

Meetings and Societies

Radiation Research

The fifth annual meeting of the Radiation Research Society was held at the Hotel Sheraton in Rochester, New York, 13–15 May 1957. It was arranged by a committee headed by H. A. Blair (University of Rochester). The number of registrants was 312.

The program was arranged by a committee headed by Howard J. Curtis, (Brookhaven National Laboratory). There was one symposium on "Radiation chemistry," one on "Radiation genetics," and one on "General radiobiology." These were attended by all members of the meetings. The other sessions consisted of 148 short papers on radiation biology, chemistry, and physics.

Charlotte Auerbach (University of Edinburgh), the principal invited lecturer, discussed "The action of mutagenic chemicals." Henry S. Kaplan (Stanford University School of Medicine) delivered the presidential address at the annual banquet, on "Radiation research and the future of radiotherapy."

New officers were elected as follows: Howard J. Curtis, president; Milton Burton (University of Notre Dame), vice-president and president-elect; E. L. Powers (Argonne National Laboratory), secretary-treasurer.

In cooperation with the National Academy of Sciences–National Research Council, the Radiation Research Society is sponsoring the International Congress of Radiation Research at Burlington, Vermont, 10–16 Aug. 1958. Its sixth annual meeting will be held at that time.

The society has demonstrated steady growth during its brief life. There are now 657 members, including 57 who were elected to membership at the Rochester meeting. The journal *Radiation Research*, sponsored by the society and published by Academic Press, Inc., is now publishing its sixth volume. There are two volumes a year.

Information concerning the society may be obtained from E. L. Powers, Secretary-Treasurer, Radiation Research Society, Argonne National Laboratory, Box 299, Lemont, Illinois.

E. L. POWERS

Argonne National Laboratory,
Lemont, Illinois

Physics Teachers

The American Association of Physics Teachers met in Schenectady, N.Y., 20–22 June, as guests of Union College and of the Research Laboratory of the General Electric Company.

The first morning session, held at the Research Laboratory, comprised a G.E. film on crystal growth and several short papers on specific problems of teaching. Leo Nedelsky of Chicago, in his invited paper on "Measuring our successes," spoke on the philosophy and implementation of tests and examinations. He suggested three noncorrelative types of testing questions: (i) those dealing with questions discussed in the textbook and classroom, (ii) those showing ability to apply the methods of science to cases not considered before, and (iii) those showing the ability to read and analyze. After a welcome from C. G. Suits, director of General Electric research, the afternoon session included three excellent invited papers by members of the G.E. staff: on ferromagnetism by C. P. Bean, on crystal dislocations by F. C. Fisher, and on semiconductors by A. G. Tweet.

The second day's meetings were held at Union College. Two of the high-school films by Harvey White were shown; the photography and speech reproduction were excellent, but the college teacher was sometimes surprised at the details omitted in this presentation intended for secondary schools. President Davidson of Union College welcomed the group by sketching the history of the college from its founding in 1795 in terms of the American Revolution, the French Revolution, and the scientific industrial revolution of the early 19th century (when Nott was president not only of Union, but, for a few years, of the Rensselaer Polytechnic Institute, 15 miles distant) to the present "educational revolution," in which both the amount of knowledge and the number of students are increasing "explosively."

Harold P. Knauss of the University of Connecticut reported on the Conference on Laboratory Instruction in General Physics, held a few days previously at Storrs, Conn. The problem is to make the elementary laboratory more stimulating. It was urged that the laboratory work be "free" rather than conventional,

in particular that the work be arranged in such a way that the students do not lose the pleasure of determining something unknown and that, under subtle guidance, new laboratory procedures be initiated and evaluated. There should be reports in the form of a laboratory diary, which should be carefully graded, and there should be a performance examination at the end of the course. This subject of the best method of directing laboratory work is provoking much discussion and thought among physics teachers at present.

Following this, Jerrold R. Zacharias reported on the Physical Science Study Committee, which is trying to improve the teaching of physics in the high schools. For this, a set of films is being developed at Massachusetts Institute of Technology, and demonstrations are being planned which can be built by students or teachers for less than \$10. The present status of "parity" was discussed by C. D. Swartz, of Union, in the afternoon.

At the banquet at the Research Laboratory, Irving Langmuir spoke on "Motivations for science careers," basing his points largely on autobiographic data.

At the final session, D. S. Ainslie of Toronto, in showing several striking experiments in electrostatics, noted the superior qualities of polystyrene and lucite over wax and glass in getting charges, even in damp weather. R. J. Seeger raised a good many points in his provocative discussion "On teaching thermophysics." William McKinley spoke on the complex subject of the "Search for a fundamental length in physics" for atomic quantities.

