of a balloon, airplane, and rocket towers; and an antique flicker machine containing film taken of the Wright brothers' flying demonstrations in Italy, France, and the United States. Space, 100 running feet; weight, 3757 lb; rental fee, \$150.

Physics and Painting. Compares and contrasts artistic and scientific conceptions from the Middle Ages to present day, developing a parallel between the artists' representation of mass, weight, movement, and light and the physicists' definitions of the same phenomena. Nine wall-hanging panels, each 4 by 4 feet. Space, 70 running feet; weight, 400 lb; rental fee, \$125.

The Image of Physics. Photographic study of a series of experiments showing the relationship of a bouncing ball to the surface it strikes, the path traveled by an asymmetrical body (here a wrench) when thrown, and water waves. Space, 140 running feet; weight, 807 lb; rental fee, \$100.

Charles Darwin: The Evolution of an Evolutionist. Follows Darwin

through his early years, his experiences as a naturalist aboard H.M.S. *Beagle*, and the period of provincial family life and scholarship. Includes an evaluation of Darwin's contribution to science. Mounted on 20 hanging panels, each 4 by 6 feet. Space, 150 running feet; weight, 1567 lb; rental fee, \$100. (Traveling Exhibition Service, Smithsonian Institution, Washington 25, D.C.)

Films

Short Term Visual Memory; 18 minutes, black and white, free loan. An experiment in visual perception, demonstrating the existence of a temporary information storage in the seeing mechanism. Film viewers may participate by testing their own visual memory of items flashed on the screen. (Bell Telephone Laboratories, 463 West St., New York 14)

Manufacture of Dies; 11 minutes, color, free loan. Outlines steps in the manufacture of lamination dies from oil-hardening, high-carbon, high-chrome tool steel. (Syndicated Films, 1022 Forbes St., Pittsburgh 19, Pa.)

The Master Element; 29 minutes, color, free loan. Covers conservation, control, and utilization of America's water resources. (American Waterways Operators, Suite 502, 1025 Connecticut Ave., Washington 6, D.C.)

Human Gastric Function; 18 minutes, color, free loan. A partial record of an extensive investigation of gastric fistula. Covers the stomach's complex responses to different psychological states and stresses. (Film Center, Smith Kline & French Laboratories, Philadelphia, Pa.)

Television

Meet the Professor, ABC-TV; series; 2:30 P.M. (E.S.T.) Sundays. Illustrates the differences in teachers and methods. The 25 February production will feature Richard I. Evans, professor of psychology at the University of Houston, interviewing Carl G. Jung. Evans will also discuss his ideas in the areas of social psychology and personality theory.

Thresholds for Tomorrow, NBC-TV; 10 March, 7:30 P.M. (E.S.T.). Outlines of current research on the atom, DNA, the sea, miniaturization, and computer technology, and its potential usefulness to mankind.

Courses

An institute on developments in **medical library administration** will be held in Chicago from 9 to 15 June. Participants, limited to 25, will be provided with expenses through a grant from the National Institutes of Health. Deadline: *23 March*. (Wilma Troxel, University of Illinois Medical Center, 1853 W. Polk St., Chicago 12)

A research-training institute in techniques of **heuristic digital-computer programming**, using methods observed in human problem-solving, will be held from 17 June to 27 July in Santa Monica, Calif. Participants should have a doctoral degree and previous experience in computer programming. Stipends and travel allowances will be offered. Deadline: *30 March*. (Bert F. Green, Jr., Computer Sciences Department, Rand Corporation, Santa Monica, Calif.)

A laboratory course in **histochemistry**, covering tissue-preparing techniques, enzyme and carbohydrate histochemistry, and fluorescence microscopy, will be held from 4 to 16 June in Kansas City, Kan. Tuition is \$75. (Department of Postgraduate Medical Education, University of Kansas School of Medicine, Kansas City 3)

A 2-week training course on the **sanitary engineering aspects of nuclear energy** will be held from 12 to 23 March in Cincinnati. The course, conducted by the U.S. Public Health Service's Division of Radiological Health, will include sessions on radiation fundamentals and instrumentation, and protection guides and legislative aspects as they relate to federal, state, and local control programs. (Chief, Training Program, Taft Sanitary Engineering Center, 4676 Columbia Pkwy., Cincinnati 26, Ohio)

A summer institute on **advanced topics in the computer sciences**, sponsored by the National Science Foundation, will be conducted by the University of North Carolina from 11 June to 20 July. The institute is planned to prepare personnel to direct university computation centers for research and educational purposes, and to teach introductory and advanced courses in the field. Deadline: *1 March*. (John W. Carr, III, Computation Center, University of North Carolina, P.O. Box 929, Chapel Hill)

