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Proceedings of the Fifth International Conference

Edited by Joseph R. Dillinger

The one hundred and ninety-eight contributed papers and the twenty-seven invited papers contained in this volume were presented at the Fifth International Conference on Low Temperature Physics and Chemistry held at the University of Wisconsin from August 26 to 31, 1957. These papers deal with current experimental and theoretical research involving studies of the properties of matter at temperatures near absolute zero.

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Meetings

International Institute of Sociology

The Institut International de Sociologie held its 18th biennial congress at Nürnberg, Germany, 10-18 September. There were 295 participants, of which 221 were delegates from 31 countries. Four days were spent at the Technical University, where panel discussions were devoted to the several hundred contributed papers. After the panel sessions, the members traveled for 5 days in large busses to see postwar Germany. One day was spent viewing the reconstruction of Kassel, the big railroad and textile city almost completely destroyed during the war; the other four were spent in East Germany and East and West Berlin.

The IIS is the oldest sociological organization, having been founded by René Worms at Paris in 1893. Papers for its meetings may be written in English, French, Spanish, Italian, or German. A summary of each paper is given in a second language, and an oral presentation in a third. After every meeting, the proceedings are printed in bound volumes for distribution to the members. Since the war, meetings have been held in Rome, Istanbul, Lebanon, and Paris.

Membership is elective; national quotas prevent domination by any country. Religious and political discussion is prohibited. Other than a first membership fee of about \$5, there are no dues. A subscription to the biennial meeting, which includes the right to present a scientific paper, is also about \$5.

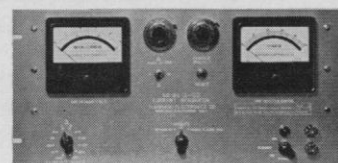
The sociologist Hans Freyer, formerly of the University of Leipzig, but now in the West Zone, was president of the recent congress. K. Valentin Muller of the Technical University at Nürnberg and general secretary of the IIS, was host this year. Carle C. Zimmerman of Harvard University is secretary for the United States and Canada.

New England Geology

The New England Intercollegiate Geological Conference held its 50th meeting, 11-12 October, in southern Connecticut, with over 200 in attendance. Wesleyan and Yale Universities were joint hosts. On the first day, the following field trips were held: "Stratigraphy and structure in the Middle Haddam quadrangle and vicinity," led by John L. Rosenfeld, University of California, Los Angeles, and Gordon P. Eaton of Wesleyan; "Stratigraphy and structure in the Triassic rocks of central Connecticut," led by John E. Sanders of Yale; and "Pleistocene geology of the lower Quinipiac Valley," led by Stephen C. Porter of Yale. The second-day trips included "Structure and metamorphism

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in the Deep River quadrangle and vicinity," Lawrence Lundgren of the University of Rochester, and "Triassic border fault and associated sedimentary rocks," John Rodgers of Yale.

At the annual business meeting, it was voted to accept the invitation of E-an Zen of the University of North Carolina to run a series of trips in western Vermont in October 1959. Details will be announced next spring.

Crystallographic Apparatus

The Commission on Crystallographic Apparatus of the International Union of Crystallography has announced two conferences to be held at the Karolinska Institutet, Stockholm, Sweden: 11 June 1959, Precision Lattice Parameter Determination; and 12 June 1959, Counter Methods for Crystal Structure Analysis. Attendance will be limited to 50 people actively engaged in either of these fields. Those wishing to participate should notify the chairman, Dr. William Parrish, Philips Laboratories, Irvington-on-Hudson, New York, N.Y., no later than 1 March 1959. Those wishing to present a paper should send a title and preliminary abstract to the chairman by 1 December.

The Second Symposium on X-Ray Microscopy and X-Ray Microanalysis will also be held at the Karolinska Institutet; it is scheduled for 15-17 June 1959. Information on the symposium may be obtained from Dr. G. Höglund, Inst. f. Medicinsk Fysik, Karolinska Institutet, Stockholm 60, Sweden. Hotel reservations should be arranged before 1 March 1959 through Reso Travel Bureau, Barnhusgatan 16, Stockholm 1, Sweden.

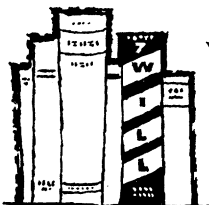
Agricultural Meteorology

The second session of the Commission for Agricultural Meteorology of the World Meteorological Organization finished its work on 17 October in Warsaw, Poland. The session lasted 3 weeks and was attended by representatives from 32 countries from all the climatic regions of the world.

