

when it is used, the results be interpreted in terms of reducing substances present.

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Note on the Chemistry of Dramamine

In the treatment of various allergies by the antihistaminic drugs which have appeared so profusely in the last few years, there have been observed undesirable side reactions, such as drowsiness, which detract from their usefulness. Attempts have been made with certain of the antihistamines to offset the drowsiness by chemical combination with the methyl xanthines, selected because of their central nervous stimulating properties. Because of the low ionization constants of the methyl xanthines, however, no stable salts were obtained.

The chemical problem has been solved in the case of β -dimethylaminoethyl benzohydril ether (Dramamine) by

the use of 8-chlorotheophyllin, which has a high enough ionization constant to form a stable salt.

The salt is readily made by dissolving the 8-chlorotheophyllin with a slight excess of the base in any suitable hot organic solvent, such as methyl ethyl ketone or ethanol. On cooling, it precipitates as a nice sandy material in almost quantitative yield based on 8-chlorotheophyllin, mp 101–3° C, empirical formula $C_{24}H_{30}O_3N_5Cl$.

Analysis:	Theory %		Found %	
Chlorine	7.55	7.45	7.46	7.51
Basic N	2.98	2.98	2.98	
8-Chlorotheophyllin	45.67	45.65	45.62	

The use of this compound in preventing motion sickness was reported by Leslie N. Gay and Paul E. Carliner at the meeting of the Johns Hopkins Medical Society, February 14, 1949, and a statement was published in *Science*, April 8, 1949.

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Association Affairs

K. Lark-Horovitz, head of the Department of Physics and director of the Physical Laboratory at Purdue University, has been elected general secretary of the AAAS for the term ending 1952. His election follows a brief period of service to complete the unexpired term of the late Otis W. Caldwell.

Dr. Lark-Horovitz is best known for his researches in the physics of solid state and nucleonics and for his recent experimental investigations and theoretical interpretations of the behavior of electronic semiconductors. He is chairman of the Cooperative Committee on the Teaching of Science for the association and was one of the contributors to Vol. IV of the President's Scientific Research Board Report.

The new secretary will also serve on the Publications Committee.

Affiliated and Associated Societies¹ Meeting with the AAAS New York, December 26–31

Nearly all of the affiliated and associated societies meeting with the American Association for the Advancement of Science at its 116th Annual Meeting in New York City, December 26–31, 1949, have reported the preliminary estimates of their session room requirements. The following list of individual meetings is compiled from the reports of the secretaries of these societies and sections. (The exact dates of each within the six-day period are tentative in only a few instances.)

AAAS.—Presidential Session and Reception of AAAS, evening of Dec. 28; Symposia sponsored by AAAS, after-

noon of Dec. 29. (Association headquarters hotel, Statler.)

A—Mathematics.—American Mathematical Society, Dec. 27–29; Institute of Mathematical Statistics;² Mathematical Association of America, Dec. 29, 30. (Mathematicians Headquarters hotel, Governor Clinton.)

B—Physics.—Section B, Dec. 29, 30.

C—Chemistry.—Section C, Dec. 29–31. Phi Lambda Upsilon.

D—Astronomy.—Section D.

E—Geology and Geography.—Section E and Geological Society of America, joint meeting; American Geographical Society of New York; Association of American Geographers; National Geographic Society, Annual Lecture, afternoon of Dec. 27.

F—Zoological Sciences.—Section F; American Society of Parasitologists, Dec. 27–29 (including demonstrations at Columbia); American Society of Zoologists, Dec. 28–30; Society of Systematic Zoology, Dec. 29. Zoologists' headquarters hotel, Statler.)

FG—Zoological and Botanical Sciences.—American Microscopical Society, Dec. 27 and 30; American Society of Limnology and Oceanography, Dec. 28–30; American Society of Naturalists, Dec. 30 (Biologists' smoker probably Dec. 29); Beta Beta Beta Biological Fraternity, Dec. 28; Biometric Society, Eastern North American Region; Ecological Society of America, Dec. 27–29; Genetics Society of America, Dec. 28–30 (including demonstrations at Columbia); American Society of Human Genetics; National Association of Biology Teachers, Dec. 27–30; Society for the Study of Evolution, Dec. 27–30, a panel discussion of "Botany in the Service of Mankind."

¹ Notices of the dates and places of the meetings of affiliated and associated societies, not meeting with the AAAS, appear in *Science* and *The Scientific Monthly* whenever that information is sent in directly to the editorial offices.

² These societies also are participating in the programs of the Allied Social Science Association organizations which are meeting at the same time in the Grand Central Zone of New York City.

G—Botanical Sciences.—Section G, Dec. 29; American Phytopathological Society, Dec. 27–30; American Society of Plant Physiologists, Dec. 27–29; American Society of Plant Taxonomists, Dec. 27–30; Botanical Society of America, Dec. 26–30; Mycological Society of America, Dec. 27–30; Torrey Botanical Club; American Fern Society; American Bryological Society, Dec. 27–28; Physiological Society of America, Dec. 27–28. (Plant sciences headquarters hotels, McAlpin and adjacent Martinique.)

