

extensive collections, on long and intimate personal experience on the part of the authors of all the major citrus-growing areas in the hills and on the plains, together with wild specimens from the forest tracts, and on the creation and maintenance of a living museum of specimens, the latter affording materials for detailed studies. The classification adopted is based on standard treatises, but it has been broadened to accommodate the abundant materials found in Assam and, at this stage, is admittedly empirical. In all, some sixteen main species are enumerated.

#### Transmission of Raspberry Mosaic Viruses to the Strawberry

THE disease known as raspberry mosaic is caused by a combination of two viruses, referred to as rubus yellow-net and black raspberry necrosis. In a recent study, R. Stace-Smith and F. C. Mellor (*Canadian J. Bot.*, 35, 287; 1957) have attempted, by means of the leaf-grafting technique, to transmit the two component viruses of raspberry mosaic, separately and in combination, to three strains of *Fragaria vesca* L. Only the rubus yellow-net virus was transmitted to the strawberry and it induced severe symptoms. Neither the raspberry aphid, *Amphorophora rubi* Kalt., nor the strawberry aphid *Pentatrichopus fragaefolii* (Ckll.), transmitted the yellow-net virus from raspberry to strawberry, although *A. rubi* was able to transmit the virus from strawberry back to raspberry.

#### Scientific Instrument Manufacturers' Association: Officers

MR. P. GOUDIME, managing director of Electronic Instruments, Ltd., has recently been elected president of the Scientific Instrument Manufacturers' Association for the year 1957-58, in succession to Mr. G. A. Whipple, chairman and managing director of Hilger and Watts, Ltd., who now becomes a vice-president. Mr. R. Barrington Brock, director of Townson and Mercer, Ltd., has been elected vice-president (president-elect). Other officers for 1957-58 are: *Hon. Secretary*, Mr. L. A. Woodhead (Cossor Instruments, Ltd.); *Hon. Treasurer*, Mr. P. J. Ellis (R. B. Pullin and Co., Ltd.). Representing Sections of the Association are the following new members of the Council: Optical, Mr. G. C. Ottway (W. Ottway and Co., Ltd.); Mr. P. D. Scott Maxwell (Cooke, Troughton and Simms, Ltd.); Surveying and Navigational, Mr. R. Broadbent (Sperry Gyroscope Co., Ltd.); Electronic, Mr. A. W. Jones (Fleming Radio (Developments), Ltd.); Nucleonic, Mr. H. A. Luss (Isotope Developments, Ltd.); Northern Area, Mr. A. Howarth (Fielden Electronics, Ltd.).

#### The Night Sky in August

FULL moon occurs on August 10d. 13h. 08m. U.T., and new moon on August 25d. 11h. 32m. The following conjunctions with the Moon take place: Aug. 4d. 21h., Saturn 0.2° S.; Aug. 27d. 17h., Jupiter 5° N.; Aug. 28d. 01h., Venus 3° N. In addition to these conjunctions with the Moon, Mars is in conjunction with Regulus on Aug. 6d. 15h., Mars being 0.7° N., and Venus with Jupiter on Aug. 22d. 15h., Venus being 0.5° S. Mercury is too close to the Sun for observation during the month. Venus sets about an hour after the Sun, and will be visible as a bright object low in the west just after sunset. Mars and Jupiter are too close to the Sun for observation. Saturn sets at 23h. 55m., 23h. 00m. and 22h. 00m. on August 1, 15 and 31, respectively; it is stationary

on August 12, and afterwards moves eastwards among the stars. The stellar magnitude of Saturn is +0.7 and its distance from the Earth on August 15 is 900 million miles. Occultations of stars brighter than magnitude 6 are as follows, observations being made at Greenwich: Aug. 5d. 20h. 13.9m.,  $\xi$  Oph. (*D*); Aug. 6d. 20h. 33.9m., 15 Sgr. (*D*); Aug. 19d. 2h. 42.5m., 163 B. Tau. (*R*). *D* and *R* refer to disappearance and reappearance, respectively. The Perseid meteors are active during the first two weeks of August, but conditions are very unfavourable for observation.

#### Announcements

DR. D. T. A. TOWNEND, director-general of the British Coal Utilization Research Association, and Dr. A. C. Monkhouse, acting director of fuel research in the Department of Scientific and Industrial Research, have been appointed to the Fuel Efficiency Advisory Committee in succession to the late Dr. G. E. Foxwell and Mr. W. L. Boon.

DR. WILLIAM RAILSTON, a principal lecturer in physics at the Royal Military College of Science, Shrivenham, is to be seconded as scientific and technical adviser to the Commonwealth Relations Office with special responsibility for the scientific problems of the Colombo Plan. The appointment is for eighteen months. He will be based in London, but will make visits to India, Pakistan, Ceylon and other eastern countries.

A SPECIAL one-day course on "Safety and Health in Welding", intended for nurses in industry and safety officers, has been organized by the Institute of Welding, to be held in London on October 12. Inquiries should be addressed to the Secretary, Institute of Welding, 54 Princes Gate, London, S.W.7.

A FARADAY Society Discussion on "Interaction in Ionic Solutions" is to be held in the University Laboratory of Physiology, South Parks Road, Oxford, during September 17-19. There will be three sessions, devoted to the general theory of electrolytes, incomplete dissociation, and ion-solvent interaction, respectively. All inquiries should be addressed to the Assistant Secretary, Faraday Society, 6 Gray's Inn Square, London, W.C.1.

THE eighth Conference of the Medical Group of the Institute of British Photographers will be held at the Royal Infirmary, Manchester, during September 20-22. It will be opened by Mr. Robert Newell, dean of Postgraduate Medical Studies, Manchester. This Conference is open to anyone interested in medical illustration. Full details can be obtained from the Medical Secretary, Institute of British Photographers, 38 Bedford Square, W.C.1.

THE Universities Federation for Animal Welfare is organizing a Summer School designed for undergraduates of all faculties, to be held at Westham House, Barford, Warwick, during September 14-21. The programme will include visits to a bacon factory, an artificial insemination centre, and the animal house of a medical laboratory, with talks, discussions and films on animal welfare problems in Australia, New Zealand, Nigeria and Germany, the supply of laboratory animals, humane pest control, the training of guide dogs for the blind, humane technique in the laboratory, and slaughtering problems. All inquiries and applications to attend should be sent to Miss M. P. Williams, Universities Federation for Animal Welfare, 7a Lamb's Conduit Passage, London, W.C.1.