MILDRED ALLEN

Mount Holyoke College,
South Hadley, Massachusetts

British Association for the Advancement of Science

The 119th annual meeting of the British Association for the Advancement of Science will be held in Dublin, 4–11 Sept. Previous meetings of the association in Dublin were held in 1835, 1878, and 1908. The president this year is P. M. S. Blackett, and he has chosen the title "Technology and world advancement" for his presidential address, which will be delivered in the library of the Royal Dublin Society on the evening of 4 Sept.

T. S. Wheeler, head of the department of chemistry, University College, Dublin, is chairman, and G. F. Mitchell, registrar of Trinity College, Dublin, is vice chairman of the Local Organising Committee.

The scientific program this year will

have an agricultural slant, which it is hoped will prove of particular interest in Ireland. The president of the Agricultural Section is Sir James Turner, president of the National Farmers' Union and an outstanding public figure in the agricultural world. There will be a major exhibition of agricultural equipment and methods in the Great Hall of University College, Dublin. There will also be a number of papers on specifically Irish topics.

In addition, two special evening lectures will be delivered in the library of the Royal Dublin Society: the first will be given on 5 Sept. by S. P. O'Riordain, a distinguished Irish archeologist, on the subject of "Tara." The second will be given on 6 Sept. by H. J. Bhabha, secretary to the Government of India Department of Atomic Research and director of the Tata Institute of Fundamental Research in Bombay.

Fluid Flow through Porous Media

Fluid Flow through Porous Media is the subject of a conference to be held 23-24 Sept. on the Norman campus of the University of Oklahoma under the sponsorship of the School of Petroleum Engineering. The purpose of the conference is to bring together a small group of specialists interested in discussing theories of single and multiphase porous media flow. In addition to prepared papers, free discussion will be emphasized. There will be no preprints, reprints, or other publication of papers or discussions.

P. C. Carman of Pretoria, South Africa, will be the guest of honor and featured speaker. He is chief research officer of the National Chemical Research Laboratory, South African Council for Scientific and Industrial Research. Carman is best known for his modifications of the Kozeny equation and his recent book, *Flow of Gases through Porous Media*.

World Aeronautical Sciences

The International Council of the Aeronautical Sciences was formed on 30 May, when 16 representatives of 10 nations met in Paris as a provisional council. The Institute of the Aeronautical Sciences, with headquarters in New York, will act as the permanent secretariat of the ICAS and provide the operating staff. The first international congress of the new organization is scheduled for September 1958 in Madrid, Spain. Subsequent congresses will take place in other countries biennially.

Funds toward support of the ICAS are being made available through the insti-

tute from a substantial donation by Harry Guggenheim, an IAS honorary fellow. In his honor, the ICAS has established the Daniel and Florence Guggenheim International Memorial lecture, which will be presented by one of the world's outstanding aeronautical scientists at each international congress. Every country in the world that has any organized society dedicated to the advancement of the aeronautical sciences will be invited to participate in the ICAS without regard to military or political interest.

Theodore von Karman, chairman of the advisory group for aeronautical research and development of NATO, was elected honorary president and permanent member of the council. Maurice Roy, director of the office National d'Etudes et de Recherches Aeronautiques, France, was elected chairman of the provisional council's executive committee. The 16 delegates at the ICAS organization meeting who constitute the provisional council are John J. Green (Canada); G. de Faget, J. Jarry, and Maurice Roy (France); Hermann Blenk (Germany); A. M. Ballantyne and E. T. Jones (England); A. J. von der Maas (the Netherlands); G. Gabrielli (Italy); Antonio Perez-Marin (Spain); Bo K. O. Lundberg (Sweden); R. Greinacher (Switzerland); Hugh L. Dryden, S. Paul Johnston, Theodore von Karman, and Frank L. Wattendorf (United States).

Child Psychology

The 35th anniversary of the Child Guidance Association of Worcester, Mass., will be observed 18-21 Sept. with a public lecture by Anna Freud, director of the Hampstead Child-Therapy Course and Clinic, London, England, and a 2-day symposium on child psychology. Miss Freud, the youngest daughter of the late Sigmund Freud, is making her first visit to the United States since 1950 when she spoke at Clark University. It was there in 1909 that her father gave his only lecture in America and introduced his method of relieving mental disorder by the study of the subconscious emotional life of the patient. Following the symposium, Miss Freud will be the honored guest at a convocation in which Clark University will accept a bronze statue of her father, the gift of the American Psychoanalytic Association.

