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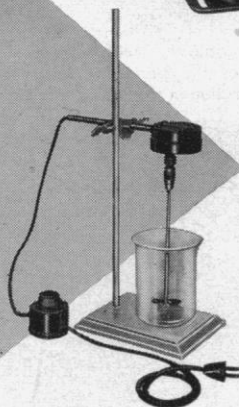
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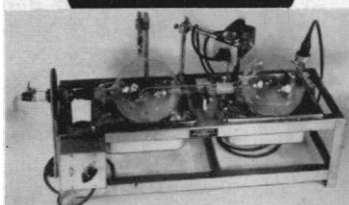
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Meetings

Science Congress at Singapore

The University of Malaya, at Singapore, was host to an international biological congress held at the university on 2-9 Dec. 1958. The congress was in celebration of the centenary of the formulation of the theory of evolution by Charles Darwin and Alfred Russel Wallace, and the bicentenary of the publication of the tenth edition of the *Systema Naturae* of Linnaeus. Singapore was a particularly appropriate site for such a meeting, since this city served Wallace as a base of operations during his 6-year sojourn in Malaya, when he formulated his concept of the mechanism of evolution.

Guests from 12 countries, representing four of the five continents, participated in the program, which lasted a full week. Sunday was taken up with conducted field trips to places on Singapore Island of special interest to biologists. The official guests were J. B. S. Haldane (Indian Statistical Institute, Calcutta), G. S. Carter (University of Cambridge), and H. G. Andrewartha (University of Adelaide). The Royal Society of London was represented by E. J. H. Corner, the British Association for the Advancement of Science by H. Munro Fox, the Zoological Society of London by R. D. Purchon, and the Institute of Biology by J. R. Audy. Purchon was chairman of the organizing committee, and Roland Sharma was general secretary.

Haldane served as president of the congress, and his presidential address, "The Theory of Natural Selection Today," provided the keynote of the program. After affirming that, after a hundred years, the concept of natural selection as an agent in evolution is more firmly established than ever, Haldane suggested that "the next great step in biology, comparable to those we are celebrating today, may be made—or may already have been made—in a tropical country." He further suggested that "the lack of complicated apparatus may even stimulate us to look at what is before our eyes."

A total of 68 papers was presented, under the general categories of evolution, parasitology and entomology, zoogeography, terrestrial ecology, fresh-water ecology, genetics, anthropology, systematics, and botany. Emphasis throughout was on evolution (especially on those aspects of evolution that can best be studied in the tropics) and on tropical ecology, especially as it affects human welfare and well-being. The necessity for understanding the ecology of the tropics—so different in many ways and so much more complex than the ecology of temperate zones—if man is to avoid disaster in his attempts to manage

tropical nature was repeatedly stressed by speakers and discussants. The University of Malaya proposes to issue a volume containing the papers read at the congress. Abstracts of the papers have already been published by the university.

Participants were given a choice of three tours to various parts of Malaya, each under the leadership of a staff member of the zoology department of the university; these enabled foreign visitors to see something of tropical biology firsthand. One tour, to the King George V National Park in north-central Malaya, was conducted by J. R. Hendrickson. The park contains 1700 square miles of virgin tropical rain forest, in which the visitors lived and worked for a week; emphasis was on tropical terrestrial ecology. A second tour, along the west coast of Malaya as far north as Penang, which was led by D. S. Johnson, explored the various types of fresh waters in Malaya and studied tropical fresh-water ecology. A third tour, to Raffles Light in the Straits of Singapore, led by R. E. Sharma, studied tropical marine ecology.

It was generally agreed that the congress was an outstanding success. It was well organized and efficiently run, and it emphasized problems that are pertinent to the tropics in general and to Southeast Asia in particular. The papers presented were of the highest calibre. In view of the fact that the University of Malaya is only 9 years old, the centenary and bicentenary congress was nothing short of a triumph.

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Chicago, Illinois*

American Statistical Association

The 119th annual meeting of the American Statistical Association will be held in Washington, D.C., 27-30 December, with headquarters at the Shoreham Hotel. The 4-day meeting will have more than 50 technical sessions covering the methodology and application of statistics in many different professional fields. The sessions are sponsored and organized by the five sections of the American Statistical Association—Biometrics, business and economic statistics, physical and engineering sciences, social statistics, and training—and by the Institute of Mathematical Statistics. This meeting will be joint with a number of other societies, among them the American Economic Association, the American Finance Association, the Biometric Society (ENAR), and the Institute of Mathematical Statistics.

Further information regarding the preliminary program and other details will be available from the American Statis-

tical Association office, 1757 K St., NW, Washington 6, D.C., later this year. The program will be under the general chairmanship of Charles D. Stewart, Deputy Assistant, Secretary of Labor, U.S. Department of Labor, Washington, D.C.

