

Meetings and Societies

Pure and Applied Chemistry

The international organization of the science of chemistry is effected through a union meeting of national delegates, who pass on such actions as nomenclature, publications, and organizational matters. These actions were taken in meetings of the International Union of Pure and Applied Chemistry, held in Paris 16 July, two days before the 16th congress of the union convened, and 25 July, the day following the close of the congress. To effect the many discussions and actions, the union has established working divisions of Organic, Inorganic, Analytical, Industrial, and Biological Chemistry, and each of these divisions has a number of commissions, of which more than 40 held one or more sessions during the week of the congress 18–24 July. More than 4000 chemists from 45 countries took part in the congress, at which 912 technical papers were presented, of which about half were in the field of organic chemistry and the balance in inorganic and physical chemistry.

A series of 17 main lectures was arranged for the beginning and conclusion of the principal sessions. The invited speakers included a broad cross section of chemical scientists from many countries, of whom three, Glenn T. Seaborg, Paul D. Bartlett, and Leo Brewer, were from the United States. The speaker at the opening session was Giulio Natta of Italy, and at the closing session the technical speaker was Alexander Terenine of Russia.

The meeting in Paris of the international union had been arranged in order to recognize the 100th anniversary of the founding of the Société Chimique de France. Preceding the congress, a special formal session was held, 16 July, in the grand amphitheater of the Sorbonne, at which representatives, in colorful academic and formal attire, of the many chemical and scientific societies and academies, as well as of many universities, presented formal scrolls. President Delaby of the French Chemical Society spoke on the advances of chemistry in France.

This session was attended by the President of the Republic of France and by diplomatic representatives as well as by

many of the world's leading chemists. The symphony orchestra of the Garde Republicaine provided music for the occasion, including the appropriate *Sorcerer's Apprentice*, following the address by Delaby.

On 22 July, a formal banquet was held at the Chateau de Versailles, at which more than 1000 chemists were present.

In addition to the papers at the scheduled congress, some special symposia were arranged, before and after the main congress, such as one on "Proteins," which was sponsored by the Section for Biological Chemistry and which met in Paris 25–29 July.

WALLACE R. BRODE
*National Bureau of Standards,
Washington, D.C.*

Molecular Spectroscopy

The Third Biennial European Molecular Spectroscopic Conference was held in Freiburg, Germany, 8–14 July. The meeting was arranged by R. Mecke, the director of the Institut für Physikalische Chemie of the University of Freiburg. Ample opportunity was provided for discussion, and, while simultaneous sessions were arranged for both morning and afternoon, evenings were left for group discussions.

More than 400 molecular spectroscopists attended the meeting, at which 116 papers were presented covering the fields of infrared spectroscopy, microwave spectroscopy, ultraviolet spectroscopy, nuclear magnetic resonance spectral theory, and Raman spectra. In addition to the technical research papers, four general review discussions were presented. These were by E. B. Wilson on "Recent developments in microwave spectroscopy"; H. W. Thompson on "Infrared intensity measurements"; R. E. Richards on "Nuclear magnetic resonance spectroscopy"; and B. Vodar on "Molecular spectra studies in the extreme ultraviolet."

The conference was truly international, with representatives from 23 nations and about an equal distribution among English, French, and German in the language of presentation. The American presentation at the meeting was about

10 percent of the scheduled program, and about 30 Americans were in attendance. In addition to the active participation by a large number of East German scientists, there were a few scientists from the U.S.S.R., Hungary, Rumania, and Czechoslovakia.

Society Elections

■ Society of Protozoologists: pres., Gordon H. Ball, University of California, Los Angeles; vice pres., William Balamuth, University of California, Berkeley; treas., Daniel M. Lilly, St. John's University, Brooklyn, N.Y. Representative to the AAAS Council is Harold E. Finley, Howard University, Washington, D.C.

■ National Science Teachers Association: pres., Glenn O. Blough, University of Maryland; pres.-elect, Herbert A. Smith, University of Kansas; sec., H. M. Louderback, Lewis and Clark High School, Spokane, Wash.; treas., Robert T. Lagemann, Vanderbilt University.