New York Nuclear Conferences

The American Nuclear Society and the Atomic Industrial Forum have announced that Sir Edwin Plowden, chairman of the United Kingdom Atomic Energy Authority, and Lewis L. Strauss, chairman of the U.S. Atomic Energy

Commission, will address an all-conference banquet at the Waldorf-Astoria Hotel in New York on the evening of 29 Oct. Each official will describe his country's program for development of atomic energy for constructive purposes.

The banquet is part of a week-long schedule of atomic activities in New York, which includes concurrent conferences of the forum and the ANS, 28-30 Oct., and the 1957 Trade Fair of the Atomic Industry at the New York Coliseum, 28-31 Oct. Other concurrent activities are as follows: the second annual conference on "Careers in nuclear science and engineering," New York Coliseum, 30 Oct., and the first major, unclassified conference on reactor safety, cosponsored by AIF, ANS, and the U.S. Atomic Energy Commission, at the Coliseum, 31 Oct.

Forthcoming Events

September

23-24. Fluid Flow in Porous Media, Conf., Norman, Okla. (C. G. Dodd, Petroleum Engineering Dept., Univ. of Oklahoma, Norman.)

23-25. American Soc. of Mechanical Engineers, fall, Hartford, Conn. (C. E. Davies, ASME, 29 W 39 St., New York 18.)

23-27. International Soc. of Bioclimatology and Biometeorology, Vienna, Austria. (S. W. Tromp, Hofbrouckerlaan 54, Oegstgeest-Leiden, Holland.)

24-25. Industrial Electronics Conf., Chicago, Ill. (E. A. Roberts, Union Thermoelectric Corp., 2001 Greenleaf St., Evanston, Ill.)

25-27. Mississippi Valley Medical Soc., annual, St. Louis, Mo. (H. Swanberg, 510 Maine St., Quincy, Ill.)

28-30. American College of Hospital Administrators, 23rd annual, Atlantic City, N.J. (D. Conley, ACHA, 620 N. Michigan Ave., Chicago 11, Ill.)

29-5. World Medical Assoc., Istanbul, Turkey. (L. H. Bauer, 10 Columbus Circle, New York 19.)

30-2. American Oil Chemists' Soc., fall, Cincinnati, Ohio. (Miss L. R. Hawkins, AOCS, 35 E. Wacker Dr., Chicago 1, Ill.)

30-8. International Council for the Exploration of the Sea, 45th annual, Bergen, Norway. (A. Fridriksson, ICES, Charlottenlund Slot, Charlottenlund, Denmark.)

October

1-4. American Roentgen Ray Soc., annual, Washington, D.C. (B. R. Young, Germantown Hospital, Philadelphia 44, Pa.)

2-4. American Soc. of Photogrammetry, semi-annual, St. Louis, Mo. (C. E. Palmer, ASP, 1515 Massachusetts Ave., NW, Washington 5.)

2-4. Antibiotics, 5th annual symp., Washington, D.C. (H. Welch, Div. of Antibiotics, Food and Drug Administration, U.S. Dept. of Health, Education, and Welfare, Washington 25.)

4. Role of Agriculture in Future Society, 75th anniversary symp., Geneva, N.Y. (New York State Agricultural Experiment Station, Cornell Univ., Geneva.)

4-6. Indiana Geologic Field Conf., 9th, Mitchell, Ind. (H. H. Gray, Indiana Field Conf., Dept. of Conservation, Geological Survey, Bloomington, Ind.)

6-10. Electrochemical Soc., fall, Buffalo, N.Y. (H. B. Linford, 1860 Broadway, New York 23.)

7-9. National Electronics Conf., Chicago, Ill. (J. S. Powers, NEC, 84 E. Randolph St., Chicago 1.)

7-11. American Inst. of Electrical Engineers, fall general, Chicago, Ill. (N. S. Hibshman, AIEE, 33 W. 39 St., New York 18.)

7-11. Research Contributions to Clinical Practice, New York Acad. of Medicine Postgraduate Week, New York. (Secretary, Postgraduate Week, New York Acad. of Medicine, 2 E. 103 St., New York 29.)

8-10. International Assoc. of Milk and Food Sanitarians, annual, Louisville, Ky.

(H. H. Wilkowske, Dairy Science Dept., Univ. of Florida, Gainesville.)

8-10. Upper Air Conf., American Meteorological Soc., Omaha, Nebr. (K. C. Spengler, AMS, 3 Joy St., Boston 8, Mass.)