Animal Cell Biology

The fourth annual Conference on Quantitative Study of Animal Cell Biology in vitro will be conducted by the department of biophysics of the University of Colorado, 31 August-3 Septem-

ber. The course is sponsored by the Colorado division of the American Cancer Society and is open to persons with the doctorate degree who are doing research or graduate teaching in biology and medicine, and to students who are currently enrolled as candidates for the Ph.D. degree in biological disciplines.

Lectures and laboratory demonstrations illustrating the basic techniques will be presented, but major emphasis this year will be placed on application of the quantitative methodologies to problems in mammalian cell genetics and chromosome analysis, biochemistry,



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virus-host cell interaction, and radiation studies. Possible uses of these methods in clinical medicine will also be considered. Participants should possess acquaintance with the principles of sterile technique and with the philosophy of quantitative microbiology.

Because requests for admission have in the past always exceeded the available facilities, applicants, up to the limit of 50, will be accepted in order of receipt of their completed applications. Inquiries should be addressed to the Department of Postgraduate Medical Education, University of Colorado Medical Center, 4200 E. 9th Ave., Denver 20, Colo.

Mammalogists to Meet

The American Society of Mammalogists will meet 22–24 June in Washington, D.C. Sessions will be held at the U.S. National Museum Auditorium, and meeting headquarters will be at the Harrington Hotel. The program will include technical papers that cover a diversity of basic mammalogical and ecological studies carried on throughout North America. Special tours are scheduled to the Fish and Wildlife Service's Patuxent Research Refuge in Maryland and the National Zoological Park. A

banquet and a program of outstanding documentary films are planned for the evening of 23 June at the Cosmos Club. Further information may be obtained from Viola S. Schantz, General Chairman, United States National Museum, Washington, D.C.

Symposium on Hematin Enzymes

Under the auspices of the International Union of Biochemistry, a symposium on hematin enzymes is to be held in Canberra, Australia, between 31 August and 4 September 1959. The symposium is being arranged by the Australian Academy of Science, and participation is by invitation.

About 40 scientists are expected to attend. Papers will be concerned with aspects of the following topics: the biogenesis and metabolism of heme compounds; the chemistry of hemoproteins, regarded as iron complexes, and as proteins; cytochromes and cytochrome oxidase; catalases and peroxidases; the respiratory chain and cellular organization; and problems of classification and nomenclature of cytochromes. The proceedings of the symposium are to be published by Pergamon Press in a special volume.

The costs of this meeting are being

borne by the Australian Academy of Science, the International Union of Biochemistry, and the Wellcome Trust. Travel of some overseas participants is being supported by the appropriate organizations in their respective countries.

A meeting of the Cytochrome Subcommittee of the I.U.B. Commission on Enzymes is to be held in the week following the symposium.

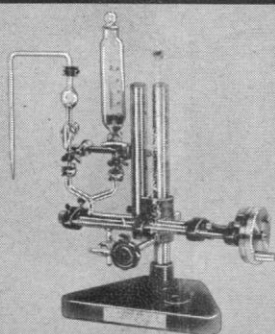
Professor R. K. Morton, Department of Agricultural Chemistry, University of Adelaide, South Australia, is convener of the organizing committee of the symposium.

Infrared Symposium

Some 300 scientists are expected to gather on 30 June at the University of Michigan, Ann Arbor, for the 44th Infrared Information Symposium. Representing industry, government, and academic institutions, they will hear presentations concerning infrared reconnaissance equipment, interpretation methods, and new concepts. The meeting will deal mainly with reconnaissance.

Attendance is by invitation; only those persons with a security clearance and a "need to know" will be admitted. The symposium is one of a continuing series of classified meetings on military appli-

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cations of infrared techniques. It is sponsored by the Office of Naval Research and is conducted under joint direction of the military services.

Thomas B. Dowd of the Office of Naval Research, Boston (495 Summer St.), is in charge of invitations. Program chairman is William L. Wolfe, head of the Infrared Information and Analysis Center at the University of Michigan's Willow Run Laboratories.

Biology Teaching

The College Entrance Examination Board Conference on Advanced Placement in Biology will take place 25-27 June at Chatham College, Pittsburgh, Pa. Collegiate and secondary-school administrators and faculty will participate in workshop sessions on the instruction of able students especially interested in biology, and will hear talks on biology curricula and teaching. In addition to a representative from the College Entrance Examination Board program in advanced placement, speakers will include Oswald Tippo, Eaton professor of biology and director of the Marsh Botanical Garden, Yale University.

The conference is open to all interested educators. Information and application blanks may be obtained by writing to the conference chairman, Dr. Phyllis C. Martin, Chairman of the Department of Biological Sciences, Chatham College, Woodland Road, Pittsburgh 32, Pa.

