

Scientific Meetings

Peaceful Uses of Atomic Energy

The International Conference on the Peaceful Uses of Atomic Energy, an outgrowth of President Eisenhower's proposal to the United Nations on 8 Dec. 1953 for a pooling of atomic knowledge for peacetime use, will convene at the Palais des Nations in Geneva, Switzerland, on 8 Aug. The conference was called in accordance with a United Nations resolution, which was adopted unanimously by the General Assembly on 4 Dec. 1954, that stated "... an international technical conference of Governments should be held, under the auspices of the United Nations, to explore means of developing the peaceful uses of atomic energy through international cooperation and, in particular, to study the development of atomic power and to consider other technical areas—such as biology, medicine, radiation protection, and fundamental science—in which international cooperation might most effectively be accomplished." The decision to hold the conference formed part of a resolution that was originally sponsored by the governments of Australia, Belgium, Canada, France, the Union of South Africa, the United Kingdom, and the United States. The first part of the resolution expressed the hope "... that the International Atomic Energy Agency will be established without delay."

All 60 member states of the United Nations, as well as 24 other states that are members of the specialized agencies, were invited to participate. In addition, the 10 specialized agencies themselves were invited. Sixty-six governments have accepted, of which 33 submitted papers. Each participating state and agency has been allotted five delegates, who may be accompanied by as many advisers as they may need.

The conference is to be scientific and nonpolitical in character; it will not pass resolutions or make recommendations. It is intended to provide a meeting place where scientists and other experts from all parts of the world may exchange information, most of it more of an applied nature rather than of a theoretical nature. Approximately 440 papers of the some 1100 that were submitted to the U.N. will be presented. Papers for the conference were screened twice: each government's participating agency se-

lected papers written by its own nationals for submission to the U.N.; a U.N. committee then made a final selection. All accepted papers, whether or not they are presented orally, will be printed in the conference proceedings.

An exhibition will be held in conjunction with the conference. The exhibits of all countries will be divided into two categories, a scientific or technical exhibit designed primarily for the delegates, and a popular or commercial exhibit designed for the general public. The technical exhibits will be shown in the Palais des Nations; the commercial exhibits, in the Palais des Expositions in downtown Geneva. The commercial exhibit was organized by a private firm in Geneva, the Organizing Committee for The First International Exhibition of the Peaceful Uses of Atomic Energy.

Sixty 3-hr sessions have been scheduled. Most of the speaking time has been allotted to the United States (52 hr), the United Kingdom and the Soviet Union (approximately 19 hr each), Canada, and France. All sessions will be open to the public and simultaneous translation of papers into the four official languages, English, French, Russian, and Spanish, will be made.

Plenary sessions are to be held on the first 3 days and on the last day. The opening sessions will be devoted to survey papers concerned with sources of energy, world power requirements, sources of raw materials, power reactors, and uses of radioisotopes in biology, medicine, agriculture, industry, and general science. The closing session will review the highlights of the conference.

After the opening plenary sessions, there will be three parallel technical sessions, meeting morning and afternoon, devoted to the technical aspects of atomic energy—for example, reactors, reactor physics, reactor chemistry and metallurgy, biology and medicine, and applications of radioisotopes. The discussions will cover all aspects of the use of atomic energy, from raw materials through the fabrication and processing of fuel elements to the disposal of waste. United Nations officials, in mapping the conference, have placed considerable emphasis on reports concerned with the economic cost of building nuclear power stations in some of the less industrially developed countries.

Evening lectures of a general character will be given by scientists of world repute on such subjects as accelerators for nuclear particles, elementary particles and mesons, nuclear forces, nuclear structure, the neutron, isotopic dating, uses of radioactive substances in biology and medicine, free radicals, and new elements.

The participating agency for the United States is the Atomic Energy Commission. Delegates are Harry S. Traynor, executive director; George L. Weil, technical director; J. R. McKnight, information officer; Morse Salisbury, deputy information officer; and Laura Fermi, historian. In response to its invitation for the submission of papers, the AEC received slightly more than 1000, of which 524 were submitted to the U.N. after screening and consolidation by 12 review groups; approximately 180 of the 524 are scheduled for oral presentation.

