

may be classified in three groups according to the positions of the radicles introduced: (1) symmetrical, 1:3:5; (2) vicinal, 1:2:6 or 1:2:3, and (3) unsymmetrical. Only in case (1) does the principal benzene line ($\Delta\nu=990$) appear with marked intensity, and as the symmetry of the nucleus vibration with the 1:3:5-compound can be only trigonal, it is concluded that the symmetry of the ring itself is also trigonal.—Alfred Brukl and Bruno Hahn: The heteropoly-acids of germanium.

Forthcoming Events

FRIDAY, MAY 13

- ROYAL ANTHROPOLOGICAL INSTITUTE (Sociological Research Committee), at 5.30.—J. H. Driberg: Economic Stages of Development in Africa.
 ROYAL SOCIETY OF MEDICINE (Clinical Section), at 5.30.—Annual General Meeting.
 BRITISH ASSOCIATION OF CHEMISTS (London Section) (at Broad Street Station Restaurant, E.C.), at 7.—Annual General Meeting.
 INSTITUTION OF ELECTRICAL ENGINEERS (Scottish Centre) (at Cowdray Hall, Aberdeen), at 7.30.—Prof. J. K. Catterson-Smith: Everyday Uses of Electricity (Faraday Lecture).
 ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir John C. W. Reith: Broadcasting.
 INTERNATIONAL COMMITTEE ON THE HISTORY OF SCIENCE (at Paris) (continued on May 14 to 16).

SATURDAY, MAY 14

- ASSOCIATION OF TEACHERS IN TECHNICAL INSTITUTIONS (Annual Conference) (at Technical College, Cardiff) (continued on May 15 to 17).

TUESDAY, MAY 17

- ROYAL SOCIETY OF MEDICINE, at 5.—Special Meeting of Fellows.
 KING'S COLLEGE, LONDON, at 5.30.—Prof. M. Schlick: Form and Content. (Succeeding Lectures on May 18 and 20.)
 IRON AND STEEL INSTITUTE (Additional Meeting) (at Royal Metal Exchange, Swansea), at 6.—Presentation of Papers.

WEDNESDAY, MAY 18

- NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY (at London School of Economics), at 5.30.—Dr. C. S. Myers: Psychological and Social Factors in Business Rationalisation (3): The Advantages of Rationalisation.
 INSTITUTION OF WATER ENGINEERS (at Sheffield).—Summer General Meeting (continued at Buxton, May 19 to 21).

THURSDAY, MAY 19

- UNIVERSITY COLLEGE, at 2.30.—Sir Flinders Petrie: Canaanite Civilisation (to be repeated on May 21, at 3, and on May 24, at 5.30).
 LONDON MATHEMATICAL SOCIETY (at Royal Astronomical Society), at 5.—Prof. H. Levy: A Numerical Study of Differential Equations (Lecture).
 ROYAL SOCIETY OF MEDICINE (Dermatology Section), at 5.—Annual General Meeting.
 LIVERPOOL BIOLOGICAL SOCIETY (in Zoology Department, Liverpool University), at 5.30.—Mrs. C. S. Hodson: Biological Advances and Eugenics (Lecture).
 UNIVERSITY COLLEGE, at 5.30.—Dr. C. S. Myers: The Absurdity of any Mind-Body Relation (Hobhouse Memorial Lecture).
 CHEMICAL SOCIETY, at 8.—Discussion on Some Aspects of Asymmetric Synthesis.
 ROYAL SOCIETY OF MEDICINE (Neurology Section), at 8.—Annual General Meeting.
 BRITISH INSTITUTE OF RADIOLOGY (Annual General Meeting), at 8.—Dr. J. C. Mottram: On the Relationship of Beta and Gamma Radiation in the Treatment of Tumours; The Action of Radium on Blood Supply—The White Reaction.

GERMAN OPHTHALMOLOGICAL SOCIETY (at Leipzig) (continued on May 20 and 21).

CONGRESS OF INTERNATIONAL ASSOCIATION FOR BRIDGE AND STRUCTURAL ENGINEERING (at Paris) (continued on May 20 to 25).

FRIDAY, MAY 20

- ROYAL SOCIETY OF MEDICINE (Physical Medicine Section), at 5.30.—Annual General Meeting.
 ROYAL SOCIETY OF MEDICINE (Radiology Section), at 8.30.—Annual General Meeting.
 ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. H. E. Armstrong: Faraday at the Sign of the Hexagon: Coal Colour and Constitution.
 INSTITUTION OF ELECTRICAL ENGINEERS (Western Centre) (at Sedbury, Monmouthshire).—Summer Meeting (continued on May 21 to 23).

