

more than 10 years. They found that larvae had developed some degree of resistance to chlordane and dieldrin but not to DDT, although DDT had been more commonly used than the other two.

Other papers are devoted to cytogenetics, behavior, and control of *Anopheles*, to malariometry, to epidemiology, to suppression and prophylaxis by drugs, and to a wide variety of topics related either directly or indirectly to the chief goal, the eradication of malaria. They represent, for the most part, papers that were prepared for the second African Malaria Conference, held in Lagos in November 1955, for the Inter-regional Conference on Malaria for Eastern Mediterranean and European Regions, and for the sixth session of the World Health Organization Expert Committee on Malaria.

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### A Guide to the Literature of Chemistry.

E. J. Crane, Austin M. Patterson, and Eleanor B. Marr. Wiley, New York; Chapman & Hall, London, ed. 2, 1957. xv + 397 pp. \$9.50.

Eleanor B. Marr, the principal author of this edition, states in her preface, "The first edition of *A Guide to the Literature of Chemistry* was the first comprehensive book to appear in its field." This was in 1927, and, 30 years later, by virtue of this second edition and of the absence of any comparable guidebook in this discipline, the *Guide* is still the most comprehensive book in its field. The vital role played by the literature in the development of chemistry and the dire need for signposts to guide the research worker through the ever-expanding maze of chemical literature make this *Guide* a "must" for the science reference collections of library, laboratory, and home. It is also intended to be used as a textbook, and as such it should find wide acclaim in those universities that offer courses not only in chemical literature but also in documentation and library science. The textbook features include discussions of basic principles and topics, emphasis on how to use each form of chemical literature, and an introduction to the art of literature searching (chapter 10 rather than chapter 8, as is indicated in the preface).

The organization of the first edition has been retained for the most part, but the entire book was rewritten, material was updated, and two chapters were added, one on trade literature and the other on Government publications. The principal chapters are entitled "Books," "Periodicals," "Patents," "Government publications," "Trade literature," "Other

sources" (biographies, bibliographies, lectures, motion pictures, reviews, scientific meetings, theses, unpublished materials), and "Indexes." In each of these chapters the chief sources are described, analyzed, and classified. Books and current journals are classified by subjects or fields (in accordance with the *Chemical Abstracts* classification of abstracts), and the journals, secondarily, by country. Abstract journals are classified separately. An 11-page chapter entitled "Libraries" furnishes a glimpse into the nature of the collections and services of the various types of libraries and outlines the principal classification systems used.

The seven appendixes contain listings of literature related to chemical literature; symbols, abbreviations, and standards used in chemical literature; libraries (U.S. and Canadian with notations indicating the extent of chemical collections and of the services provided); periodical bibliographies; scientific and technical organizations; periodicals of chemical interest (although the list contains only periodicals that were discontinued before 1910); dealers and publishers. One might suggest that some of these appendixes, especially 1, 3, and 5, could serve a better purpose by being integrated within the text under their related topics.

One may hope that publication of the third edition of the *Guide* will not await the passage of another 30 years, for the saturation point in chemical literature output is not yet in sight. E. J. Crane, in anticipation of a third edition, states in his foreword to the *Guide* that this "will be completely Miss Marr's. . . . The book is moving into good hands."

CHARLES M. GOTTSCHALK

Library of Congress

**An Introduction to Electrostatic Precipitation in Theory and Practice.** H. E. Rose and A. J. Wood. Constable, London, 1956 (order from Essential Books, Fair Lawn, N.J.). 166 pp. Illus. \$2.80.

In this monograph H. E. Rose and A. J. Wood have covered the present state of the precipitation "art," both from a theoretical and practical point of view. Equipment is described, electrical theory is developed, practice and theory are compared, and the many problems of design calculation are reviewed. The authors have generally discussed and correlated the important literature in the field and have evaluated it in an unbiased manner. Where opinions could be expressed, they have added their own, with the careful judgment of those who write in a field with which they are well acquainted.

This work fills a gap that has long existed. Anyone who is working in this or in a related field will find the book easy to read, well prepared, and stimulating.

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**Precision Electrical Measurements.** Proceedings of an international symposium on precision electrical measurements, National Physical Laboratory, 17-20 November 1954. Philosophical Library, New York, 1956. 26 papers. \$12.

