

Association Affairs

Preview of Programs at AAAS New York Meeting

Some of the programs to be presented at the 1960 AAAS meeting in New York are given here. Others will be announced in subsequent issues. Further information can be found by referring to the following articles which have appeared in previous issues of *Science*: "Preliminary announcement of the New York meeting" [131, 1616 (27 May 1960)]; "Additional program notes, hotel headquarters, and housing for the New York meeting" [132, 228 (22 July 1960)]. The meeting will be one of the largest in recent years.

Mathematics

Section A. Vice-presidential addresses: "Mappings on Sequence Spaces," by Gustav A. Hedlund, Yale University; "The Training of College Teachers of Mathematics and Science," by William L. Duren, Jr., University of Virginia. Symposium: "The Mathematics Course on 'Continental Classroom,'" 27 Dec.; William L. Duren, Jr., presiding. Papers will be presented on modern algebra (J. L. Kelly, University of California, Berkeley); probability and statistics (Frederick Mosteller, Harvard University); the teacher-education program (Julius H. Hlavaty, DeWitt Clinton High School); problems of the producer (Marvin Einhorn, National Broadcasting Company).

Section A is a cosponsor of the programs of the Society for Industrial and Applied Mathematics and the Association for Computing Machinery.

Society for Industrial and Applied Mathematics. Invited papers: "Mathematics Looks at New Problems," arranged by James H. Griesmer, IBM Research Center, who will preside; 28 Dec. Papers will be presented on applications of game theory to military strategy and tactics (Dean Gillette, Bell Telephone Laboratories); an application of graph theory to group dynamics (Frank Harary, University of Michigan); the role of mathematics in control systems (John E. Bertram, IBM Research Center).

Association for Computing Machinery. Invited papers: "Vistas in Digital Computing," arranged by a committee, J. H. Wegstein, National Bureau of

Standards, chairman, with W. F. Cahill, National Aeronautics and Space Administration, presiding; 29 Dec. Papers will be presented on the effect of adjusting parameter-estimates in decision models (Shiv Gupta, Case Institute); computers and information retrieval—progress and prospects (Ascher Opler, Computing Usage Company, Inc.); use of computers in biology and medicine (Robert S. Ledley, National Biomedical Research Foundation, Inc.).

American Mathematical Society. Cosponsor of a four-session symposium, "The Sciences in Communist China," arranged by a committee, Sidney H. Gould, American Mathematical Society, chairman, with George R. Harrison, Massachusetts Institute of Technology, presiding; 26 and 27 Dec. Part I, "Mathematics and the Physical Sciences," includes a paper on mathematics by Marshall Stone, University of Chicago.

Attention is also called to the following programs: a symposium, "Machine Processing in Education," Dec. 29, sponsored by Section Q—Education; a symposium, "Machine Methods in Biology," Dec. 30, sponsored by Section G—Botanical Sciences.

Physics

Section B. Interdisciplinary symposium, joint program of Sections B—Physics and D—Astronomy, cosponsored by the American Astronomical Society, the Division of Plasma Physics of the American Physical Society, and Sigma Pi Sigma: "Plasma—Fourth State of Matter," arranged by Stanley S. Ballard, University of Florida, with Lyman Spitzer, Jr., Princeton University, presiding; 28 Dec. Papers will be presented on the nature of a plasma (Melvin D. Gottlieb, Princeton University); instabilities in laboratory plasmas (Stirling A. Colgate, Lawrence Radiation Laboratory); radio noise from solar plasmas (Fred T. Haddock, University of Michigan Observatory); geomagnetic storms, aurorae, and radiation belts (Thomas Gold, Cornell University).

Panel, joint program of Sections B—Physics and M—Engineering: "The Place of Nuclear Engineering in the University Curriculum"; 30 Dec.

Physicists' luncheon and vice-presi-

dential address of Section B (in joint session with Sigma Pi Sigma) on "Basic Science in the NATO Family of Nations," by Frederick Seitz, University of Illinois; 30 Dec.; arranged by Lyle B. Borst, New York University.

American Astronautical Society. First annual Eastern regional meeting: Ross Fleisig, Sperry Gyroscope Company, program chairman. Presidential introduction and welcoming address by George R. Arthur. Symposium, cosponsored by the National Aeronautics and Space Administration: "Lunar Exploration"; 27 Dec.; Hugh L. Dryden, National Aeronautics and Space Administration, presiding. Papers will be presented on scientific objectives of lunar exploration (Robert Jastrow, National Aeronautics and Space Administration); distribution of interplanetary dust in cislunar space (S. F. Singer, University of Maryland); comparison of special perturbation methods in celestial mechanics with special application to lunar orbits (Samuel Pines, Republic Aviation Corporation).