■ Society of General Physiologists: pres., Folke Skoog, University of Wisconsin; vice pres., C. L. Prosser, University of Illinois; sec., Frederick Sherman, Brown University; treas., A. M. Chase, Princeton University; Representatives to the AAAS Council, F. H. Johnson, Princeton University, and K. S. Cole, National Institutes of Health.

■ American Society for Horticultural Science: pres., W. T. Pentzer; vice pres., Freeman S. Howlett; sec.-treas., Roy E. Marshall.

■ American Society of Zoologists: pres.-elect, V. C. Twitty, Stanford University; sec., Gairdner Mement, Goucher College; treas., Jane Oppenheimer, Bryn Mawr College.

■ Society of Exploration Geophysicists: pres., O. C. Clifford, Jr., Atlantic Refining Company, Dallas, Tex.; v. pres., Ben F. Rummerfield, Century Geophysical Corporation, Tulsa, Okla.; sec.-treas., Howard E. Itten, Empire Geophysical, Inc., Fort Worth, Tex.

Forthcoming Events

November

2–4. American Soc. for the Study of Arteriosclerosis, 11th annual, Chicago, Ill. (L. N. Katz, Michael Reese Hospital, Chicago 16.)

2–8. World Metallurgical Cong., 2nd, Chicago, Ill. (W. H. Eisenman, American Soc. for Metals, 7301 Euclid Ave., Cleveland 3, Ohio.)

2–10. Measuring Instruments and Automation, internatl. cong., Düsseldorf, Ger-

many. (Nordwest Deutsche Ausstellungs Gesellschaft, M.B.H., Ehrenhof 4, Düsseldorf.)

3. American College of Dentists, annual, Miami, Fla. (O. W. Brandhorst, 4221 Lindell Blvd., St. Louis 8, Mo.)

3. Society of Vertebrate Paleontology, annual, Philadelphia, Pa. (J. T. Gregory, Peabody Museum, Yale Univ., New Haven, Conn.)

3-9. Pan American Cong. of Pharmacy and Biochemistry, 4th, Washington, D.C. (G. Griffenhagen, Smithsonian Institution, Washington 25.)

4-5. Crystal Structure Analysis by IBM 704 Computer, NBS Conf., Washington, D.C. (V. Vand, Pennsylvania State Univ., University Park.)

4-5. Society of Vertebrate Paleontology, technical sessions, Atlantic City, N.J. (J. T. Gregory, Peabody Museum, Yale Univ., New Haven, Conn.)

4-6. Analytical Chemistry in Nuclear Reactor Technology, Gatlinburg, Tenn. (D. D. Cowen, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tenn.)

4-6. Geological Soc. of America, annual, Atlantic City, N.J. (H. R. Aldrich, GSA, 419 W. 117 St., New York 27.)

4-6. Mineralogical Soc. of America, annual, Atlantic City, N.J. (C. S. Hurlbut, Jr., Dept. of Mineralogy, Harvard Univ., Cambridge 38, Mass.)

4-6. Paleontological Soc., annual, Atlantic City, N.J. (H. B. Whittington, Museum of Comparative Zoology, Harvard Univ., Cambridge 38, Mass.)

4-6. Society of Economic Geologists, annual, Atlantic City, N.J. (H. M. Bannerman, U.S. Geological Survey, Washington 25.)

4-7. American Dental Assoc., annual, Miami, Fla. (H. Hillenbrand, 222 E. Superior St., Chicago 11, Ill.)

6-8. Electronic Techniques in Medicine and Biology, Boston, Mass. (H. S. Kinder, Instrument Soc. of America, 313 Sixth Ave., Pittsburgh 22, Pa.)

7-8. Society for Applied Spectroscopy, 12th annual, New York, N.Y. (J. Hansen, 27 Tulsa Ave., Metuchen, N.J.)

7-8. Television and Radio in the Health Field, conf., Chicago, Ill. (American Medical Assoc., 535 N. Dearborn St., Chicago 10.)

7-9. Animal Care Panel, 8th annual, San Francisco, Calif. (R. J. Flynn, ACP, Box 299, Lemont, Ill.)