The meeting dealt with all aspects of meteorology of interest to agriculture and forestry, such as weather forecasting for agriculture, frost warnings, weather forecasting for forest-fire prevention, and the influence of weather on the incidence and development of infectious diseases in livestock. The major part of the session was devoted to preparing an international guide for agricultural meteorological services.

The important contribution of meteorology to the fight against plant diseases and pests was also discussed. In this connection, a working group of the commission has prepared a valuable report that

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has been published by the secretariat of WMO. This report describes the work of a WMO technical assistance mission to Chile in 1955 and 1956 that used weather data to combat potato blight, with excellent results.

The commission created a working group which is to prepare an international guide for setting up shelter belts for frost protection. Another working group is to prepare a technical note on meteorological aspects of forest fires. In view of the increasing importance of the use of aircraft for agricultural purposes, another working group was set up to prepare international instructions concern-

ing meteorological service for such aircraft.

The role of meteorological assistance in locust control was reviewed, and a report on experience gathered throughout the world in this field was examined. Since 1955, WMO has had a meteorological technical assistance mission in Nairobi, consisting of meteorological experts and a team of locally employed draftsmen and weather-chart plotters. This group conducts basic research on tropical meteorology in connection with locust swarm movements and locust breeding habits. The life and movements of the desert locust are very largely

determined by weather factors. In this field, close collaboration is maintained with FAO.

The Warsaw session was presided over by J. Burgos of Argentina, and at the end of the meeting the commission elected Austin Bourke of Ireland to serve as president for the coming 4-year period. M. S. Kulik of the U.S.S.R. was elected vice president for the same period.

Forthcoming Events

December

15-17. American Soc. of Agricultural Engineers, winter, Chicago, Ill. (J. L. Butt, American Soc. of Agricultural Engineers, St. Joseph, Mich.)

15-19. Radiation Biology, 2nd Australian conf., Melbourne, Australia. (J. H. Martin, Physics Dept., Cancer Inst. Board, 483 St. Lonsdale St., Melbourne.)

17. Institute of Aeronautical Sciences, Washington, D.C. (R. R. Dexter, IAS, 2 E. 64 St., New York 21.)

18-20. American Physical Soc., Los Angeles, Calif. (K. K. Darrow, APS, Columbia Univ., New York 27.)

26-31. American Assoc. for the Advancement of Science, annual, Washington, D.C. (R. L. Taylor, AAAS, 1515 Massachusetts Ave., NW, Washington 5.)

The following 47 meetings are being held in conjunction with the AAAS annual meeting.

AAAS Committee on the Social Aspects of Science (C. D. Leake, Ohio State Univ. College of Medicine, Columbus, Ohio). 27 Dec.

AAAS Cooperative Committee on the Teaching of Science and Mathematics (J. W. Buchta, Univ. of Minnesota, Minneapolis, Minn.). 28 Dec.

Academy Conf. (J. A. Yarbrough, Meredith College, Raleigh, N.C.). 27-28 Dec.

Alpha Epsilon Delta (M. L. Moore, 7 Brookside Circle, Bronxville, N.Y.). 27 Dec.

American Assoc. of Clinical Chemists (Miss E. G. Frame, Clinical Center, Natl. Institutes of Health, Bethesda 14, Md.). 29-30 Dec.

American Assoc. of Scientific Workers (R. J. Rutman, 6331 Ross St., Philadelphia 44, Pa.).

American Astronautical Soc. (R. Fleisig, 58 Kilburn Rd., Garden City, N.Y.). 27-30 Dec.

American Geophysical Union (W. E. Smith, AGU, 1515 Massachusetts Ave., NW, Washington 5).

American Meteorological Soc. (K. Spengler, 3 Joy St., Boston, Mass.).

American Nature Soc. (S. Mulaik, Biology Dept., Univ. of Utah, Salt Lake City). 26-30 Dec.

American Physiological Soc. (F. A. Hitchcock, Ohio State Univ., Columbus).

American Political Science Assoc. (E. M. Kirkpatrick, APSA, 1726 Massachusetts Ave., NW, Washington, D.C.). 27 Dec.

American Psychiatric Assoc. (L. J. West, Univ. of Oklahoma School of Medicine, Oklahoma City 4). 27-28 Dec.

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American Soc. of Criminology (D. E. J. MacNamara, Dean, New York Inst. of Criminology, Inc., 40 E. 40 St., New York 16). 27-28 Dec.

