

ment, in national and international affairs, and in what we choose to call our modern civilization, should likewise feel that participation in the work of the Association and in the activities of Section B is second only to support of the Institute in urgency and importance. The advancement of science involves shared responsibility that no scientist can shirk or safely ignore.

**Howard A. Meyerhoff**  
*Administrative Secretary, AAAS*

## Programs in Physics

### At AAAS St. Louis Meeting

The 119th Meeting of the American Association for the Advancement of Science (December 26-31, 1952), which will include programs of all 18 AAAS sections and some 45 participating societies, will have a number of sessions of particular interest to physicists. These are largely concentrated in the three days, December 29-31, and will be held in the Kiel Auditorium (principally) or in the nearby Hotel Jefferson.

#### MONDAY, DECEMBER 29

**I. Symposium: Nuclear Science in Industry; morning; Kiel 4C.** Joint program of AAAS Sections B, M, and P, and the Oak Ridge Institute of Nuclear Studies; arranged by Ralph T. Overman, Orins. William L. Davidson, Atomic Energy Commission, presiding.

1. Industrial Applications of Radioisotopes. Irving P. Orens, Newark College of Engineering.
2. Radioisotopes in Metallurgy. H. Rush Spedden, Union Carbide and Carbon Research Laboratories, Inc.
3. Problems of Industrial Nuclear Power. John Grebe, Dow Chemical Company.
4. Nuclear Power for Industry. C. R. McCullough, Monsanto Chemical Company.
5. Industrial Participation in the Nuclear Programs of the AEC. William L. Davidson.

**II. Luncheon; Oak Ridge Institute of Nuclear Studies; East Room, Hotel Jefferson** (advance reservation required).

**III. Symposium: Research Applications of Carbon<sup>14</sup>; afternoon; Kiel 4C.** Joint program of AAAS Section B and Oak Ridge Institute of Nuclear Studies; arranged by Ralph T. Overman, Orins. Paul C. Aebersold, Atomic Energy Commission, Oak Ridge, presiding.

1. Radiocarbon Dating. J. Laurence Kulp, Lamont Geological Observatory, Columbia University.
2. The Use of Carbon<sup>14</sup> in the Determination of Reaction Mechanisms in Organic Chemistry. John G. Burr, Oak Ridge National Laboratory.
3. Problems in the Use of Carbon<sup>14</sup> in Biochemistry. Sidney Udenfriend, National Institutes of Health.
4. Applications of Carbon<sup>14</sup> to Plant Physiological Chemistry and Studies of Photosynthesis. S. Aronoff, Iowa State College.

**IV. Physicists' Dinner and Vice Presidential Address of AAAS Section B; cosponsored by Sigma Pi Sigma; Ivory Room, Hotel Jefferson.** Edward O. Hulburt, toastmaster.

Address: The Human Value of Physical Science. Arthur H. Compton, Chancellor, Washington University.

#### TUESDAY, DECEMBER 30

**V. Symposium: Magnetic Resonance and its Applications; morning; Kiel 3B.** Program of AAAS Section B; arranged by Arthur L. Hughes, Department of Physics, Washington University, who is presiding.

1. Introduction to Magnetic Resonance. George E. Pake, Department of Physics, Washington University.
2. Applications of Nuclear Magnetic Resonance to Chemical Problems. L. H. Meyer, Department of Chemistry, University of Illinois.
3. Detection of Electron Paramagnetic Resonance. J. Townsend, Department of Physics, Washington University.
4. Paramagnetic Resonance of Free Radicals. Samuel I. Weissman, Department of Chemistry, Washington University.
5. Applications of Magnetic Resonance to Biological Problems. Barry Commoner, Department of Botany, Washington University.

**VI. General Session for Invited Papers in Geophysics; morning; Kiel B.** Joint Program of AAAS Section B, Department of Geophysics and Geophysical Engineering, Institute of Technology, St. Louis University, and the American Geophysical Union; arranged by Ross R. Heinrich, St. Louis University.

**VII. Symposium: Tornadoes and Tornado Forecasting; afternoon; Kiel B.** Joint program of AAAS Section B, Department of Geophysics and Geophysical Engineering, Institute of Technology, St. Louis University, the American Geophysical Union, and the American Meteorological Society; arranged by Edward M. Brooks, St. Louis University. William J. Hartnett, President, Weathercast of America, St. Louis, presiding.

1. The Development, Aims, and Daily Operations of the Program of Severe Local Storm and Tornado Forecasting at the Kansas City District Forecast Center. William A. Hass, U. S. Weather Bureau, Kansas City.
2. Perturbations in the Surface Pressure, Central Midwest Area, 1952. Dansy T. Williams, U. S. Weather Bureau, Kansas City.
3. Correlation of Tornado Incidence from a Given Cloud Area with Characteristics of Lightning Discharges. Herbert L. Jones, Oklahoma A. and M. College.
4. An Objective System for Forecasting Tornadoes in Kansas and Nebraska. Frederick G. Shuman, U. S. Weather Bureau, Washington.
5. On a General Theory of Tornado Formation and Development and its Relation to the Pressure Jump

Line Theory, Morris Tepper, U. S. Weather Bureau, Washington.