7-9. Society of Rheology, annual, Princeton, N.J. (W. R. Willets, Titanium Pigment Corp., 99 Hudson St., New York.)

10-13. Society of American Foresters, 57th annual, Syracuse, N.Y. (H. Clepper, SAF, 415 Mills Bldg., Washington 6.)

10-13. Xi Sigma Pi, Syracuse, N. Y. (J. R. Parker, School of Forestry, Univ. of Georgia, Athens.)

10-14. Society of Exploration Geophysicists, 27th annual, Dallas, Tex. (J. C. Hollister, Colorado School of Mines, Golden.)

11-13. Radio Fall Meeting, IRE, Toronto, Ont., Canada. (V. Graham, RETMA, 11 W. 42 St., New York 26.)

11-14. American Petroleum Inst., 37th annual, Chicago, Ill. (API, 50 W. 50 St., New York 20.)

11-15. American Public Health Assoc., 85th annual, Cleveland, Ohio. (R. M. Atwater, APHA, 1790 Broadway, New York 19.)

11-15. American Soc. of Professional Biologists, annual, with American Public Health Assoc., Cleveland, Ohio. (A. F. Borg, Dept. of Bacteriology, Kansas State College, Manhattan.)

13-15. American Meteorological Soc., College Station, Tex. (K. C. Spengler, AMS, 3 Joy St., Boston 8, Mass.)

13-15. Clinical Chemistry Symp., Cleveland, Ohio. (F. E. Bunts Educational Inst., Cleveland, Clinic Foundation, 2020 E. 93 St., Cleveland 6.)

13-15. Standards, 8th national conf., San Francisco, Calif. (American Standards Assoc., 70 E. 45 St., New York 17.)

13-16. Society of Naval Architects and Marine Engineers, 65th annual, New York. (W. N. Landers, SNAME, 74 Trinity Pl., New York 6.)

14-15. Operations Research Soc. of America, Pittsburgh, Pa. (M. L. Ernst, Box 2176, Potomac Station, Alexandria, Va.)

14-16. American Inst. of Mining, Metallurgical, and Petroleum Engineers, semiannual, Chicago, Ill. (H. N. Appleton, AIME, 29 W. 39 St., New York 18.)

14-16. American Soc. of Refrigerating Engineers, Chicago, Ill. (R. C. Cross, ASRE, 234 Fifth Ave., New York 1.)



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14-16. Inter-Society Cytology Council, annual scientific, Augusta, Ga. (P. F. Fletcher, 634 N. Grand Ave., St. Louis 3, Mo.)

17-22. Radiological Soc. of North America, annual, Chicago, Ill. (D. S. Childs, 713 E. Genesee St., Syracuse, N.Y.)

18-21. Magnetism and Magnetic Materials Conf., Washington, D.C. (L. R. Maxwell, U.S. Naval Ordnance Lab., White Oak, Silver Spring, Md.)

18-22. American Soc. of Agronomy, annual, Atlanta, Ga. (L. G. Monthey, ASA, 2702 Monroe St., Madison, Wis.)

18-22. Citrus Virus Diseases Conf., Riverside, Calif. (J. M. Wallace, Dept. of Plant Pathology, Univ. of California, Riverside.)

18-9. Pacific Science Cong., 9th, Bangkok, Thailand. (Pacific Science Board, National Research Council, 2101 Constitution Ave., NW, Washington 25.)

20-24. National Assoc. for Mental Health, annual, Atlantic City, N.J. (NAMH, 10 Columbus Circle, New York 19.)

22. Ultraviolet Scanning Microscopy Symp., Philadelphia, Pa. (H. K. Schlegelmilch, RCA Victor TV Div., Bldg. 204-2, Section 219, Cherry Hill, Camden 8, N.J.)

25-27. American Acad. for Cerebral Palsy, 11th annual, New Orleans, La. (R. R. Rembolt, Iowa Hospital-School State University of Iowa, Iowa City.)

25-27. Physics and Dynamics of Fluids, APS, Bethlehem, Pa. (F. N. Frenkiel,

Applied Physics Lab., Johns Hopkins Univ., Silver Spring, Md.)