The United States technical exhibit has been designed to supplement the technical papers. It includes an operating swimming-pool research reactor. Educational institutions, research organizations, and more than 50 industrial and commercial firms have contributed pieces of equipment, models, or components for the technical exhibit. Uranium processing, reactor models, reactor components and controls, instrumentation, radioisotopes, and basic research will be shown. Moreover, a 2½- to 3-hr film program will illustrate nuclear reactors for research, construction of a reactor, development of homogenous reactors, sodium-graphite reactors, safety experiments on a boiling-water reactor, and radioisotopes. In addition, the exhibit will include a technical library composed of an AEC depository, a book collection, and a periodical collection.

The U.S. Information Agency's educational exhibit that has been presented in Berlin, Munich, Frankfurt, and Vienna will be on display in the Palais des Expositions, where the commercial exhibit will also be held. Contributions to the commercial exhibit, which emphasizes instruments and products that are available for sale, came from 22 industrial and commercial organizations.

British scientists will present about 70 papers at the conference. The British displays at the technical exhibition will emphasize research and power reactors. They will include a 19- by 15- by 5½-ft model of the Harwell heavy-water experimental reactor and a detailed model of the Calder Hall atomic power station. Displays at the commercial exhibition will be devoted to a general survey of the peacetime applications of atomic energy in Great Britain. The United Kingdom's delegates are John Cockcroft, Christopher Hinton, J. F. Loutit, George Thomson, and Willis Jackson.

Thirteen papers will be read by members of the Canadian group. Canada's technical exhibit will include reactor models; a collection of radioactive minerals; instruments of many types; two cobalt-60 beam therapy units; and data sheets, blueprints, and diagrams of various reactors and reactor components.

Arrangements for the conference were handled by the Secretary-General of the United Nations, Dag Hammarskjöld, and an advisory committee composed of J. Costa Ribeiro (Brazil), W. B. Lewis (Canada), Bertrand Goldschmidt (France), Homi J. Bhabha (India), D. V. Skobel'tzin (U.S.S.R.), John Cockcroft (United Kingdom), and I. I. Rabi (U.S.A.). Conference officers are Homi J. Bhabha, chairman of the Atomic Energy Commission of India, president; Walter G. Whitman, chairman of the department of chemical engineering at Massachusetts Institute of Technology, secretary-general; and Viktor S. Vavilov, Institute of Physics of the Academy of Sciences of the U.S.S.R., deputy secretary-general.

Meeting Notes

■ The University of Wisconsin Medical School has announced the program for the Symposium on Metabolic Aspects of Transport across Cell Membranes that is to take place 29–31 Aug. in Madison under the sponsorship of the Wisconsin Alumni Research Foundation and the National Science Foundation. Participants include E. F. Adolph (University of Rochester), D. C. Darrow (University of Kansas), Hans Ussing (University of Copenhagen), M. B. Visscher (University of Minnesota), E. J. Conway (University College, Dublin), Silvio Weidmann (University of Bern), A. M. Shanes (NIH), W. O. Fenn (University of Rochester), W. S. Wilde (Tulane University), R. W. Gerard (University of Illinois), Frank Brink (Rockefeller Foundation), G. H. Mudge (Columbia University), R. W. Berliner (NIH), R. F. Pitts (Cornell University), R. E. Davies (Oxford University), F. E. Shideman (University of Wisconsin), Karl Beyer (Sharpe and Dohme), A. Farah (University of Syracuse), H. W. Davenport (University of Utah), W. S. Rehm (University of Louisville), Adrian Hogben (NIH), J. R. Elkinton (University of Pennsylvania), David H. P. Streeten (University of Michigan).

■ "Electronics and automatic production" will be the theme of a symposium at San Francisco's Sheraton-Palace Hotel 22–23 Aug., preceding the annual Western Electronic Show and Convention. Jointly sponsored by Stanford Research Institute and the National In-

dustrial Conference Board, Inc., New York, the meeting will include discussions of technical developments, social and economic implications, and the outlook for automation in the national technology.

Luncheon speaker on the opening day will be Charles S. Thomas, Secretary of the Navy, speaking on "Automatic production and national defense." Some 15 papers will be presented.

William D. McGuigan (S.R.I.) is general chairman for the symposium, which is being held "to supplement the numerous strictly technical meetings held recently by giving attention to the basic concepts of automation, its characteristics, and to the broad view of how automation affects business and society."