American Soc. of Naturalists (J. Schultz, Inst. for Cancer Research, Philadelphia, Pa.).

American Soc. of Photogrammetry (R. G. Ray, U.S. Geological Survey, Washington 25). 29 Dec.

American Soc. of Zoologists (G. Moment, Dept. of Biology, Goucher College, Towson, Baltimore 4, Md.). 27-29 Dec.

American Sociological Soc. (K. Davis, Inst. of International Studies, Univ. of California, Berkeley 4). 29 Dec.

Association of American Geographers, Middle Atlantic Div. (J. E. Guernsey, 9707 Parkwood Dr., Bethesda, Md.). 29 Dec.

Association for Computing Machinery (J. Douglas, Mathematics Dept., Rice Inst., Houston, Tex.).

Astronomical League (Miss G. C. Scholz, 410 Mason Hall Apts., Alexandria, Va.). 26 Dec.

Biometric Soc. (J. Cornfield, Johns Hopkins Univ., Baltimore, Md.). 30 Dec.

American Statistical Assoc. (E. Glazer, 305 George Mason Dr., Falls Church, Va.). 30 Dec.

Conference on Scientific Communica-

tion Problems (G. L. Seielstad, Applied Physics Lab., Johns Hopkins Univ., Silver Spring, Md.). 28-30 Dec.

Conference on Scientific Manpower (T. J. Mills, National Science Foundation, Washington 25). 30 Dec.

Ecological Soc. of America (D. E. Davis, Johns Hopkins Univ., School of Hygiene, Baltimore, Md.).

History of Science Soc. (M. C. Leikind, 1334 Aspen St., NW, Washington 12). 29 Dec.

Instrument Soc. of America (O. L. Linebrink, Battelle Memorial Inst., Columbus, Ohio). 30 Dec.

International Geophysical Year (H. Odishaw, National Acad. of Sciences, Washington 25). 29-30 Dec.

Junior Scientists Assembly (K. C. Johnson, Supervising Director of Science, District of Columbia Public Schools, Woodrow Wilson High School, Washington 16). 27-28 Dec.

Metric Assoc. (J. T. Johnson, 694 W. 11 St., Claremont, Calif.).

National Acad. of Economics and Political Science (D. P. Ray, Hall of Government, George Washington Univ., Washington, D.C.). 27 Dec.

National Assoc. of Biology Teachers (P. Klinge, Jordan Bldg., Indiana Univ., Bloomington). 26-30 Dec.

National Assoc. for Research in Science Teaching (E. S. Obourn, U.S. Office of Education, Washington 25). 26-30 Dec.

National Assoc. of Science Writers (J. Billard, U.S. News and World Report, Washington, D.C.).

National Geographic Soc. (W. R. Gray, NGS, 16 and M Sts., NW, Washington 6). 30 Dec.

National Science Teachers Assoc. (W. A. Kilgore, District of Columbia Teachers College, Washington 9). 26-30 Dec.

National Speleological Soc. (W. E. Davies, 125 Greenway Blvd., Falls Church, Va.). 28-29 Dec.

Philosophy of Science Assoc. (C. W. Churchman, Case Inst. of Technology, Cleveland, Ohio).

Pi Gamma Mu (Mrs. Effie B. Urqhart, Winfield, Kan.).

Scientific Research Soc. of America (D. B. Prentice, 56 Hillhouse Ave., New Haven 11, Conn.).

Sigma Delta Epsilon (Mrs. V. L. Blackford, 2630 Adams Mill Rd., NW, Washington 10). 26-30 Dec.

Society for General Systems Research (R. L. Meier, Mental Health Research Inst., Univ. of Michigan, Ann Arbor). 29 Dec.

Society for Industrial Microbiology, Washington section (W. N. Ezekiel, Bur. of Mines, Washington 25). 27-28 Dec.

Society of the Sigma Xi (T. T. Holme, 56 Hillhouse Ave., New Haven 11, Conn.). 29 Dec.

Society of Systematic Zoology (G. W. Wharton, Dept. of Zoology, Univ. of Maryland, College Park). 26-30 Dec.

United Chapters of Phi Beta Kappa (C. Billman, 1811 Q St., NW, Washington, D.C.). 27 Dec.

Washington Acad. of Sciences (G. W. Irving, ARS, U.S. Dept. of Agriculture, Washington 25).

(See issue of 17 October for comprehensive list)

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