This volume contains the proceedings of the international symposium on Precision Electrical Measurements, which was held at the National Physical Laboratory, Teddington, England, in November 1954. The majority of the 26 papers presented are the work of staff members of the National Physical Laboratory, the National Bureau of Standards, and their counterparts in other countries. These laboratories were created largely to undertake precision measurements and to develop techniques for such measurements. This symposium testifies to the vigor with which these objectives are being pursued. But progress is necessarily uneven, and so we have the curious spectacle of a paper on the use of nuclear magnetic resonance—a very precise tool—in the measurement of magnetic fields side by side with a discussion of the use of sphere gaps—not very precise tools—in the measurement of high voltages.

The papers are divided into five sections. A summarized version of the discussion ends each section. Five papers in the section on "Capacitance and dielectrics" cover measurements of solids, liquids, and gases over a wide frequency range. "Inductance and magnetism" includes six papers on the measurement of magnetic properties at both low and high frequencies. "Electrotechnics" is concerned largely with the measurement of power. "High-voltage measurements" includes papers on measurement of direct, alternating, and impulse voltages. The last section, "High-voltage impulse testing techniques," devotes three of its six papers to the problem of breakdown in transformers.

The subject matter of the symposium is of direct interest to the electrical industry. Those members of the industry who are concerned with making electrical measurements will find here a clear exposition of techniques employed at the national laboratories and at industrial laboratories throughout the world. The authors make full use of circuit diagrams, graphs, and photographs in de-

scribing their methods and results and give references to the pertinent literature in the field. The vigorous discussions add notably to the subject matter. Altogether, this volume should furnish a welcome guide to the current status of precision electrical measurements.

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**The Horse-Flies (Diptera: Tabanidae) of the Ethiopian Region.** vol. III. *Subfamilies: Chrysopinae, Sepsidinae, and Pangoniinae and a revised classification.* H. Oldroyd. British Museum (Natural History), London, 1957. 489 pp. Illus. + plates. £4 10s.

This is the final and largest volume of this splendid series. The revised classification is based largely on the recent work of Mackerras in Australia, in which the anatomy of the male and female genitalia has been used very effectively. There are valuable chapters on morphology, feeding of adult flies, relationships of species of the genus *Chrysops* to the filarial disease loasis, geographical distribution, and phylogeny. The greatest part of the volume is devoted to the systematic treatment of the 228 species in 12 genera, with keys, descriptions, and excellent figures. A final section presents additions and corrections to the first two volumes.

It is unfortunate that this work, so excellent from a zoological standpoint, should be marred by a frank unwillingness to follow the International Rules of Zoological Nomenclature. It is true that establishing the correct names under the rules is often irksome and time consuming, but failure to do so causes far greater annoyance in the long run. The problems are not insoluble, but they become more difficult when those who should be interested in nomenclatorial stability pin their faith on haphazard usage that will never lead to such stability if it is at variance with the rules. Unwillingness to change well-established names is understandable, but it is difficult to see what is gained by not following simple, unambiguous rules such as the use of parentheses around authors' names when there has been a generic transfer, or making an adjectival specific name conform in gender with the associated generic name.

This volume and the two preceding ones greatly increase our knowledge of the Ethiopian horsefly fauna and provide much valuable information on the zoogeography and phylogeny of the family.

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## New Books

*A History of Luminescence from the Earliest Times until 1900.* Memoir, vol. 44. E. Newton Harvey. American Philosophical Society, Philadelphia, 1957. 705 pp. \$6.

*Annual Review of Plant Physiology.* vol. 8. A. S. Crafts, Leonard Machlis, John G. Torrey. Annual Reviews, Palo Alto, Calif., 1957. 477 pp. \$7.

*Veterinary Guide for Farmers.* G. W. Stamm, Dalls S. Burch, Ed. Windsor, Chicago, Ill., ed. 3, 1957. 384 pp. \$3.95.

*Applied Probability.* vol. VII of *Proceedings of Symposia in Applied Mathematics*, McGraw-Hill (for American Mathematical Society), New York, 1957. 109 pp. \$5.

*The Amateur Astronomer.* Patrick Moore. Norton, New York, 1957. 351 pp. \$4.50.

*Chimica Generale e Inorganica.* Giuseppe Bruni. Libreria Editrice Politecnica Tamburini, Milan, Italy, ed. 10, 1957. 790 pp.

*A Theory of the Consumption Function.* National Bureau of Economic Research, No. 63, General Series. Milton Friedman. Princeton University Press, Princeton, N.J., 1957. 259 pp. \$4.75.

*Technical Descriptive Geometry.* B. Leighton Wellman. McGraw-Hill, New York, 1957. 640 pp. \$5.75.

*Quality Control and Statistical Methods.* Edward M. Schrock. Reinhold, New York; Chapman & Hall, London, ed. 2, 1957. 259 pp. \$6.75.