Among those scheduled to speak are L. M. K. Boelter (University of California, Los Angeles), who will review the growth of automation, and Dean A. Wooldridge (Ramo-Wooldridge Corp.) who will discuss "The outlook for automation." These speakers will attempt to define what is meant by "automation," and to answer the questions: What is it? How did it arise? Where do we stand now? Where is it heading?—and other related questions.

Opportunities and problems in various industries will be dealt with in another session. Case histories of the uses of automatic production in selected industries will be discussed, and techniques and methods that may be transferable from industry to industry will be stressed.

■ The International Union of Theoretical and Applied Mechanics has announced a provisional program for the Colloquium on Deformation and Flow of Solids that is to take place in Madrid, Spain, 26–30 Sept. Participants include Cottrell (Great Britain), "Dislocation in crystals"; P. G. Hodge (U.S.), "Theory of ideal plasticity"; A. Seeger (Germany), "Neuere mathematische Erfolge und Ergebnisse zur Krystallplastizität"; Tessier du Cros (France), "Rôle des dislocations dans les déformations plastiques des métaux polycristallins"; Charles Crussard (France), "Le mécanisme de rupture des métaux"; Frank (Great Britain), "Genesis of dislocation in crystals grown from the melt"; Bernard Jaoul (France), "Influence des joints intergranulaires sur l'écroutissage des métaux"; E. H. Lee (U.S.), "Wave propagation in anelastic materials"; Leibfried (Germany), "Versetzungen und Gitterstruktur"; J. R. Low (U.S.), "Dislocations" (exact title unknown); N. F. Mott (Great Britain), "Dislocation models for plastic flow and work-hardening"; Velasco de Pando (Spain), "A new theory of plasticity"; Stüssi (Switzerland), "Ergebnisse und Deutung einiger Versuche zur Plasti-

zitätstheorie"; H. Kauderer (Germany); Treloar (Great Britain); F. Schultze-Grunow (Germany), "Das Widerstandsgesetz rheologischer Flüssigkeiten"; M. A. Biot (U.S.), "Variational and Lagrangian methods in visco-elasticity"; Henri Le Boiteux (France), "Viscosité et déformation irréversible"; F. K. G. Odqvist (Sweden), "Engineering theories of metallic creep"; M. Reiner (Israel); H. Arveste (U.S.); M. Plesset (U.S.); E. Volterra (U.S.).

■ The section of biophysics and biophysical research of the Mayo Clinic, Rochester, Minn., invites participation in a Symposium on the Biologic Effects of Microwaves that is to take place at the Mayo Foundation House, 23–24 Sept. Since microwave diathermy is a generally accepted method for therapy and since the electromagnetic fields generated by radar equipment are becoming more and more intense, it is important to consider more seriously the physiologic and pathologic effects of microwaves. With this in mind, Fred G. Hirsch (Sandia Corp., Sandia Base, Albuquerque, N.M.) suggested that a symposium on the physiologic and pathologic effects of microwaves be held at the Mayo Clinic, where microwave diathermy was introduced to the medical profession.

The value of such a symposium depends on an assembly of scientists who can contribute collectively to all phases of the field of microwaves. It is hoped that physicists, radar experts, electronic engineers, biophysicists, doctors of medicine, members of the armed forces, and representatives from industrial organizations will attend the conference.

■ An international Conference on Solar Energy—the Scientific Basis will take place at the University of Arizona, Tucson, 31 Oct.–1 Nov. as a prelude to the World Symposium on Applied Solar Energy to be held in Phoenix, Ariz., 2–4 Nov. Both meetings will be jointly sponsored by the Association for Applied Solar Energy, Stanford Research Institute, and the University of Arizona.

Scientists from many countries are expected to attend the Tucson conference to exchange ideas on fundamental principles involved in the application of solar energy. They will then move on to Phoenix to discuss the technologic aspects of the practical utilization of solar energy with world-wide representatives of industry, agriculture, finance, and education.

One of the major objectives of the meeting at the University of Arizona will be to assist investigators in charting the direction of future research. The conference will permit free discussion of the scientific bases on which the utilization of solar energy is founded. Following a

general session, three sections will convene to consider thermal, photochemical, and electric processes for converting the sun's energy to man's use.

