Ill., 4–8 June. The 25th series of sessions is scheduled for 24–28 Sept. at the Sir Francis Drake Hotel, San Francisco, Calif.

Morning sessions will be devoted to lectures and afternoon meetings will involve laboratory demonstrations with the latest type of equipment. This work will include powder camera techniques, the x-ray diffractometer (diffraction goniometer), and the x-ray spectograph (fluorescence analysis).

On Friday, several speakers will discuss details and methods that are in use in industrial plants and laboratories. No registration fee is charged, and those who wish to attend are urged to register as soon as possible, since accommodations will be limited. For information, write to the North American Phillips Company, Inc., 750 S. Fulton Ave., Mount Vernon, N.Y.

Grants, Fellowships, and Awards

■ Final details of the organization of Atoms for Peace Awards, Inc., have been announced by James R. Killian, Jr., president of Massachusetts Institute of Technology and chairman of the new corporation. This is the first organization set up to make international awards for outstanding contributions to the peaceful uses of atomic energy.

The awards are made possible by a $1 million appropriation of the Ford Motor Company Fund, as a memorial to Henry Ford and his son, Edsel Ford. The awards were first announced in Geneva, Switzerland, during last summer's International Conference on the Peaceful Uses of Atomic Energy [*Science* **122**, 372 (26 Aug. 1955)]. A summary of details of organization and award-making procedures follows:

1) Winners each year will be selected from individuals or organizations anywhere in the world, that, in the opinion of the trustees, have made the greatest contributions to the peaceful uses of atomic energy.

2) The award will consist of a medal, accompanied by a cash honorarium of up to $75,000.

3) The decision of the trustees will be made solely on the basis of the merit of the contributions, wherever found in the world.

4) If the trustees fail to discover a candidate "preeminently meriting" the award in any year, the award and medal may be withheld during that year. In that event, the trustees "may hold the funds available for additional Awards in future years or dispose of that year's funds by grants in the United States of America to advance the science or technology relating to the uses of atomic energy for peaceful purposes."

Trustees of Atoms for Peace Awards, Inc., in addition to Killian, are Detlev W. Bronk, president of the Rockefeller Institute for Medical Research and president of the National Academy of Sciences; Ralph J. Bunche, Under Secretary of the United Nations; Arthur H. Compton, professor and former chancellor, Washington University; Mildred McAfee Horton, former president of Wellesley College, and wartime director of the WAVES; Mervin J. Kelly, president of Bell Telephone Laboratories; and Alan T. Waterman, director of the National Science Foundation.

Nominations for the awards will be received from individuals and organizations, including learned societies, in any part of the world. Appraisals will be based on freely available information, not on classified or secret data.

An advisory committee on nominations, appointed by the trustees from citizens of the United States, will screen candidates and make recommendations for the awards to the trustees, who will make the final selection. Members of the advisory committee are Robert F. Bacher, physicist, director of the Norman Bridge Laboratory at the California Institute of Technology; Robert F. Loeb, professor of medicine at Columbia University; Robert Lovett, general partner, Brown Brothers Harriman and Company, former Under Secretary of State and Secretary of Defense; I. I. Rabi, professor of physics at Columbia University, winner of the Nobel prize in physics (1944); and Charles A. Thomas, president, Monsanto Chemical Company. All questions on nominating procedures should be addressed to the Executive Secretary, Atoms for Peace Awards, Inc., 77 Massachusetts Ave., Cambridge 39, Mass., U.S.A.

■ Imperial Chemical Industries, Ltd., publishers of the quarterly scientific review *Endeavour,* have offered the sum of 100 guineas to be awarded as prizes for essays submitted on a scientific subject. Because the primary purpose of these awards is to stimulate younger scientists to take an interest in the work of the British Association for the Advancement of Science and to raise the literary standard of scientific writing, the competition is restricted to those whose 25th birthday falls on or after 1 June.

Five prizes will be awarded: a first prize of 50 guineas, a second prize of 25 guineas, a third prize of 15 guineas, and two special prizes of 5 guineas for competitors who have not passed their eighteenth birthday on 1 June.

