

Under a \$65,000 contract to be completed in December 1964, the M.I.T. Center will study the implications for the Soviet Union of various arms control proposals. A second project, to be completed in September 1964, for \$145,000, will examine possible regional arms control agreements in Africa, Latin America, and the Middle East and their implications for U.S. foreign policy. The M.I.T. group will be joined on the second project by groups from Harvard (Middle East aspects), Boston University (Africa), and Columbia (Latin America).

A third contract is drawn up along the lines of previous ACDA research contracts. For \$202,000, Sylvania Electric will study inspection techniques for policing an agreement to disarm conventional forces.

Taken together, the contracts make a sizable inroad into the Agency's \$4 million 1963 research budget. Just 6 weeks before the fiscal year closes, the Agency still has \$1.25 million on its hands, though it anticipates that several contracts will be closed and that its surplus will be no more than about \$35,000. The Agency has now let a total of 18 contracts since it was established, in September 1961.—E.L.

Announcements

CBS Reports for 22 May will present a filmed interview of **Igor Evgenievich Tamm**, Nobel-prize-winning Soviet physicist. In "Reflections of a Soviet Scientist" Tamm discusses disarmament, scientists, and U.S.-Soviet relations. According to CBS, the interview is "unrehearsed and uncensored;" it takes place inside the P. N. Lebedev Institute of Physics, Moscow, where Tamm is director of the theoretical physics laboratory. The program time varies with location.

The U.S. Atomic Energy Commission and NASA have standardized the size of **microfilmed reports** on science and technology released by each agency. They have adopted a reduction ratio of 18 to 1, an image frame size of 16 by 23 mm, and a precise separation between frames of 0.5 mm. Further information on the project is available from the Division of Technical Information, AEC, or the Office of Scientific and Technical Information, NASA, Washington 25.

Grants, Fellowships, and Awards

Research appointments are available at the recently established E. O. Hulburt Center for **Space Research**, Washington, D.C. Applicants may be Ph.D. candidates, postgraduates, or university faculty members; they must be U.S. citizens and must have or be able to obtain a Department of Defense secret clearance. The grants, sponsored by the National Science Foundation, are generally for 1 year. Stipends will vary with the applicant's degree and professional status and experience. (E. O. Hulburt Center for Space Research, U.S. Naval Research Laboratory, Washington 25)

The Maimonides Hospital, Brooklyn, is offering a 1-year research appointment in the **experimental surgery** laboratory. An interdisciplinary research program will stress electronic control of physiologic systems. The appointment carries a \$6500 stipend. (Adrian Kantrowitz, Maimonides Hospital, 4802 10th Ave. Brooklyn 19, N.Y.)

Fellowships are available from the Helen Hay Whitney Foundation for biological or medical research on **diseases of the connective tissues**. Applicants must hold an M.D. or Ph.D. degree, and be no more than 35 years of age. The awards are for 3 years, and carry a yearly stipend of \$6500, plus a \$500 annual increment and \$500 for each dependent. Deadline for applications: 15 August. (H. H. Whitney Foundation, 22 E. 65 St., New York 21)

Courses

A course on **botanical histochemistry** is scheduled 8-26 July at the University of California, Berkeley. It will cover histochemical procedures, with emphasis on application to plant tissue and use in specific research problems. Lecture and laboratory sessions are included. (Univ. of California Extension, Berkeley 4)

Massachusetts Institute of Technology will offer a course on **probabilistic systems analysis**, 8-19 July. The program, on a graduate level, will develop the theory of probability from fundamental concepts. (Director, Summer Session, Room 7-103, M.I.T. Cambridge, Mass.)