Richard N. Thomas (Harvard College Observatory) will open the general session in Tucson with a discussion of the "Features of solar energy as imposed by the physics of the sun"; Sigmund Fritz (U.S. Weather Bureau) will describe the geographic distribution of solar energy, with special reference to systematic programs of observation; and Farrington Daniels (University of Wisconsin) will review the principles and problems of research in the utilization of solar energy.

Three special sessions will be held concurrently on the afternoon of 31 Oct. and the morning of 1 Nov. Everett D. Howe (University of California, Berkeley) will serve as chairman of the section on thermal processes.

Cochairman of the section on photochemical processes will be C. S. French and H. W. Milner (Stanford, Calif., laboratory, Carnegie Institution of Washington). In a discussion of large-scale algae culture, Milner will lead a session on relevant aspects of algal physiology, and French will chair a session on practical considerations of algae culture.

A session on photochemistry of the higher plants and nonbiological systems is also scheduled; the chairman will be announced later. A third section of the university conference will deal with electric processes, under the chairmanship of G. L. Pearson (Bell Telephone Laboratories, Murray Hill, N.J.).

Foreign participants include Felix Trombe (Laboratoire de l'Energie Solaire, Paris); R. N. Morse (Commonwealth Scientific and Industrial Research Organization, Australia); Hiroshi Tamaya (Tokugawa Institute for Biological Research, Tokyo); Harold Heywood (University of London); and Austin Whillier (South African Council for Scientific and Industrial Research).

The university meeting will conclude with luncheon on 1 Nov. Conference members will go to Phoenix by chartered bus that afternoon for the 3-day program of the world symposium.

Society Elections

■ American Association of Scientific Workers: pres. and representative to the AAAS council, Harry Grundfest, Columbia University; sec., Robert J. Rutman, University of Pennsylvania; treas., Leland Taylor, University of West Virginia. The vice presidents are Hans Blumenfeld, Toronto, Canada; Kirtley Mather, Harvard University; Melba Phillips, New York; Theodor Rosebury, Washington University (St. Louis); and Bernard Schaar, Chicago, Ill.

■ Society for Industrial Microbiology: pres., H. B. Woodruff, Merck and Co., Inc., Rahway, N.J.; v. pres., Glenn A. Greathouse, Orlando Research, Inc., Orlando, Fla.; sec.-treas. and representative to the AAAS council, C. L. Porter, Purdue University, Lafayette, Ind.

■ Societate del Spectroscopistas Molecular: pres., Jerome M. Dowling, 2505 Haymond St., River Grove, Ill.; v. pres., Joseph G. Barredo, University of Chicago; sec.-treas., Ann Palm, 5840 S. Cornell Ave., Chicago, Ill.

■ American Society of Mammalogists: pres., William B. Davis, Texas A. & M. College; cor. sec., George C. Rinker, University of Michigan; rec. sec., Randolph L. Peterson, Royal Ontario Museum of Zoology, Toronto; treas., Caroline A. Heppenstall, Carnegie Museum, Pittsburgh, Pa. The vice presidents are Robert T. Orr, California Academy of Sciences, Golden Gate Park, San Francisco, and Stephen D. Durrant, University of Utah.

■ AAAS, Lancaster Branch: chairman, James M. Darlington, Franklin and Marshall College; v. chairman, Robert L. Moore, Raybestos-Manhattan, Inc., Manheim, Pa.; sec., John L. Byerly, Lancaster Country Day School; treas., Michael A. Lewis, Franklin and Marshall College.

Forthcoming Events

September

5-9. American Inst. of Biological Sciences, Michigan State Univ., East Lansing, Mich. (H. T. Cox, AIBS, 2000 P St., NW, Washington 6.)

The following 24 societies will hold their meetings along with the AIBS during the same week at East Lansing, Mich.

American Bryological Soc. (L. J. Gier, Dept. of Biology, Wm. Jewell College, Liberty, Mo.)

American Fern Soc. (M. E. Faust, 501 University Pl., Syracuse 10, N.Y.)

American Microscopical Soc. (C. J. D. Brown, Dept. of Zoology and Entomology, Montana State College, Bozeman.)

American Soc. for Horticultural Science. (F. S. Howlett, Ohio Agr. Exptl. Sta., Wooster.)