9-11. High Vacuum Technology, 4th annual symp., Boston, Mass. (Committee on Vacuum Techniques, P.O. Box 1282, Boston 9.)

9-11. Society for Experimental Stress Analysis, fall, San Diego, Calif. (W. M. Murray, SESA, P.O. Box 168, Cambridge 39, Mass.)

9-12. Tau Beta Pi Assoc., annual, Madison and Milwaukee, Wis. (R. H. Nagel, Univ. of Tennessee, Knoxville.)

10-11. Noise Abatement Symp., 8th annual, Chicago, Ill. (J. J. Kowal, Armour Research Foundation, 10 W. 35 St., Chicago 16.)

10-13. Angiology, 3rd internatl. cong., Atlantic City, N.J. (H. Haimovici, 105 E. 90 St., New York 28.)

11-13. Iroquois Research, 11th conf.,

Red House, N.Y. (W. N. Fenton, New York State Museum, Albany 1.)

12. Fat and Diabetes Symposium, New York, N.Y. (T. Kingsley, New York Diabetes Assoc., 104 E. 40 St., New York 16.)

13-18. American Acad. of Ophthalmology and Otolaryngology, annual, Chicago, Ill. (W. L. Benedict, 100 First Avenue Bldg., Rochester, Minn.)

14-16. Association of Official Agricultural Chemists, 71st annual, Washington, D.C. (W. Horwitz, Box 540, Benjamin Franklin Station, Washington 4.)

14-18. American College of Surgeons, 43rd annual clinical cong., Atlantic City, N.J. (ACS, 40 E. Erie St., Chicago 11, Ill.)

14-18. American Soc. of Civil Engineers, New York, N.Y. (W. H. Wisely, ASCE, 33 W. 39 St., New York 18.)

14-18. International Industrial Development Conf., San Francisco, Calif. (E. S. Prentice, Stanford Research Inst., Menlo Park, Calif.)

16-23. Enzyme Chemistry, internatl. symp., Tokyo and Kyoto, Japan. (International Symp. on Enzyme Chemistry, Science Council of Japan, Ueno Park, Tokyo.)

17-18. American Ceramic Soc., 10th Pacific Coast mtg., San Francisco, Calif. (C. E. Pearce, ACS, 4055 N. High St., Columbus 14, Ohio.)

17-18. Industrial Hydraulics, natl. conf., Chicago, Ill. (Conference Secretary, Armour Research Foundation, 10 W. 35 St., Chicago 16.)

17-19. Indiana Acad. of Science, Greencastle. (H. Crull, Dept. of Mathematics, Butler Univ., Indianapolis 7, Ind.)

17-19. Optical Soc. of America, Columbus, Ohio. (S. S. Ballard, Visibility Lab., Scripps Institution of Oceanography, San Diego 52, Calif.)

18-19. National Soc. of Professional Engineers, Bismark, N.D. (P. H. Robbins, 2029 K St., NW, Washington 6.)

19-26. Social Work, 3rd Pan American cong., San Juan, Puerto Rico. (A. Porrata Dorla, Apartado 3271, San Juan.)

20-22. American College of Apothecaries, St. Louis, Mo. (R. E. Abrams, Hamilton Court, Chestnut and 39 St., Philadelphia, Pa.)

21. Air Pollution Symp., 2nd annual, Philadelphia, Pa. (A. D. Hollingsworth, Franklin Inst., Benjamin Franklin Parkway at 20th, Philadelphia 3.)

21-25. Medical Aspects of Workmen's Compensation, New York. (Office of Associate Dean, New York Univ. Post-Graduate Medical School, 550 First Ave., New York 16.)

21-26. Ultra High Frequency Circuits and Antennas, internatl. conf., Paris, France. (Congrès Circuits et Antennes Hyperfréquences, Société des Radioélectriciens, 10, Avenue Pierre-Larousse, Malakoff (Seine), France.)

22. American Soc. of Safety Engineers, annual, Chicago, Ill. (J. B. Johnson, ASSE, 425 N. Michigan Ave., Chicago 11.)

22-25. American Dietetic Assoc., annual, Miami, Fla. (Miss R. M. Yakel, ADA, 620 N. Michigan Ave., Chicago 11, Ill.)

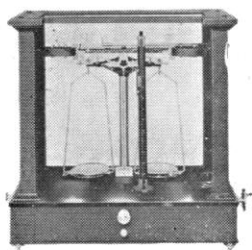
(See issue of 16 August for comprehensive list)

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