The New York University **statistics** institute for engineers, statisticians, and administrators of engineering firms will take place this year in two phases. Statistics of life testing will be emphasized 17-28 June, and probabilistic techniques in systems reliability and maintainability will be discussed 4-14 September. Applicants may register for either or both sessions. (R. N. Wilburn, Bureau of Conferences and Institutes, New York University, 6 Washington Square North, New York 3)

The University of Michigan will hold a course in **written communication** for scientists, engineers, and technical writers, 5-9 August. Lectures and workshops will be included. Each participant will receive a set of lecture notes. The fee for the course is \$160; advance registration is required. (Conference Secretary, Engineering Summer Conferences, Univ. of Michigan, Ann Arbor)

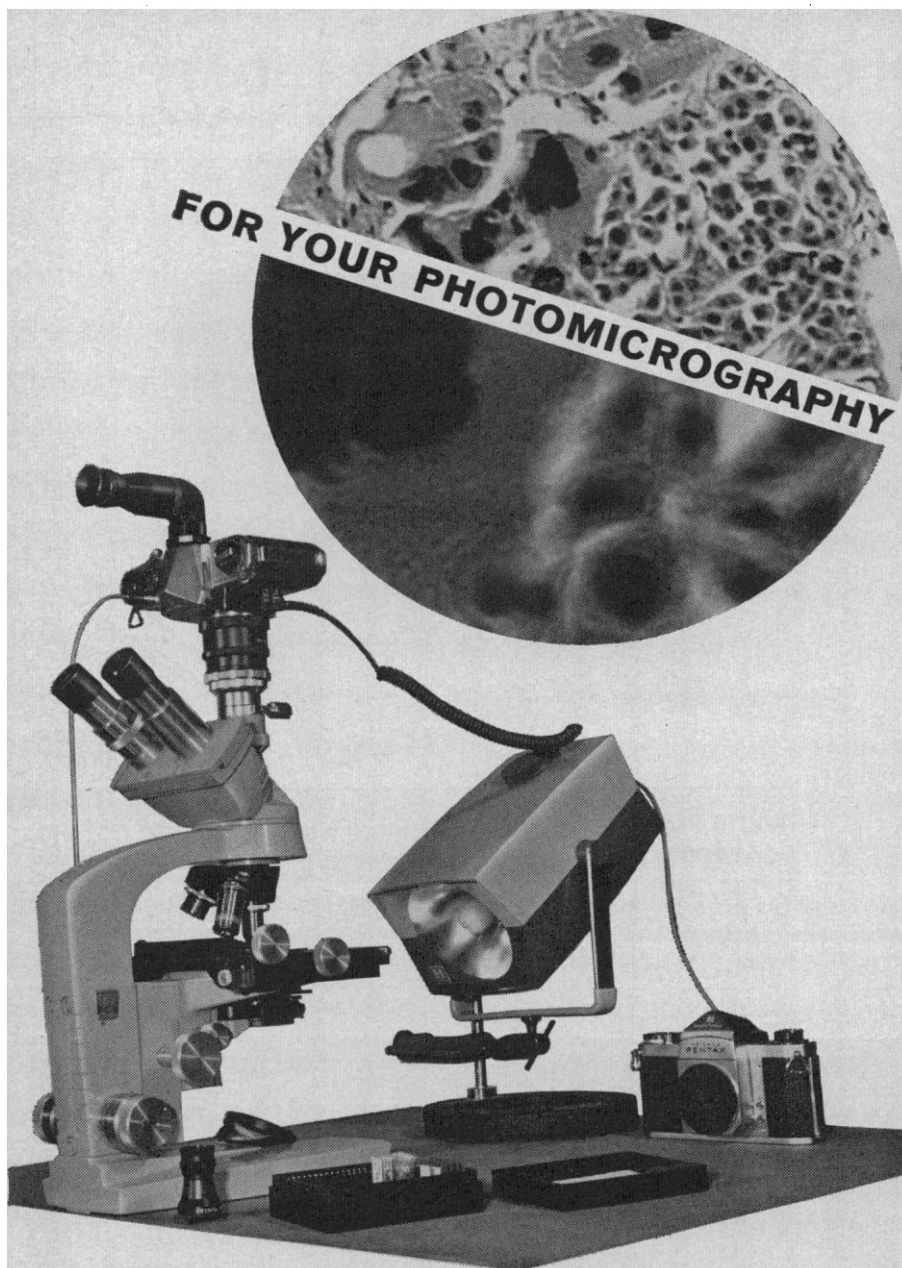
Columbia University is offering a 1-year course leading to a master of science degree in **radiological physics**. Training will center around the work of physicists in a hospital radiology department; it will also provide a foundation for research or applications of radiological physics, radiation protection, and dosimetry. Applicants must have a bachelor's degree with a major or strong minor in physics.

