

Meetings and Societies

Mathematics Instruction

The second AAAS Conference on Mathematics Instruction was held in Washington in the AAAS board room, 13–14 May 1957. At the meeting of the Policy Committee for Mathematics that was held in Rochester, N.Y., in December 1956, the secretary of the committee, who had attended the first conference, reported that a great deal of useful information had been presented but that there had been insufficient time to formulate concrete plans for the needed further consideration of these various studies. Subsequently, at the request of the policy committee, the AAAS called the second conference, which was made possible by a grant from the Carnegie Corporation of New York. There were 24 participants, most of whom had attended the first conference as well. The presiding chairman was Dean W. L. Duren, Jr., of the University of Virginia.

The conference approved 19 motions, in the form of recommendations or resolutions. While all of the motions are of general interest to scientists, resolutions 1, 2, and 3 are addressed particularly to the departments of education of the states; 4, 5, and 6, to mathematicians; 7, 8, and 9, to the Policy Committee for Mathematics; 10, to the Mathematical Association of America (MAA); 11 and 12, to the National Council of Teachers of Mathematics (NCTM); 13 and 14, to the American Association for the Advancement of Science (AAAS); and the remainder, to the National Science Foundation (NSF). The resolutions and recommendations of the conference are as follows:

1) That this Conference call the attention of school authorities on state and local levels to the facts that there is at present widespread interest in the improvement of mathematical instruction and that there are significant programs of discussion, activity, and experimentation in the area of curricular revision in mathematics presently in progress; and that the Conference recommend that these interests and activities be recognized by the appointment of committees or study groups on the state and local levels to consider problems of curricular

revision, and especially to familiarize themselves and their constituents with the studies of significant programs, and to determine the applicability to the state or local situations of the findings and recommendations of these groups.

2) That this Conference recommend that states provide supervisory service for elementary and secondary mathematical programs by a person or persons of recognized competence in mathematics.

3) That this Conference request that the Director of the Science Teaching Improvement Program send resolutions 1 and 2 to state superintendents of education and also further publicize them in appropriate journals.

4) That this Conference recommend to college and university departments of mathematics that they offer courses planned for prospective and in-service elementary teachers, and that departments of mathematics seek the cooperation of the education departments of their colleges, to the end that such courses be required of elementary teachers.

5) In view of the current interest in the improvement of mathematics curriculums and the importance to this country of improved mathematical training in the schools, that this Conference urge that more mathematicians devote a fraction of their time, when so requested, to meeting with and assisting teachers who are planning and putting into effect such improved courses.

6) That this Conference call attention to the need for additional study, involving mathematicians, of mathematics programs grades 1 to 8.

7) That this Conference recommend that the Policy Committee for Mathematics consider the question of minimum certification requirements for teachers of mathematics.

8) That this Conference recommend that the Policy Committee for Mathematics prepare and distribute, in large numbers, two 1- or 2-page leaflets, one on careers in teaching mathematics and one on other careers in mathematics.

9) That this Conference refer to the Policy Committee for Mathematics the question of support for legislation to

build mathematics buildings in colleges and universities.

10) That this Conference recommend to the MAA that it take steps, in cooperation with NCTM, to extend the visiting lecturer program to high schools.

11) That this Conference refer to NCTM the question of preparing a guide for curriculum studies in mathematics, for the use of city and county school systems and state groups. The guide would point out ways in which curriculums in mathematics can be developed to meet current needs and take advantage of the national interest in the improvement of mathematics instruction at all levels.

12) That this Conference endorse the curriculum study of the NCTM.

13) Whereas significant efforts have been made to recruit students for such professions as engineering and to enroll [them] in courses in sciences and mathematics, and whereas such efforts have greatly increased the demand for instruction in mathematics, and whereas no comparable efforts have been made to recruit an adequate supply of qualified teachers of mathematics to offer such instruction, be it resolved that this Conference urge that the Science Teaching Improvement Program of the AAAS continue to undertake to secure funds and direction for a program to encourage students in junior and senior high schools and in colleges to enter the profession of the teaching of mathematics.

14) That this Conference recommend that AAAS sponsor a conference in which the mathematical organizations would meet with scientists and engineers to learn what mathematics courses would best support new science.

15) That this Conference recommend to NSF that the Science Faculty Fellowship Program be extended to the high-school level.

16) That this Conference recommend to the NSF that there be more summer institutes programmed for junior high school teachers; and that it publicize this recommendation among colleges which might hold such institutes.

17) That this Conference recommend that NSF consider follow-up of some summer institutes by consulting service; and that it instruct such institutes to try, when possible, to include two or more teachers from the same school system.