A 41-day cruise school in **agriculture and textile design** will leave San Francisco on 8 July for New Zealand. Courses, to be conducted en route by University of California faculty, will cover soils and plant nutrition, the interrelationship of plants and man, food science, principles of grassland husbandry, and textile design. The \$1400 cruise cost covers food and living accommodations during a 10-day stay in New Zealand. Tuition is \$30. (Agricultural Travel Study Tour, 442 Post St., San Francisco)

A 10-month graduate-level correspondence course on the **economic and industrial aspects of national security** and the interrelated effects of military, logistic, administrative, scientific, technological, political, and social factors is being offered by the Industrial College of the Armed Forces. All texts and instructional materials are furnished free of charge. (Commandant, Industrial College of the Armed Forces, Correspondence Course Division, Washington 25, D.C.)

A graduate program in **cell biology**, leading to the M.S. or Ph.D. degree, has been inaugurated at Iowa State University. Applicants should have completed introductory courses in bacteriology, botany, zoology, genetics, mathematics (through calculus), chemistry (through organic), and a year of physics. A limited number of research and teaching appointments are available. (John H. D. Bryan, 360 Science Bldg., Iowa State University, Ames)

Grants, Fellowships, and Awards

The National Science Foundation is offering a limited number of **individual travel grants** to American scientists who wish to attend the following:

The 16th *International Horticultural Congress*, to be held from 31 August to 7 September in Brussels, Belgium. Applications must include title and abstract of the paper to be presented, and a biography and scientific qualifications of the author. Deadline: *15 March*. (Secretary, American Society for Horticultural Science, Department of Horticulture, Michigan State University, East Lansing)

The 6th *International Congress on Prehistoric and Protohistoric Sciences*, to be held from 29 August to 23 September in Rome, Italy. Grants will de-

fray partial round-trip travel expenses. (A. C. Spaulding, NSF, Washington 25)

The *NATO Advanced Study Institutes*, to be held in Europe during 1962. Application information and a detailed listing of the institutes—advanced courses in the physical, mathematical, and biological sciences—are available on request. (Office of International Science Activities, NSF, Washington 25, D.C.)

The Botanical Society of America is accepting nominations for the Darbaker prize in **phycology**. The award, limited to residents of North America, will be presented for algae research which has been published during the past 2 years. Deadline for receipt of nominations and reprints: *1 June*. (Paul C. Silva, University of California, Berkeley)

Applications for the Drummond fellowship for **research in nutrition** are being accepted by the University College, London. The 2-year fellowship carries an annual stipend of £1100 and a maximum of £50 for expenses. Deadline: *10 April*. (Secretary, Drummond Trust, University College, Gower St., London, W.C.1)

Meeting Notes

A conference on **information retrieval** will be held from 18 to 20 April in Cleveland. The conference, sponsored by Western Reserve University, will review research, development, and operational activities related to mechanical literature-searching systems. Registration fee is \$10. (Center for Documentation and Communication, WRU, 10831 Magnolia Dr., Cleveland 6, Ohio)

Empirical or theoretical papers on the **nature of modern religious consciousness** are being solicited for presentation at the 1962 meeting of the Society for the Scientific Study of Religion, to be held on 26 and 27 October in New York. Deadline for receipt of abstracts: *1 May*. (Peter Berger, 55 Elizabeth St., Hartford 5, Conn.)

A symposium on **high-resolution nuclear magnetic resonance spectroscopy**, sponsored by the American Chemical Society's division of physical chemistry, will be held from 2 to 4 July at Boulder, Colo. A limited number of short papers, emphasizing current problems

and recent research in the field, will be accepted. (Max T. Rogers, Department of Chemistry, Michigan State University, East Lansing)

Scientists in the News

Frederic W. Nordsieck, former executive officer in the American Cancer Society's research department, has been appointed a scientific associate of the Memorial Sloan-Kettering Cancer Center, and chief of grants and fellowships at Sloan-Kettering Institute for Cancer Research in New York.

Donald L. Wilhelm, professor of pathology at the University of New South Wales in Sydney, Australia, and **Percy O. Lindgren**, instructor in the department of pharmacology at Sweden's Karolinska Institutet in Stockholm, are serving as visiting professors at the State University of New York's Downstate Medical Center, Brooklyn.

Recipients of the 1962 Federal Woman's Award include:

Thelma B. Dunn, head of the National Cancer Institute's cancer induction and pathogenesis section.