SATURDAY, MAY 21

- INSTITUTION OF ELECTRICAL ENGINEERS (Irish Centre—Dublin) (at Trinity College, Dublin), at 7.45.—Annual General Meeting.
 GERMAN CONGRESS FOR PSYCHICAL HYGIENE (at Bonn).

Official Publications Received

BRITISH

- The Scientific Proceedings of the Royal Dublin Society. Vol. 20 (N.S.), No. 17: Report on the Recent Bog-Flow at Glencullin, Co. Mayo. By A. D. Delap, A. Farrington, R. Lloyd Praeger and Louis B. Smyth. Pp. 181-192. 1s. Vol. 20 (N.S.), No. 19: Electrical Properties of Oil-Water Emulsions, with special reference to the Structure of the Plasmatic Membrane, II. By Prof. Henry H. Dixon and Dr. T. A. Bennet-Clark. Pp. 211-226. 1s. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.)
 Agricultural Progress: the Journal of the Agricultural Education Association. Vol. 9, 1932. Pp. 184. (Cambridge: W. Heffer and Sons, Ltd.) 5s. net.
 Seale-Hayne Agricultural College: Department of Plant Pathology. Eighth Annual Report for the Year ending September 30th, 1931. (Pamphlet No. 37.) Pp. 25. (Newton Abbot.)
 Journal of the Indian Institute of Science. Vol. 15A, Part 1: Salt Stains on South Indian Hides and Skins. By V. N. Patwardhan and M. Subramania Sastry. Pp. 8+1 plate. (Bangalore.) 12 annas.
 India: Meteorological Department. Winds, Weather and Currents on the Coasts of India and the Laws of Storms. Pp. iii+51+18 plates. (Calcutta: Government of India Central Publication Branch.) 2.6 rupees; 4s. 6d.
 Commonwealth of Australia: Council for Scientific and Industrial Research. Bulletin No. 57: Infectious Exterotoxaemia (The So-called Braxy-like Disease) of Sheep in Western Australia. By H. W. Bennetts. Pp. 72. (Melbourne: H. J. Green.)

FOREIGN

- University of California Publications in American Archaeology and Ethnology. Vol. 33, No. 1: The Western Kuksu Cult. By E. M. Loeb. Pp. vi+137. (Berkeley, Calif.; University of California Press; London: Cambridge University Press.) 1.50 dollars.
 Japanese Journal of Botany: Transactions and Abstracts. Vol. 6, No. 1. Pp. v+137+26. (Tokyo: National Research Council of Japan.)
 Rubber Research Institute of Malaya. Planting Manual No. 3: Plantation Sheet Rubber Manufacture. By R. O. Bishop. Pp. iv+61. (Kuala Lumpur.) 2 dollars.
 Smithsonian Miscellaneous Collections. Vol. 87, No. 5: The Narrative of a Southern Cheyenne Woman. By Truman Michelson. (Publication 3140.) Pp. 13. Vol. 87, No. 8: Seth Eastman, the Master Painter of the North American Indian. By David I. Bushnell, Jr. (Publication 3136.) Pp. 19+15 plates. (Washington, D.C.: Smithsonian Institution.)
 Japanese Journal of Astronomy and Geophysics. Transactions and Abstracts, Vol. 3, No. 2. Pp. ii+77-125+7-11. (Tokyo: National Research Council of Japan.)
 Iowa Geological Survey. Vol. 34: Annual Report, 1928; with Accompanying Papers. Pp. viii+464. (Des Moines.)
 Proceedings of the United States National Museum. Vol. 80, Art. 14: Upper Cretaceous Foraminifera from Trinidad. By Joseph A. Cushman and P. W. Jarvis. (No. 2914.) Pp. 60+16 plates. Vol. 80, Art. 15: The Parasitic Habit in the Ducks, a Theoretical Consideration. By Herbert Friedman. (No. 2918.) Pp. 7. (Washington, D.C.: Government Printing Office.)
 U.S. Department of Agriculture. Technical Bulletin No. 299: Repellency to the Japanese Beetle of Extracts made from Plants Immune to Attack. By F. W. Metzger and D. H. Grant. Pp. 22. (Washington, D.C.: Government Printing Office.) 5 cents.

CATALOGUES

- Classified List of Second hand Scientific Instruments. (No. 101.) Pp. vi+58. (London: C. Baker.)
 B. D. H. Reagents for Delicate Analysis and "Spot" Tests. Pp. iv+40. (London: The British Drug Houses, Ltd.)
 Women Writers (Seventh Century to Present Day): Biographies and Autographs of Celebrated Women, Children's Books, Costume, Nursing, etc. (Catalogue 548.) Pp. 28. (London: Francis Edwards, Ltd.)
 Industrial Thermometers, Hydrometers, Pressure Gauges. (List No. 579.) Pp. 52. (London: C. F. Casella and Co., Ltd.)