Forthcoming Events

July

12-17. American Waterworks Assoc., annual conv., San Francisco, Calif. (H. E. Jordan, AWA, 521 Fifth Ave., New York 17.)

13-17. National Assoc. of Power Engineers, natl. conv., Boston, Mass. (A. F. Thompson, Secretary, NAPE, 176 W. Adams St., Chicago, Ill.)

13-17. Plastic Surgery, 26th intern. cong., London, England. (D. Matthews, Organizing Secretary, Intern. Cong. on Plastic Surgery, c/o Inst. of Child Health, Hospital for Sick Children, Great Ormond St., London, W.1.)

13-17. Standardization, intern. (council meeting), Geneva, Switzerland. (ISO, 1-3, rue Varembe, Geneva.)

15. American Soc. of Facial Plastic Surgery, New York, N.Y. (S. M. Bloom, 123 E. 83 St., New York 28.)

15-17. Fluorine Chemistry, symp., Birmingham, England. (Chemical Soc. of London, Burlington House, Piccadilly, London, W.1.)

15-17. Shaft Sinking and Tunnelling, symp., Olympia, London, England. (Institution of Mining Engineers, 3, Grosvenor Crescent, London, S.W.1.)

15-18. British Assoc. of Urological Surgeons (members and guests), Glasgow,

Scotland. (Joint Secretariat, 45, Lincoln's Inn Fields, London, W.C.2, England.)

15-18. British Cong. of Obstetrics and Gynaecology, 15th, Cardiff, Wales. (BCOG, Maternity Hospital, Glossop Terrace, Cardiff.)

15-24. British Medical Assoc., Edinburgh, Scotland. (BMA, Tavistock Sq., London, W.C.1, England.)

16-24. Canadian Medical Assoc., 92nd annual meeting in conjunction with the British Medical Assoc., Edinburgh, Scotland. (A. D. Kelly, CMA, 150 St. George St., Toronto 5, Ontario, Canada.)

17. High Energy Nuclear Physics, 9th annual intern. conf. (Intern. Union of Pure and Applied Physics, Moscow, U.S.S.R.). (R. E. Marshak, Univ. of Rochester, Rochester, N.Y.)

19-24. American Crystallographic Assoc., Ithaca, N.Y. (J. Waser, Rice Inst., Houston 5, Tex.)

19-25. Pediatrics, 9th intern. cong., Montreal, Canada. (R. L. Denton, P.O. Box 215, Westmount, Montreal 6.)

20-26. Radiation and Atmospheric Ozone, joint symp., by Intern. Union of Geodesy and Geophysics and World Meteorological Organization, Oxford, England. (WMO, Campagne Rigot, 1, avenue de la Paix, Geneva, Switzerland.)

22-23. Rocky Mountain Cancer Conf., Denver, Colo. (N. Paul Isbell, 835 Republic Bldg., Denver 2.)

23-30. Radiology, 9th intern. cong., Munich, Germany. (Sekretariat des 9 Internationalen Kongresses für Radiologie, Reitmorstrasse 29, Munich 22.)

26-30. International Psychoanalytical Assoc., Copenhagen, Denmark. (Miss P. King, 37 Albion St., London, W.2.)

27-4. International Federation of Translators, Bad Godesberg, Germany. (Dritter Internationaler FIT-Kongress, Kongress Sekretariat, Bundesverband der Dolmetscher und Übersetzer e. V. (BDÜ) Hausdorfstrasse 2, Bonn, Germany.)

30-31. Computers and Data Processing, 6th annual symp., Estes Park, Colo. (W. H. Eichelberger, Denver Research Inst., Univ. of Denver, Denver 10, Colo.)

August

1-8. World Congress of Esperantists, 44th, Warsaw, Poland. (Office of Intern. Conferences, Dept. of State, Washington 25.)

4-5. American Astronautical Soc., 2nd annual western, Los Angeles, Calif. (A. P. Mayerik, AAS, 6708 53 Rd., Maspeth 78, N.Y.)

6-8. Human Pituitary Hormones, colloquium (by invitation only), Buenos Aires, Argentina. (G. E. W. Wolstenholme, Ciba Foundation, 41 Portland Place, London W.2, England.)

9-12. American Soc. of Mechanical Engineers (Heat Transfer Div.), conf., Storrs, Conn. (D. B. MacDougall, ASME, 29 West 39 St., New York 18.)

9-15. Physiological Sciences, 21st intern. cong., Buenos Aires, Argentina. (C. F. Schmidt, Univ. of Pennsylvania School of Medicine, Philadelphia 4.)

10-13. National Medical Assoc., Detroit, Mich. (J. T. Givens, 1108 Church St., Norfolk, Va.)

(See issue of 15 May for comprehensive list)