18) That this Conference go on record in favor of increasing the number of summer institutes for college teachers of mathematics.

19) That this Conference recommend that NSF consider experimental institutes in mathematics for elementary teachers.

JOHN R. MAYOR
*American Association for the
Advancement of Science*

Antibiotics

The fifth annual Symposium on Antibiotics will be held 2-4 Oct. at the Willard Hotel, Washington, D.C. It is sponsored by the Division of Antibiotics of the Food and Drug Administration, U.S. Department of Health, Education, and Welfare, with the journals *Antibiotics and Chemotherapy* and *Antibiotic Medicine and Clinical Therapy*.

There is no registration fee. Abstracts of no more than 200 words (five copies) must be submitted *no later than 19 Aug.* The abstract should explain briefly not only what was done in the study but the results obtained. The original manuscript and one copy must be submitted by 2 Sept. to Dr. Henry Welch, Division of Antibiotics, Food and Drug Administration, U.S. Department of Health, Education, and Welfare, Washington 25, D.C.

Nuclear Structure

An International Conference on Nuclear Structure devoted to the experimental and theoretical aspects of low-energy phenomena will take place at the Weizmann Institute of Science, Rehovoth, Israel, from 9 to 13 Sept., under the auspices of UNESCO and the International Union of Pure and Applied Physics. Sessions will consist of two or three lectures, followed by a 45-minute discussion. Those who expect to take part in the discussions have been requested to submit a résumé of their comments in advance. About 150 scientists from 15 different countries are expected to participate.

A 3-day tour of the country from 14 to 16 Sept. will follow the conclusion of the sessions. Inquiries may be addressed to the secretary of the conference, A. de-Shalit, Weizmann Institute, Rehovoth, Israel.

Geodesy and Geophysics

More than 1500 specialists in the earth sciences will gather in Toronto 3-14 Sept. to hold the 11th general assembly of the International Union of Geodesy and Geophysics. The main topic will be the International Geophysical Year (IGY). Delegates from 50 countries in all parts of the world will review the IGY opening and lay final plans for the vast joint enterprise.

The meeting in Toronto will bring together IUGG's seven international associations, whose interests cover nearly all aspects of the IGY. J. T. Wilson, head of the Geophysics Laboratory of the University of Toronto, is in charge of arrangements. He is also vice-president of the IUGG.

International Scientific Radio Union

Sixteen countries, exclusive of the United States, have already appointed a total of 141 delegates to attend the 12th general assembly of the International Scientific Radio Union, which will meet 22 Aug. to 5 Sept. in Boulder, Colo. Nine other countries, including the U.S.S.R., are still expected to name delegates. The number of U.S. delegates appointed so far totals 139. This closed meeting of radio scientists will be limited to approximately 500 delegates and observers.

Invited to the United States by the U.S. national committee of the union, the scientists will have as local hosts the Boulder Laboratories of the National Bureau of Standards, the University of Colorado, the High Altitude Observatory, and the city of Boulder. Kenneth A. Norton, chief of the NBS radio propagation engineering division, is chairman of local arrangements.

This cooperation in basic research is brought about largely through the efforts of the permanent International Scientific Radio Union commissions that conduct continuous studies in the major fields of radio research. The assemblies, which are held every 3 years with one of the member countries serving as host, allow representatives of the commissions to pool information on present radio studies and to outline over-all plans for future international research programs. This will be the first time since 1927 that the United States has been host to the assembly.

Society Organized for Biophysicists

The Biophysical Society was organized early this year to encourage biophysical research in three ways: by increasing communication among the highly diversified scientists working in this field, by furthering the training of biophysicists and by promoting the application of research techniques from physics to biological problems. More than 500 scientists from 200 institutions throughout the United States met in Columbus, Ohio, to discuss the problems, purposes, and desirability of founding a society that would protect and promote the interests of biophysicists. The society will attempt to define further the biophysical field and draw into it the engineering, medical, biological, and physics talent that should serve it.

Elected to lead the new society as chairman was Robley C. Williams of the University of California, Berkeley; Otto H. Schmitt, of the University of Minnesota, vice chairman; Ralph W. Stacy of Ohio State University, treasurer; and Samuel A. Talbot of Johns Hopkins School of Medicine, secretary. A 20-man

council also was named. Its members, in addition to the officers, include: E. C. Pollard, W. A. Rosenblith, F. D. Carlson, K. S. Cole, H. K. Hartline, M. A. Lauffer, C. Levinthal, E. Rabinowitch, N. R. Rashevsky, A. Rich, R. B. Roberts, F. O. Schmitt, A. K. Solomon, H. B. Steinbach, C. A. Tobias, and R. E. Zirkle.