Symposium: "Lunar Spacecraft Systems"; 27 Dec.; Robert Young, ACF Industries, Inc., presiding. Papers will be presented on a family of radioisotope-fueled auxiliary power supplies for lunar exploration (Justin L. Bloom, the Martin Company); extending the range of radar beacon tracking for lunar probes (Norman S. Greenberg, ACF Industries, Inc.); horizon trackers for lunar guidance and control systems (K. H. Kuhn, Sperry Gyroscope Company); lunar soft landing guidance sensors (Gordon Burton and Arthur Barabush, Raytheon Company).

Panel discussion: "Is There a Need for a Manned Space Laboratory?"; 27 Dec.; Alfred M. Mayo, National Aeronautics and Space Administration, moderator.

American Institute of Physics. Cosponsors of the four-session symposium, "The Sciences in Communist China," to be held 26 and 27 Dec. Part I, "Mathematics and the Physical Sciences," includes a paper on physics (Ta-You Wu, National Research Council, and Robert T. Beyer, Brown University) and a paper on geophysics of the solid earth (J. Tuzo Wilson, University of Toronto).

American Meteorological Society. Cosponsor of the symposium, "The Sciences in Communist China." Part II, "Meteorology and the Engineering Sciences," includes a paper on meteorology, hydrology, and oceanography by Malcolm Rigby, of *American Meteorological Society, Abstracts*.

Chemistry

Section C. Session for submitted papers, with the assistance of the New York Section, American Chemical So-

ciety, arranged by Seymour L. Meisel, Socony Mobil Oil Company, who will preside; 26 Dec.

Biochemistry and Organic Chemistry Symposium, with the assistance of the New York Section, American Chemical Society: "Mechanism of Action of Antitumor Agents," arranged by Charles C. Price, University of Pennsylvania, who will preside; 27 Dec. Part I: Papers will be presented on 6-mercaptopurine (M. Earl Balis, Sloan-Kettering Institute); azaserine (John M. Buchanan, Massachusetts Institute of Technology); folic acid antagonists (Charles A. Nichol, Roswell Park Memorial Institute). Part II: Papers will be presented on fluorinated pyrimidines (Charles Heidelberger, McArdle Memorial Laboratory); alkylating agents (Charles C. Price and Robert J. Rutman, University of Pennsylvania); cyclophosphamide (Orrie M. Friedman, Brandeis University).

A dinner for symposia chairmen, speakers, and guests will be held 27 Dec.

Polymer Chemistry Symposium, with the assistance of the New York Section, American Chemical Society: "Recent Advances in Polymer Chemistry," arranged by Charles G. Overberger, Polytechnic Institute of Brooklyn, who will preside; 29 Dec. Part I: papers will be presented on Diels-Alder polymers (J. M. Whelan, Union Carbide Plastics); kinetic investigation of the solution polymerization of propylene (Donald F. Hoeg, W. R. Grace and Company); aromatic polyethers (Charles C. Price); polyaromatics (James E. Mulvaney, Herward Vogel, Takayuki Otsu, Clause J. Abshire, M. Hasegawa, C. S. Marvel, University of Illinois). Part II, arranged by Robert Ullman, Polytechnic Institute of Brooklyn, who will preside; papers will be presented on high resolution nuclear magnetic resonance spectroscopy of polymers (F. A. Bovey, Minnesota Mining and Manufacturing Company); the stretching of crystalline polymers (R. S. Stein, University of Massachusetts); some studies of the secondary structures of ribonucleic acid (J. Fresco, Princeton University); polymerization in the crystalline state (Herbert Morawetz, Polytechnic Institute of Brooklyn).

Inorganic Chemistry Symposium, with the assistance of the New York Section, American Chemical Society: "Synthetic Zeolites," arranged by George T. Kerr, Socony Mobil Oil Company, who will preside; 29 Dec. Papers will be presented on electrical conductivity of synthetic zeolites (Dennis N. Stamires, the Linde Company); crystal structures of Ca-H₂O-chabazite, dry Ca-chabazite, and Ca-Cl₂-chabazite (Joseph V. Smith, University of Chi-

cago); continuous and discontinuous changes in zeolite structure (Rustum Roy, Pennsylvania State University); kinetics of crystal growth of zeolite A (George T. Kerr).