Financial aid is available through a U.S. Public Health Service grant. Applicants must be U.S. citizens or have filed a declaration of intent. (W. Gross, 630 W. 168 St., New York 32)

A course on modern **industrial spectroscopy** is scheduled for 15-26 July at Boston College. It is designed for chemists and physicists in industry, and will cover techniques of emission spectroscopy used in analytical work. (J. J. Devlin, S.J., Dept. of Physics, Boston College, Chestnut Hill 67, Mass.)

The biology department at Clark University and the electrical engineering department at Worcester Polytechnic Institute, Worcester, Mass., plan a cooperative **biomedical engineering** program beginning in September. The schools have established reciprocal policies on course credit, tuition, and enrollment prerequisites. Graduate students who emphasize engineering in their course work will receive the M.S. degree from W.P.I., while those who

(Continued on page 834)



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NEWS AND COMMENT

(Continued from page 796)

emphasize biology will earn the M.A. from Clark. Undergraduates will also be eligible to participate in the program.

The University of Maryland will be the site of a **space communications** institute 23–28 June, sponsored by the university and NASA's Goddard Space Flight Center. The course will cover the theory and technology of radio transmission involved in space science and engineering. The registration fee of \$115 will include class materials, lunches, and social programs. Participation will be limited to 80 persons. (C. C. Veri, Div. of Institutes, Univ. of Maryland, College Park)

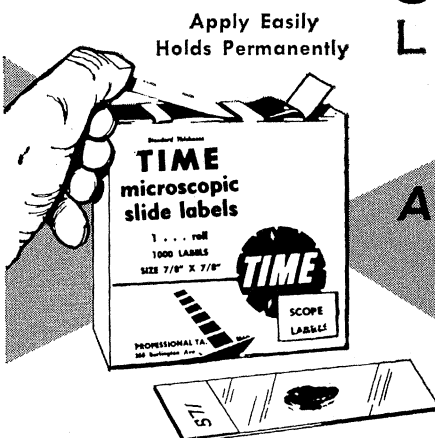
Publications

The U.S. Atomic Energy Commission has released a third annual report on research activities, entitled **Fundamental Nuclear Energy Research—1962**. The 405-page publication covers advances made on a sampling of projects carried out by the divisions of biology and medicine and of research. It includes descriptions of some unclassified research performed under the jurisdiction of the division of military application and of some work done for the division of reactor development. The appendices list major AEC research and development centers and show the extent of contracts awarded to colleges, universities, medical centers, and industrial organizations. (Superintendent of Documents, GPO, Washington 25)

The 1963 edition of the "Film Guide on Chemicals, Chemistry and the Chemical Industry" is available free of charge from the Manufacturing Chemists' Association. The bibliography lists 271 films in 16 categories, and indicates the audience level for which each film is intended. Films are included for elementary through college classes, and for adult groups. (MCA, 1825 Connecticut Ave., Washington 9)

The National Science Foundation has released its final report on the findings of a survey, "Scientific Research and Development in Colleges and Universities—Expenditures and Manpower, 1958." The report emphasizes the concentration of funds in relatively few institutions and the effects of the support

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of science on the total educational balance of a college or university. The survey is the second of its type to be carried out by NSF; the first covered 1954. (NSF 62-44, Superintendent of Documents, GPO, Washington 25. 140 pp. 70¢)

Scientists in the News

The American Psychiatric Association has awarded the Hofheimer prize for research to two teams of scientists. **Howard E. Freeman**, associate professor of social research at Brandeis University and **Ozzie G. Simmons**, sociology professor and director of the University of Colorado's institute of behavioral sciences, were cited for their study of mental patients during the first year after hospitalization. The results are published in the book, *The Mental Patient Comes Home* (Wiley, New York, 1963). **Jerome Kagan**, chairman of the psychiatry department at Fels Research Institute and **Howard A. Moss**, research psychologist in the child research branch of the National Institute of Mental Health, were honored for work reported in their book *Birth to Maturity, A Study in Psychological Development* (Wiley, New York, 1962).

At the University of Vermont, **Clinton Cook**, chairman of the chemistry department, has become dean of faculties, and **Warren Essler**, chairman of the electrical engineering department, has been appointed dean of the college of technology.