Allene R. Jeanes, chemist with the Department of Agriculture's cereal properties laboratory in Peoria, Ill.

Nancy G. Roman, chief of astronomy and astrophysics programs in the National Aeronautics and Space Administration's office of space sciences.

Recent staff appointments at Electro-Optical Systems in Pasadena, Calif.:

Stuart M. Lee, of Aerojet-General, is a senior chemist in the chemical research department.

James E. Densmore, of Jet Propulsion Laboratory, is a director in the advanced electronics and information systems division.

Felix Bloch, a 1952 Nobel laureate currently with Stanford University's department of physics, has been appointed Stanford's first Max H. Stein professor of physics.

Ralph W. Phillips, director of the U.S. Department of Agriculture's International Organizations Division, is on detail to the United Nations as the scientific secretary for agriculture at the U.N. Conference on Science and Technology, with headquarters in Geneva, Switzerland.

Niels K. Jerne, head of the World Health Organization's biological standardization section in Geneva, has been appointed professor and chairman of the department of microbiology at the University of Pittsburgh School of Medicine.

Herman G. Baity, director of WHO's division of environmental sanitation, has retired and returned to the University of North Carolina as visiting professor of sanitary engineering.

Recent awards of the American Meteorological Society:

Bernard Haurwitz, of the University of Colorado's department of astrophysics, has won the Rossby award for his work in dynamic meteorology.

Louis J. Battan, of the University of Arizona's Institute of Atmospheric Physics, has won the Meisinger award for his work in radar meteorology and cloud physics.

Alfred H. Glenn, president of A. H. Glenn and Associates in New Orleans, has won the Applied Meteorology award for his use of meteorology and civil engineering in forming an approach for weather advice to industry.

Egon E. Loebner, of RCA Laboratories in Princeton, N.J., has been named manager of optoelectronics for HP Associates, an affiliate of Hewlett-Packard Company, in Palo Alto, Calif.

Walter L. Koltun, formerly with the National Institutes of Health's biophysics and biophysical chemistry study section at Berkeley, Calif., has joined the staff of the National Science Foundation's resources planning office. The NIH section, located at the University of California, was recently closed.

Uerner Liddel, formerly with the Advanced Research Projects Agency of the U.S. Department of Defense, has been appointed assistant director of Hughes Aircraft Company's research laboratories at Malibu, Calif.

Joseph F. Walling, former assistant professor of chemistry at Arizona State University, has joined the staff of Battelle Memorial Institute as a research chemist.

Louis T. Ho, of the University of Maryland's Institute of Molecular Physics Laboratory, has been appointed a senior physicist with General Kinetics Incorporated in Arlington, Va.

Detlev W. Bronk, president of the Rockefeller Institute and the National Academy of Sciences, has been awarded the 1961 gold medal of the Holland Society for his promotion of international relations among scientists.

Charles M. Judson, physical and analytical chemist with American Cyanamid Company's Stamford Laboratories, has been appointed chief of Consolidated Electrodynamics Corporation's newly formed advanced analytical development section in Pasadena, Calif.

Stanley G. Stephens, professor of genetics at North Carolina State College, has won the first Cotton Genetics Research award.

Paul W. Howerton, of the Central Intelligence Agency, has been appointed vice president and general manager of the communication sciences division at Information for Industry, Inc., in Washington, D.C.

Recent Deaths

John J. Bittner, 57; George Chase Christian professor of cancer research and director of the division of cancer biology at the University of Minnesota since 1942; 14 Dec.

Edmund K. Hall, 59; embryologist and professor of anatomy at the University of Louisville School of Medicine; 28 Jan.

Clarence V. Hudgins, 65; psychologist and director of experimental phonetics research at Clarke School for the Deaf in Northampton, Mass.; 30 Jan.

Moses N. Levine, 75; former plant pathologist with the U.S. Department of Agriculture at St. Paul, Minn.; 31 Jan.

Charles Philpott, 86; physicist and retired dean of administration at Chadron State Normal College in Nebraska; 5 Dec.

John W. Southworth; deputy commissioner of the Indiana Department of Mental Health; 28 Jan.

Albert H. Taylor, 83; former chief consultant for electronics at the Naval Research Laboratory; 12 Dec.

Charles E. Vanderkleed, 83; former vice president and scientific director of McNeil Laboratories in Fort Washington, Pa.; 4 Feb.

Edy Velander, former director of the Royal Swedish Academy of Engineering Sciences in Stockholm; 26 Nov.