Inorganic Chemistry Symposium, with the assistance of the New York Section, American Chemical Society: "Reactions of Complexes," arranged by John C. Bailar, Jr., University of Illinois, who will preside; 30 Dec. Papers will be presented on substitution reactions of metal complexes (Fred Basolo, Northwestern University); mechanisms of racemization of complexes (Gordon Harris, University of Buffalo); catalytic racemization of complexes (W. Conard Fernelius, Koppers Company); reactions of coordinated ligands (Daryle H. Busch, Ohio State University).

American Association of Clinical Chemists. Contributed papers I, arranged by Harry Goldenberg, Hillside Hospital, with Julius J. Carr, Methodist Hospital of Brooklyn, moderator; 26 Dec. Contributed papers II, arranged by Harry Goldenberg, with Abraham Saifer, Isaac Albert Research Institute, moderator; 27 Dec.

Annual business meeting, New York-Metropolitan Section, AACC, with Jacob Kream, chairman; 26 Dec. The session will include discussion of activities at the International Congress of Clinical Chemistry in Edinburgh and at the joint meeting of the American and Canadian societies in Montreal.

Symposium: "Biochemical Applications of Gas Chromatography," arranged by Harry Goldenberg, Hillside Hospital, with Donald A. M. MacKay, Evans Research and Development Corporation, moderator; 27 Dec. Introductory remarks (Donald A. M. MacKay); presentation of papers on analysis of steroids (E. C. Horning, National Heart Institute, U.S. Public Health Service); analysis of bodily metabolites (E. O. A. Haahti and W. J. A. Vandenhuevel, U.S. Public Health Service); gas chromatography of solid organic compounds (W. D. Cooke, Cornell University).

The AACC dinner and reception will be held 27 Dec., with Albert E. Sobel, Jewish Hospital of Brooklyn, presiding.

American Chemical Society. Cosponsor of the four-session symposium, "The Sciences in Communist China," to be held 26 and 27 Dec. Part I, "Mathematics and the Physical Sciences," includes a paper on chemistry by Arthur Yu, Thiokol Chemical Corporation. Part II, "Meteorology and the Engineering Sciences," includes a paper on chemical engineering and metallurgical and mining engineering by L. C. Pan, Chemical Constructions Corporation.

Astronomy

Section D. Interdisciplinary symposium, joint program of Sections D—Astronomy and B—Physics, cosponsored by the American Astronomical Society, the Division of Plasma Physics of the American Physical Society, and Sigma Pi Sigma: "Plasma—Fourth State of Matter," arranged by Stanley S. Ballard, University of Florida, with Lyman Spitzer, Jr., Princeton University, presiding; 28 Dec. Papers will be presented on the nature of a plasma (Melvin D. Gottlieb, Princeton University); instabilities in laboratory plasmas (Stirling A. Colgate, Lawrence Radiation Laboratory); radio noise from solar plasmas (Fred T. Haddock, University of Michigan Observatory); geomagnetic storms, aurorae, and radiation belts (Thomas Gold, Cornell University).

Section D is cosponsor of the symposium of the American Geophysical Union, "The Impact of the Space Program on the Sciences," to be held 26 Dec. It is also cosponsoring the session of the National Science Teachers Association on "The New Astronomy," to be held 28 Dec. Ruth E. Cornell, Wilmington (Del.) Board of Education, will preside; Wesley S. Kroghdahl, University of Kentucky, will be the speaker. The session will include a panel discussion.

The vice-presidential address, "Problems in Future Telescope Design," will be given 29 Dec. by Ira S. Bowen, Mount Wilson and Palomar Observatories, with Nicholas U. Mayall, Lick Observatory, presiding.

American Astronomical Society. Cosponsor of the AGU symposium, "The Impact of the Space Program on the Sciences," to be held 26 Dec. Council meeting, parts I and II, 28 Dec. Sessions for contributed papers I and II, 29 Dec.; III and IV, 30 Dec. The Helen B. Warner Lecture, by Halton C. Arp, Mount Wilson and Palomar Observatories, will be delivered on 29 Dec. The Society dinner will be held on 30 Dec.

All sessions of the American Astronomical Society are jointly sponsored by Section D—Astronomy.

Attention is called to the following programs: An address, "Recent Work on Meteorites," by Edward Anders, 1959 winner of the AAAS Newcomb Cleveland Prize, 26 Dec.; a paper on astronomy by Frank Bradshaw Wood, in part III ("Astronomy and the Biological and Medical Sciences") of the four-session symposium on the sciences in Communist China, 27 Dec.; the program of the American Astronomical Society, 27 Dec. (See Section B.)