26-28. Central Assoc. of Science and Mathematics Teachers, 57th annual, Chicago, Ill. (L. Panush, Henry Ford High School, Detroit 19, Michigan.)

28-29. American Physical Soc., St. Louis, Mo. (K. K. Darrow, Columbia Univ., New York 27.)

29-30. American Soc. of Animal Production, annual, Chicago, Ill. (H. H. Stonaker, Animal Husbandry Dept., Colorado State Univ., Fort Collins.)

December

1-6. American Soc. of Mechanical Engineers, annual, New York, N.Y. (C. E. Davies, ASME, 29 W. 39 St., New York 18.)

1-15. Bahamas Medical Conf., 4th, Nassau, Bahamas. (B. L. Frank, 1290 Pine Ave., West, Montreal, Que., Canada.)

2-5. Entomological Soc. of America, annual, Memphis, Tenn. (R. H. Nelson, ESA, 1530 P St., NW, Washington 5.)

4-8. American Psychoanalytic Assoc., New York, N.Y. (J. N. McVeigh, APA, 36 W. 44 St., New York 36.)

4-10. American Acad. of Optometry, annual, Chicago, Ill. (C. C. Koch, 1506-1508 Foshay Tower, Minneapolis 2, Minn.)

5-7. Texas Acad. of Science, annual, Dallas. (G. C. Parker, Education Dept., Texas A&M College, College Station.)

(See issue of 20 September for comprehensive list)

EQUIPMENT NEWS

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science does not assume responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to Science, Room 740, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

■ REMOTE-CONTROL MICROSCOPE for nuclear metallography is based on designs of the Atomic Energy Research Establishment, Harwell, England. The inverted microscope is provided with tubular optical devices, called "transport optics," one for illumination and another for visual microscopy or photomicrography at a distance of 30 in. Several light sources are available. These are mounted outside the shielding. An objective changer, for six objectives and a micro hardness tester, is remotely controlled. The optical bench on the viewing side will accommodate a reflex camera, a cine camera, or a television camera. (Shandon Scientific Co., Ltd., Dept. S614)

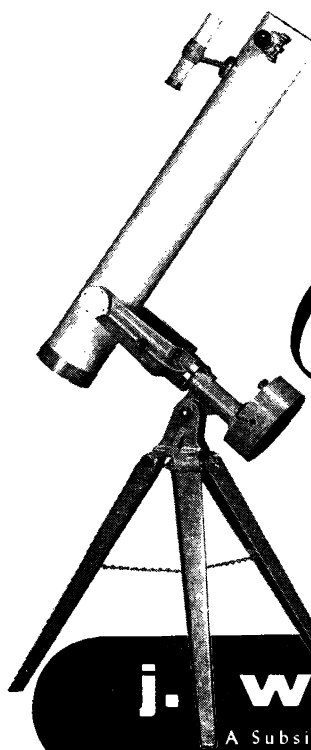
■ DENSITY-MEASURING INSTRUMENT consists of a Pyrex pipe, a Pyrex plummet contained within the pipe, and a calibrating chain weight of platinum or tantalum. Liquid to be measured is passed continuously through the pipe. Temperature and zero-set adjustments are provided. A model for use at temperatures to 220°C is available with ranges as small as 0.01 and as large as 0.5 specific gravity; it can be used at pressures up to 125 lb/in². (Precision Thermometer and Instrument Co., Dept. S615)

■ CRYSTAL FILTERS provide sharp-rejection band pass at high frequencies. The filters use several wafers of quartz, usually two, four, or eight, arranged in a bridge network configuration. The filters are said to be useful at frequencies beyond the range of LC or mechanical filters. (Hycon Manufacturing Company, Dept. S618)

■ ELECTRODELESS CONDUCTIVITY METER, for use with liquids that would clog conventional cells, utilizes input and output toroid coils that are coupled by the liquid flowing through them. The input coil is excited by audio-frequency current. The voltage developed in the output coil is read as a measure of the conductivity of the liquid. (Industrial Instruments Inc., Dept. S619)

■ VAPOR CHROMATOGRAPH is designed to take three rough cuts of a total sample, without pre separation, and make three simultaneous analyses of the cuts. Three stages operate in series, unresolved components being fed into the following

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