Forthcoming Events

September

9-11. Electron Microscope Soc. of America, annual, Cambridge, Mass. (D. M. Teague, Chrysler Corp., Box 1118, Detroit 31, Mich.)

9-11. Quantitative Methods of Mammalian Cell Culture, 2nd annual, Denver, Colo. (Office of Graduate and Postgraduate Education, Univ. of Colorado Medical Center, Denver 20.)

9-13. Illuminating Engineering Soc., annual, Atlanta, Ga. (A. D. Hinckley, IES, 1860 Broadway, New York 23.)

9-13. Instrument Automation Conf., 12th annual, Cleveland, Ohio. (Instrument Soc. of America, 313 Sixth Ave., Pittsburgh, Pa.)

9-13. Neutron Interaction with Nuclei, internatl. conf. of IUPAP, New York. (W. W. Havens, Pupin Cyclotron Lab., Columbia Univ., 538 W. 120 St., New York 27.)

9-13. Society of Photographic Scientists and Engineers, annual, Asbury Park, N.J. (Society of Photographic Scientists and Engineers, Box 1609, Central Station, Washington, D.C.)

9-15. Macromolecular Chemistry, internatl. symp., IUPAC, Prague, Czechoslovakia. (Secretariat, ISMC, 5, Technická, Prague 6.)

9-20. Radio-Isotopes in Research, UNESCO conf., Paris, France. (UNESCO House, 19, avenue Kléber, Paris 16.)

10-13. Alaskan Science Conf., 8th, Anchorage. (C. J. Beers, U.S. Coast and Geodetic Survey, College, Alaska.)

10-13. American Statistical Assoc., annual, Atlantic City, N.J. (D. C. Riley, ASA, 1757 K St., NW, Washington 6.)

10-13. Biometric Soc., Eastern North American region, Atlantic City, N.J. (A. M. Dutton, Box 287, Sta. 3, Rochester, N.Y.)

10-13. Econometric Soc., Atlantic City, N.J. (R. Ruggles, Dept. of Economics, Yale Univ., New Haven, Conn.)

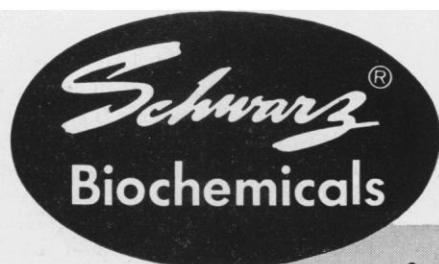
10-13. Institute of Mathematical Statistics, annual, Atlantic City, N.J. (G. E. Nicholson, Jr., Dept. of Statistics, Univ. of North Carolina, Chapel Hill.)

14-15. Minnesota Acad. of Science, Cedar Creek Forest. (M. R. Boudrye, 51 University Ave., St. Paul 3, Minn.)

15-18. American Inst. of Chemical Engineers, natl., Baltimore, Md. (F. J. Van Antwerpen, AIChE, 25 W. 45 St., New York 36.)

16-21. Orthopedic Surgery and Traumatology, 7th internatl. cong., Barcelona, Spain. (J. M. Vilardell, Avenida Jose Antonio 654, Barcelona.)

17-20. International Union of Pure and



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Applied Physics 9th general assembly, Rome, Italy. (P. Fleury, IUPAP, 3, boulevard Pasteur, Paris 15^e, France.)

17-24. Industrial Chemistry, 30th internatl. cong., Athens, Greece. (Committee of Organization, 30th internatl. Cong. of Industrial Chemistry, Rue Kaningos 10, Athens.)

18-20. Formation and Stabilization of Free Radicals, symp., Washington, D.C. (A. M. Bass, Free Radicals Research Section, National Bureau of Standards, Washington 25.)

18-21. Child Psychology Symp., Worcester, Mass. (D. Evans, News Bureau, Clark Univ., Worcester.)

18-21. International Mineral Dressing Cong., Stockholm, Sweden. (J. Hedlund, IMDC, Näckströmsgatan 1^{III}, Stockholm C.)

19-21. Office Dermatology, postgraduate conf., San Francisco, Calif. (Office of the Dean, Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15.)

22-28. Mesons and Recently Discovered Particles, colloquium, IUPAP, Venice, Italy. (A. Rostagni, Istituto di Fisica dell' Università, Via Marzolo 8, Padua, Italy.)

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.)

(See issue of 19 July for comprehensive list)