I—Psychology.—Section I, Dec. 27–28 (including joint meeting with Section Q); Society for Research in Child Development, Dec. 28–29.

K—Social and Economic Sciences.—Section K; Academy of World Economics and American Economic Association,² joint meeting, Dec. 28; American Sociological Society, Dec. 27–29; American Statistical Association;² Econometric Society;² Pi Gamma Mu; Metric Association, Dec. 30.

L—History and Philosophy of Science.—Section L and Philosophy of Science Association, joint meeting, Dec. 29–30.

M—Engineering.—Joint meetings of Section M and Instrument Society of America, Dec. 26; Technical Society Council of New York, Dec. 27; Metropolitan Section of American Society of Mechanical Engineers, Dec. 30.

N—Medical Societies.—Section N; Subsection Np, Pharmacy, Dec. 27, 28; Alpha Epsilon Delta Premedical Honor Society, Dec. 27; American Dietetic Association.

Q—Education.—Section Q, Dec. 27, 28 (including joint meeting with Section I); National Science Teachers Association, Dec. 27–30. Science Teaching Societies affiliated with the AAAS, i.e., ANSS, NABT, NSTA and the Cooperative Committee of the AAAS, will hold joint meetings Dec. 27–29; (Science Teaching, Education and Psychology headquarters hotel, New Yorker).

X—General Science Societies.—American Nature Study Society, Dec. 27–30 (including an all-day Field Trip, the last day); Honor Society of Phi Kappa Phi, Dec. 28, 29; National Association of Science Writers; Sigma Delta Epsilon, Graduate Women's Scientific Fraternity, Dec. 28, 29; The Society of the Sigma Xi, Dec. 27 including the annual address in the evening.

Nearly all the Association's 17 Sections and Subsections are planning strong programs (synopses of the Section programs will appear in *Science* shortly). A special committee of the Executive Committee of the American Association for the Advancement of Science is arranging for the symposia in the fields of biology and physical sciences. There are numerous joint meetings and several symposia planned by the societies themselves—including one on experimental cell research, and the coordinated program of the science teaching societies in conjunction with the AAAS Cooperative Committee.

It is already apparent that the 1949 Annual Meeting will be one of the best balanced and most convenient in the Association's 101-year history. It has been possible, for instance, to concentrate the zoological and medical meetings in the Statler and nearby Governor Clinton,

the educational, science-teaching and psychological meetings in the New Yorker, and all of the plant sciences in the McAlpin and adjacent Martinique. A few societies such as the mathematical groups and the Ecological Society of America, that particularly desire academic classrooms, will be accommodated in Columbia University (20 minutes away from the Penn Zone on the Broadway-Seventh Avenue or West Side subway).

Firms and other organizations of service to science have recognized that this will be one of the best attended meetings. At this time, seven months in advance, the following already have made definite arrangements to exhibit in the Penn Top of the Hotel Statler: The Albino Farms; American Book Company; American Cancer Society; American Optical Company; Appleton-Century-Crofts, Inc.; The Association of American University Presses; Bausch and Lomb Optical Company; Biological Abstracts; The Blakiston Company; Bussey Products Company; Cambridge Instrument Company, Inc.; Carolina Biological Supply Company; Fred S. Carver, Inc.; Central Scientific Company; Cinchona Products Institute, Inc.; Coreco Research Corporation; Thomas Y. Crowell Company; Denoyer-Geppert Company; International Business Machines Corporation; Eastman Kodak Company; Gamma Scientific Company; General Biological Supply House, Inc.; Harper and Brothers; Jarrell-Ash Company; Kahl Scientific Instrument Corporation; E. Leitz, Inc.; The Linguaphone Institute; J. B. Lippincott Company; The Macmillan Company; McGraw-Hill Book Company, Inc.; G. & C. Merriam Company; The C. V. Mosby Company; National Geographic Society; National Spectrographic Laboratories, Inc.; New York Scientific Supply Company, Inc.; Nuclear Instrument and Chemical Corporation; The Nucleonic Corporation of America; Pfaltz and Bauer, Inc.; Philosophical Library; Prentice-Hall, Inc.; The Rayoscope; Rinehart and Company, Inc. and Murray Hill Books, Inc.; W. B. Saunders Company; Schwarz Laboratories, Inc.; The Squibb Institute for Medical Research; The Technicon Company; Tracerlab, Inc.; Ward's Natural Science Establishment, Inc.; W. M. Welch Scientific Company; and John Wiley and Sons, Inc.

Advance registration and hotel room reservation will begin in September. There will be coupons in *Science* for both. The New York Convention Bureau will handle the reservations and the hotels will send prompt confirmations directly.

The Advisory Board of the Gordon Research Conferences has elected Charles N. Frey, director of Scientific Relations of Standard Brands, Inc., and Herman Mark, director of the Institute of Polymer Research and professor of organic chemistry, Polytechnic Institute of Brooklyn, to the Management Committee of the conferences. The Executive Committee of the AAAS has confirmed the election. Dr. Frey and Professor Mark succeed Dean Burk, National Institutes of Health, and George Calingaert, director of chemical research at the Ethyl Corporation, who will retire next September.