*The Theory of Lie Derivatives and Its Applications.* Bibliotheca Mathematica, vol. III. Kentaro Yano. North-Holland, Amsterdam; Noordhoff, Groningen; Interscience, New York, 1957. 309 pp. \$8.75.

*High-Speed Small Craft.* Peter Du Cane. Philosophical Library, New York, ed. 2, 1957. 336 pp. \$15.

*William Harvey.* His life and times, his discoveries, his methods. Louis Chauvois. Philosophical Library, New York, 1957. 271 pp. \$7.50.

*Genetics.* Edgar Altenburg. Holt, New York, rev. ed., 1957. 511 pp. \$6.50.

*Plant and Process Dynamic Characteristics.* Proceedings of a conference held at Cambridge 4-6 April 1956 by the Society of Instrument Technology. Academic Press; New York; Butterworths, London, 1957. 258 pp. \$8.80.

*The Person in Psychology. Reality or Abstraction.* Paul LaFitte. Philosophical Library, New York, 1957. 243 pp. \$6.

*A Visit to the Hospital.* Francine Chase. Grosset & Dunlap, New York, 1957. 68 pp.

*Health and Medical Care in New York City.* A report by the Committee for the Special Research Project in the Health Insurance Plan of Greater New York. Harvard University Press (for the Commonwealth Fund), Cambridge, Mass., 1957. 284 pp. \$7.50.

*Glossary of Geology and Related Sciences.* J. V. Howell, Coordinating Chairman. American Geological Institute, 2101 Constitution Ave., NW, Washington, D.C., 1957. 335 pp. \$6.

*Quantum Mechanics.* H. A. Kramers. Translated by D. ter Haar. North-Holland, Amsterdam; Interscience, New York, 1957 (5 chapters of pt. 1 published separately as *The Foundations of Quantum Theory*). 512 pp. \$12.50.

*The Aleut Dentition.* A correlative study of dental characteristics in an Eskimoid people. Coenraad F. A. Moorrees. Harvard University Press, Cambridge, Mass., 1957. 206 pp. \$4.50.

*Vector Spaces and Matrices.* Robert M. Thrall and Leonard Tornheim. Wiley, New York; Chapman & Hall, London, 1957. 330 pp. \$6.75.

*Elementary Theory of Angular Momentum.* M. E. Rose. Wiley, New York; Chapman & Hall, London, 1957. 258 pp. \$10.

*Chemistry of the Covalent Bond.* Lealyn B. Clapp. Freeman, San Francisco, 1957. 698 pp. \$7.50.

*Limited War: the Challenge to American Strategy.* Robert E. Osgood. University of Chicago Press, Chicago, 1957. 326 pp. \$5.

*Modern Applied Photography.* G. A. Jones. Philosophical Library, New York, 1957. 168 pp. \$4.75.

## Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

*Viruses in Search of Disease.* Annals, vol. 67, art. 8. Robert J. Huebner, Ed. 238 pp. \$5. *Unstable Chemical Species: Free Radicals, Ions, and Excited Molecules.* Annals, vol. 67, art. 9. Henry C. Thacher, Jr. Consulting Ed. 224 pp. \$4. *Meprobamate and Other Agents Used in Mental Disturbances.* Annals, vol. 67, art. 10. Frank M. Berger, Consulting Ed. 224 pp. \$4. *Man-Made Fiber Progress.* Annals, vol. 67, art. 11. J. J. Press, Consulting Ed. 86 pp. \$3. New York Academy of Sciences, New York, 1957.

*Financial Accounting for Local and State School Systems.* Standard receipt and expenditure accounts. State Educational Records and Reports Series, Handbook 11. Bull. 1957, No. 4. Compiled by Paul L. Reason and Alpheus L. White. \$1. *Engineering Enrollments and Degrees, 1956.* Circular No. 494. Sidney J. Armory and Henry H. Armsby. 45 pp. \$0.40. *School District Reorganization Policies and Procedures.* Special Series No. 5. C. O. Fitzwater, 321 pp. \$1.75. Office of Education, Washington, 1957 (order from Supt. of Documents, GPO, Washington 25).

*A Directory of Medical and Biological Research Institutes of the USSR.* Preliminary edition. 38 pp. *Medical Research in the Soviet Union.* Recent reports from Western sources. A selected and annotated list of references. Compiled by Elizabeth Koenig. 24 pp. National Institutes of Health, Washington 25, 1957.

*The Industrial Chemistry, Properties, and Application of Silicones.* Edgar Marburg lecture, 1956. Charles E. Reed. American Society for Testing Materials, Philadelphia, 1957. 47 pp.