The subjects for the essays are as follows: (i) research in polar regions; (ii) scientific aids to archeology; (iii) the story of steel-making; (iv) the chemistry of big molecules; (v) new elementary particles, and (vi) the control of plant diseases.

The essays, which must be in English and typewritten, should not exceed 4000 words in length; only one entry is permitted from each competitor. The latest date for receipt of entries is 1 June 1956. The essays will be judged by the editor of *Endeavour* in consultation with representatives of the British Association. The successful competitors will be invited to attend the whole of the Sheffield meeting, at which the prizes will be presented, and their expenses within the United Kingdom will be paid. In judging the essays, special attention will be paid to the originality of the approach to the subject, and great importance will be attached to literary style. The competitor's age will also be taken into account. The essay winning the first prize will be published in *Advancement of Science,* journal of the British Association.

The essays must be submitted without signature. The competitor's full name and address and date of birth should be disclosed in a sealed covering letter attached to the essay and addressed to: The Assistant Secretary, British Association for the Advancement of Science, Burlington House, Piccadilly, London, W.1.

■ The American Cancer Society has announced that its program of clinical fellowships will continue through 1957–58, with fellowships beginning 1 July 1957. Fellowships will be made available primarily to teaching institutions whose postgraduate specialty training programs are approved by the Council on Medical Education and Hospitals of the American Medical Association.

The *deadline for filing applications is 1 May.* No application forms are necessary, but letters of application should include (i) number of fellowships applied for; (ii) funds available to the institution from other sources for partial support of fellows; (iii) specialty contemplated for the fellow's training; (iv) name of person under whose supervision the fellow will be trained and to whom he will be directly responsible; (v) date the fellowship will begin; and (vi) a thorough documentation of the training the fellow will receive at the institution, including facilities available.

Clinical fellowships in radiation therapy are offered to properly qualified graduates in medicine who wish to have additional training at certain clinics in the United Kingdom, the Scandinavian countries, and France. Applicants must be citizens of the United States, under 40 years of age, who have previously received training in therapeutic radiology acceptable to the American Board of Radiology as credit toward certification.

The annual stipend is $4500 per year,

including travel. When such a fellowship is awarded, an initial travel fund of $900 will be paid to the recipient. The remainder of the stipend will be paid in advance in monthly installments of $300, beginning with the fellowship period.

The fellowship period will be 1 year, although in exceptional circumstances renewal for a year or less will be considered. Fellowships may begin at any time mutually agreeable to the institution and the fellow. Fellows may choose to spend the entire fellowship year in one institution or to divide the time between two or more; in the latter event, however, at least 8 months must be spent in a single institution.

All arrangements for affiliation with foreign institutions must be made by the fellow or his preceptor directly with the appropriate officials in those institutions after the fellowship is awarded; only the contemplated program need be submitted with the application.

Application forms and further information about both types of fellowship may be obtained from the Professional Education Section, American Cancer Society, 521 W. 57 St., New York 19. Applications must be submitted through the executive officer of the applicant's institution.

In the Laboratories

■ Arthur D. Little, Inc., Cambridge, Mass., acquired the Miner Laboratories, Chicago, Ill., chemical consultants, on 1 Apr. John R. Kirkpatrick, who established the A.D.L. midwest office in 1952, will manage the new A.D.L. Midwest Division–Miner Laboratories. C. S. Miner, Jr., will continue to direct technical operations.

■ A Flight Laboratory for air and ground testing of airborne electronic equipment and systems has been established by the Radio Corporation of America at the New Castle County Airport, New Castle, Del.

The new facility is now in limited operation, and will be completely equipped with maintenance and laboratory test apparatus by May. It will be used for pre-flight and in-flight testing of RCA airborne equipment and fire-control systems for military aircraft. The laboratory will also be used for flights in connection with operational tests of RCA ground radar systems.