American Soc. of Human Genetics. (D. C. Rife, Ohio State Univ., Columbus.)

American Soc. of Limnology and Oceanography. (B. H. Ketchum, Woods Hole Oceanographic Inst., Woods Hole, Mass.)

American Soc. of Naturalists. (W. P. Spencer, Dept. of Genetics, Univ. of Texas, Austin 12.)

American Soc. of Plant Physiologists. (J. F. Stanfield, Dept. of Botany, Miami Univ., Oxford, Ohio.)

American Soc. of Plant Taxonomists. (R. C. Rollins, Gray Herbarium, Harvard Univ., Cambridge 38, Mass.)

American Soc. of Zoologists. (R. C. Kempton, Dept. of Zoology, Vassar College, Poughkeepsie, N.Y.)

Beta Beta Beta. (B. R. Weimer, Bethany College, Bethany, W.Va.)

Biometric Soc. (C. I. Bliss, Box 1106, New Haven 4, Conn.)

Botanical Soc. of America. (H. C. Bold, Dept. of Biology, Vanderbilt Univ., Nashville, Tenn.)

Ecological Soc. of America. (J. F. Reed, Dept. of Botany, Univ. of Wyoming, Laramie.)

Genetics Soc. of America. (C. P. Oliver, Dept. of Zoology, Univ. of Texas, Austin.)

Mycological Soc. of America. (E. S. Beneke, Botany and Plant Pathology Dept., Michigan State Univ., East Lansing.)

National Assoc. of Biology Teachers. (P. V. Webster, Bryan City Schools, Bryan, Ohio.)

Nature Conservancy. (G. B. Fell, 4200 22 St., NE, Washington 18.)

Phycological Soc. (P. C. Silva, Dept. of Botany, Univ. of Illinois, Urbana.)

Potato Assoc. of America. (R. W. Hougas, Dept. of Genetics, Univ. of Wisconsin, Madison 6.)

Soc. for Industrial Microbiology. (C. L. Porter, Dept. of Biological Sciences, Purdue Univ., West Lafayette, Ind.)

Soc. of Protozoologists. (N. D. Levine, College of Veterinary Medicine, Univ. of Illinois, Urbana.)

Soc. for the Study of Evolution. (H. Lewis, Dept. of Botany, Univ. of California, Los Angeles 24.)

Soc. of Systematic Zoologists. (R. E. Blackwelder, 3728 Second St. South, Arlington 4, Va.)

5-9. Econometric Soc., Ann Arbor, Mich. (R. Ruggles, Box 1264, Yale Station, New Haven, Conn.)

5-10. World Cong. of Anaesthesiologists, Scheveningen, Netherlands. (W. A. Fentener van Vlissingen, WCA, Bilthoven, Netherlands.)

6-11. American Physiological Soc., Boston, Mass. (M. O. Lee, APS, 9650 Wisconsin Ave., Washington 14.)

6-16. Chicago Inst. for Hospital Administrators, 23rd, Chicago, Ill. (American College of Hospital Administrators, 620 N. Michigan Ave., Chicago 11.)

7-9. American Political Science Assoc., Boulder, Colo. (E. M. Kirkpatrick, 1785 Massachusetts Ave., NW, Washington 6.)

7-9. American Soc. of Photogrammetry, Los Angeles, Calif. (C. E. Palmer, 1000 11 St., NW, Washington 1.)

7-9. International Symposium on Arteriosclerosis, Minneapolis, Minn. (American Heart Assoc., 44 E. 23 St., New York 10.)

9-10. Soc. of General Physiologists, Woods Hole, Mass. (J. B. Buck, NIH, Bethesda 14, Md.)

9-10. Symposium on Electroluminescence and Photoconduction in Inorganic Phosphors, Brooklyn, N.Y. (J. J. Dropkin, Polytechnic Inst. of Brooklyn, Brooklyn 1.)

9-12. Sigma Delta Epsilon, Minneapolis, Minn. (Mary Gojdic, Barat College, Lake Forest, Ill.)

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(Continued from page 254)

10. International Conf. of Medical and Reference Librarians, Brussels, Belgium. (Miss C. de Looze, Oeuvre Nationale Belge de Defense contre la Tuberculose, 56, rue de la Concorde, Bruxelles.)