6. Tornado Forecasting Procedures Used by TWA. (And Film of the Corn, Oklahoma, Tornado of 1951). Edwin D. Farthing, TWA, Kansas City Airport.

#### WEDNESDAY, DECEMBER 31

VIII. Sessions for Contributed Papers in Meteorology; morning; Hotel Jefferson. Program of 119th National Meeting, American Meteorological Society.

#### Other Programs of Interest to Physicists

**AAAS General Symposium: Disaster Recovery;** morning and afternoon, December 27; Kiel. Arranged by Howard A. Meyerhoff; speakers: Lloyd Berkner, President, Associated Universities, Inc.; Father James B. Macelwane, Dean, Institute of Technology, St. Louis University; Donald George Marquis, Chairman, Department of Psychology, University of Michigan; Ernest E. Howard, consulting engineer, Kansas City and New York; Frank P. Zeidler, Mayor, City of Milwaukee, and others.

**AAAS Section D, Astronomy:** Program includes a symposium and vice-presidential address of Harold L. Alden, Leander McCormick Observatory, University of Virginia.

**Mathematical Societies:** Among the many concurrent and joint programs of the American Mathematical Society, the Association for Symbolic Logic, and the Mathematical Association of America, December 27-30, there will be several outstanding addresses: AMS presidential address by John von Neumann, Institute for Advanced Study, 2:00 P.M., Dec. 28; Gibbs Lecture by Marston Morse, Institute for Advanced Study, 8:00 P.M., Dec. 28; and vice presidential address of AAAS Section A by R. L. Wilder, University of Michigan—"Origin and Growth of Mathematical Concepts"—3:30 P.M., Dec. 29.

**Conference on Scientific Manpower II:** mornings of December 27, 28, 29; Kiel.

Some of the programs of Section C, Chemistry; Section I's symposium "Men and Machines"; Section L's symposium "Methodology in Engineering Research"; the symposium "Hearing and Speech Aids", jointly sponsored by AAAS Sections M and Nm, the Institute of Radio Engineers and the Central Institute for the Deaf; the evening addresses of RESA, Sigma Xi, and Phi Beta Kappa; the large-scale Annual Exposition of Science and Industry; and the AAAS Science Theatre also will be of special interest.

A cordial invitation to join the Association has been extended to all physicists who may be interested in its efforts to serve as an effective unifying agent for science as a whole. Application forms, or additional information, may be obtained by writing to Dr. R. L. Taylor, Assistant Administrative Secretary, American Association

for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington 5, D. C.

## Abundance of the Elements

### 3-Day Conference at Yerkes Observatory

The National Science Foundation, in cooperation with the University of Chicago, is sponsoring a conference early this month to consider the effect of recent research in stellar and terrestrial measurements on current theories of the abundance of the elements in the universe. Some forty outstanding astronomers, chemists, geochemists, and physicists have been asked to take part in the meeting, which is to be held November 6-8 at the Yerkes Observatory, Williams Bay, Wisconsin. Plans for the conference were worked out by a four-man committee under the chairmanship of Harold Urey of the University of Chicago. Other members are Alfred O. Nier, of the University of Minnesota, William W. Rubey of the U. S. Geological Survey, and Otto Struve, University of California.

## Computer Conferences

### AIEE-IRE Meetings Scheduled

Two conferences on modern high-speed computing machines are to be held this winter under the joint sponsorship of the American Institute of Electrical Engineers and the Institute of Radio Engineers.

In New York City, the second annual AIEE-IRE computer conference is to take place December 10-12 at the Hotel Park Sheraton. The three-day program will include a total of twenty-eight papers covering computer input and output equipment. The chairman of the local arrangements committee is Arthur R. Mohr (c/o Hillyer Instrument Company, 54 Lafayette Street, New York, N. Y.).

In Los Angeles, the first meeting of the western computer conference will be held February 4-6 at the Hotel Statler. Several hundred persons interested in applications and design problems in connection with analog and digital computers are expected to attend the West Coast conference. Gilbert McCann of the California Institute of Technology and Harry Huskey of the National Bureau of Standards staff at the University of California at Los Angeles will serve as co-chairmen.

## Nuclear Physics

### International Conference at Rochester

About seventy nuclear physicists from the United States, Canada, and Mexico have been invited to attend a conference on high energy nuclear physics at Rochester, N. Y., December 18-20. The conference, held under the joint sponsorship of the National Science Foundation and the University of Rochester, will be financed by a \$2000 NSF grant and contributions from several Rochester industrial firms.