At last month's meeting of the **National Academy of Sciences** the following scientists received awards:

Maurice Ewing, director of Columbia University's Lamont Geological Observatory, the Carty medal for studies of the geology of the earth.

J. George Harrar, president of the Rockefeller Foundation, the Public Welfare medal for his contributions in the application of science to public welfare.

Matthew Meselson, associate professor of molecular biology at Harvard, the molecular biology award for his work with DNA molecules.

Roger Revelle, director of the Scripps Institution of Oceanography and dean of research at the University of California, the Agassiz medal, for outstanding achievement in oceanography.

Curt Stern, professor of genetics and zoology at the University of California,

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Berkeley, the Kimber genetics medal, for his contributions to the understanding of heredity.

Richard Tousey, head of the rocket spectroscopy branch in the Naval Research Laboratory atmospheric and astrophysics division, the Draper medal, for his achievements in solar spectroscopy.

The Academy has also announced the election of six foreign scientists as associate members:

Homi Jehangir Bhabha, director and professor of theoretical physics, Tata Institute of Fundamental Research, Bombay, India.

Wilfrid LeG. Clark, emeritus professor of anatomy at Oxford University.

Howard W. Florey, professor of pathology at Oxford University.

Jerzy Konorsky, head of the neurophysiology department and deputy director of the Nencki Institute of Experimental Biology, Warsaw, Poland.

Hisashi Kuno, petrology professor at the Geological Institute of the University of Tokyo.

Nikolai N. Semenov, director of the Institute for Chemical Physics of the Soviet Academy of Sciences and professor at the Moscow State University.

Harold P. Klein, biology professor at Brandeis University, is on leave of absence to work at the Ames Research Center, California, on the organization of the division of exobiology, recently created by NASA.

Andrew J. Bartilucci, dean of the College of Pharmacy at St. John's University, Jamaica, N.Y., has been elected president of the New York chapter of the American Pharmaceutical Association.

John V. Harrington, of the Lincoln Laboratory, Massachusetts Institute of Technology, has been appointed director of the new Center for Space Research at M.I.T.

Recent Deaths

Frederic W. Bancroft, 82; retired surgical director of the Fifth Avenue and the Lincoln Hospitals in New York; 24 April.

Ivar W. Brogger, 82; engineer, inventor, retired from DeJur Amsco Co.; 20 April.

Leroy Childs, 74; professor emeritus

and retired superintendent of the Hood River, Ore., Experiment Station and a fellow of AAAS; 11 April.

Paul Fejos, 66; president and research director for the Wenner-Gren Foundation for Anthropological Research; 23 April.

Frank X. Gassner, 67; professor and chief endocrinologist at Colorado State University; 21 April.

A. Whitney Griswold, 56; president of Yale University; 19 April.

Archibald Hoyne, 84; pediatrics professor at Chicago Medical School; 3 March.

Robert A. Jehle, 81; retired professor of plant pathology at the University of Maryland; 5 April.

John McMullen, 93; retired assistant surgeon general of the U.S. Public Health Service; 28 April.

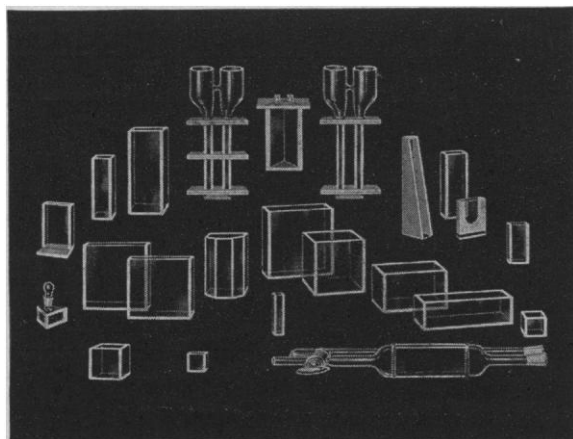
Raymond P. Sullivan, 81; emeritus director of surgery at St. Vincent's Hospital, New York; 21 April.

Irving B. Wershaw, 61; chairman of the board at Dome Chemicals, Inc., and vice president, Miles Laboratories, Elkhart, Ind.; 2 May.

Erratum. Antisera to the Friend leukemia virus, as advertised by University Laboratories [*Science*, 140, 638 (10 May)], will not be available.

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