10-11. Soc. for Social Responsibility in Science, annual, Swarthmore, Pa. (J. Engelberg, 4715 Baltimore Ave., Philadelphia 43, Pa.)

10-15. International Cong. on Cosmic Radiation, Mexico, D.F., Mexico. (H. A. Barton, IUPAP, 57 E. 55 St., New York 22.)

11-16. American Chemical Soc., Minneapolis, Minn. (A. H. Emery, 1155 16 St., NW, Washington 6.)

11-16. Laurentian Hormone Conf. AAAS, annual, Estes Park, Colo. (Committee on Arrangements, 222 Maple Ave., Shrewsbury, Mass.)

11-18. International Cong. of Criminology, London, Eng. (State Univ. of New York, College of Medicine at New York City, 469 Clarkson Ave., Brooklyn 3.)

11-18. International Cong. of Librarianship and Documentation, Brussels, Belgium. (M. A. Baby, 8, rue de Haguenau, Strasbourg, France.)

12-13. Meteorological Soc., 18th, Albuquerque, N.M. (J. A. Russell, Dept. of Astronomy, Univ. of Southern California, Los Angeles 7.)

12-13. Pi Gamma Mu National Con-

vention, Allerton Park, Ill. (E. B. Urquhart, 1719 Ames St., Winfield, Kan.)

12-14. Soil Conservation Soc. of America, Green Lake, Wis. (H. W. Pritchard, Paramount Bldg., Des Moines, Ia.)

12-15. International College of Surgeons, 20th annual, Philadelphia, Pa. (K. A. Meyer, 1516 Lake Shore Dr., Chicago 10, Ill.)

12-16. Illuminating Engineering Soc., annual, Cleveland, Ohio. (A. D. Hinckley, 1860 Broadway, New York 23.)

12-16. Instrument Soc. of America, 10th annual, Los Angeles, Calif. (Fred Tabery, 3443 S. Hill St., Los Angeles.)

13-15. American Meteorological Soc., Asbury Park, N.J. (K. C. Spengler, 3 Joy St., Boston 8, Mass.)

14-16. American Assoc. of Clinical Chemists, 7th annual, Minneapolis, Minn. (M. M. Friedman, Lebanon Hospital, New York 57.)

14-16. Assoc. for Computing Machinery, annual, Philadelphia, Pa. (J. P. Nash, Digital Computer Lab., Univ. of Illinois, Urbana.)

15-16. Corrosion Symposium, Montreal, Canada. (Chemical Inst. of Canada, 18 Rideau St., Ottawa 2.)

15-17. International Soc. for the Study of Biological Rhythm, 5th conf., Stockholm, Sweden. (T. Petré, Karolinska Institutet, Stockholm 60.)

16-17. American Psychiatric Assoc. Midwest Regional Research Conf., Gales-

burg, Ill. (L. H. Rudy, Galesburg State Research Hospital, Galesburg.)

16-17. Calorimetry Conf., 10th annual, Minneapolis, Minn. (E. F. Westrum, Jr., Dept. of Chemistry, Univ. of Michigan, Ann Arbor.)

17-21. American College of Hospital Administrators, 21st annual, Atlantic City, N.J. (D. Conley, ACHA, 620 N. Michigan Ave., Chicago 11, Ill.)

19-23. Fédération Internationale Pharmaceutique, 16th general assembly, London, Eng. (D. F. Lewis, Secy., Organizing Committee, FIP, 17 Bloomsbury Sq., London W.C.1.)

20-23. American Roentgen Ray Soc., Chicago, Ill. (B. R. Young, Germantown Hospital, Philadelphia 44, Pa.)

20-26. World Medical Assoc., 2nd congress, Vienna, Austria. (L. H. Bauer, 345 E. 46 St., New York 17.)

22-23. Symposium on the Less Common Metals, London, Eng. (W. J. Felton, Institution of Mining and Metallurgy, Salisbury House, London, E.C.2.)

23-24. Symposium on the Biologic Effects of Microwaves, Rochester, Minn. (J. F. Herrick, Section of Biophysics, Mayo Clinic, Rochester.)

25-28. American Inst. of Chemical Engineers, Lake Placid, N.Y. (F. J. Van Antwerpen, AICE, 25 W. 45 St., New York.)

(See issue of 15 July for more
comprehensive listings)