■ The National Carbon Company, a division of Union Carbide and Carbon Corporation, received the "Oscar" of the Academy of Motion Picture Arts and Sciences for its contribution to the art of studio lighting. The award was made in recognition of National Carbon's development and production of yellow-flame carbon for motion-picture color photography.

A product of several years of research, the yellow-flame carbon operates at a color temperature of 3350°K, which eliminates the need for heavy filters to provide a white light source balanced to the color characteristics of motion-picture color film.

■ The U.S. Atomic Energy Commission has announced that it has concluded arrangements with the Ohio Oil Company, in association with Arthur E. Pew, Jr., of Philadelphia, under which the commission has given assurance of its willingness to negotiate a contract for purchase of a specified quantity of uranium concentrates to be produced from uraniferous lignites.

Lignites containing significant grades of uranium are known to exist in the western parts of North and South Dakota. However, the lignites cannot be economically treated by the metallurgical techniques applied to standard uranium ores, such as those found in the Colorado Plateau area. The Ohio Oil Company and Pew currently are conducting development work on a process which they believe will be economic for processing the lignites. If they decide to construct a mill, then the commission will enter into negotiations with them for the purchase of the concentrates. Catalytic Construction Company has been retained by Pew and Ohio Oil Company to proceed with pilot-plant operations.

■ Nuclear Science and Engineering Corporation, Pittsburgh, Pa., is building a new and additional laboratory facility on a 3½-acre site near the Allegheny County Airport as part of its expanding program in radiobiology. The department of biology and medicine moved to the new building on 1 Apr. and will continue work in radiation sterilization of food, radiation of sewage, study of radiation effects on living organisms, irradiation-induced toxic factor, and health-physics determinations.

Miscellaneous

■ The Near East College Association has a number of teaching opportunities open, beginning in Sept. 1956, in schools and colleges in Greece, Lebanon, and Turkey. The association has issued an 8-page memorandum listing 28 scientific academic appointments at six institutions, generally for 3-year terms, with salary, transportation, and maintenance.

English is the language of instruction. Some positions require Ph.D.'s, and some M.S. or B.S. degrees. There are three openings in chemistry, two in biology, six in engineering, seven in mathematics, and eight in physics. Those interested should write to S. Elizabeth Ralston, Near East College Association, 40 Worth St., New York 13.

■ The 87 scientific and technical papers on atomic energy that were presented at the Conference on Peaceful Uses of Atomic Energy sponsored by the U.S.S.R. Academy of Science in Moscow, 1–5 July 1955, have been translated and are being published in four volumes.

Volume 1 includes the 23 papers presented at the session of the Division of Physico-Mathematical Sciences on nuclear properties of heavy elements, theoretical and experimental work on uranium-graphite, reactors and lattices, radiation effects, and so forth.

Volume 2 includes the 19 papers presented at the Session of the Division of Chemical Science on high-energy fission and spallation, effects of ionizing radiation on chemical reactions, and application of nuclear techniques to chemical structure and reactivity.

Volume 3 includes the 18 papers presented at the Session of the Division of Technical Science on the application of nuclear technology to industrial processes and prospecting.

Volume 4 includes the 21 papers presented at the Session of the Division of Biological Science on biological and biochemical effects of ionizing radiation and the application of nuclear techniques in biochemical and physiological investigations.

These volumes are available, on public sale, from the U.S. Government Printing Office, Washington 25, D.C., at $4.25 per set.

■ The Association for Applied Solar Energy published the first issue of its newsletter, *The Sun at Work,* in March. The purpose of this quarterly is to provide news of association activities as well as information about people and developments in the field. Guy Beveniste, an economist at Stanford Research Institute, is editor.

The first mailing, consisting of 10,000 copies, was sent to scientists, engineers, architects, and industrialists in 37 countries. Many of these people had attended the World Symposium on Applied Solar Energy that was held last year in Phoenix, Ariz.

The association also plans to issue *The Journal of Solar Energy Research,* which will be a scientific publication for original papers and for extensive abstracts of contributions previously printed elsewhere.

Other recent activities of the association include the operation of a solar energy library and the establishment of a museum of solar energy research.