

SCIENCE

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<i>Scientific Research Bills before the United States Senate</i>	411	<i>Discussion:</i>	
<i>Obituary:</i>		<i>The Effect of Motion Pictures on Body Temperature:</i> DR. N. KLEITMAN. "This is the Enemy": PROFESSOR ARTHUR D. HASLER. <i>Science in Russia:</i> J. G. TOLPIN	430
<i>Hugh Hampton Young:</i> DR. JOHN A. BENJAMIN	416	<i>Scientific Books:</i>	
<i>Scientific Events:</i>		<i>Meteorology:</i> DR. C. W. THORNTON. <i>The Chemical Formulary:</i> PROFESSOR W. D. TURNER. <i>Books Received</i>	432
<i>Awards of the American Institute of Nutrition; In Honor of Dr. Ernst A. Bessey; News from Abroad</i>	417	<i>Science News</i>	14
<i>Scientific Notes and News</i>	420		
<i>Special Articles:</i>			
<i>The Action of Horseradish-Peroxidase on Angiotonin, Pepsitensin and Epinephrine:</i> DR. O. M. HELMER and DR. K. G. KOHLSTAEDT. <i>On the Origin and Fate of the Fatty Inclusions in a Strain of Bacillus cereus:</i> DR. GEORGES KNAYS. <i>The Relationship of the Agent of Heart-Water Fever Rickettsia Ruminantium:</i> DR. G. W. RAKE, DR. R. ALEXANDER and DR. DOROTHY M. HAMRE. <i>The Comparative Antifouling Efficacy of DDT:</i> G. W. SEAGREN, M. H. SMITH and DR. G. H. YOUNG. <i>The Effect of Penicillin on the Lethal Action of Meningococcal Endotoxin in Experimental Animals:</i> DR. ALDEN K. BOOR and DR. C. PHILLIP MILLER. <i>Physiological Comparison of Two Strains of Penicillium:</i> PROFESSOR ROBERTSON PRATT and DR. JEAN DUFRENOY	422		
<i>Scientific Apparatus and Laboratory Methods:</i>			
<i>The Histochemical Localization of Adenosinetriphosphatase in Plant and Animal Tissues:</i> DR. DAVID GLICK and ERNA E. FISCHER	429		

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SCIENTIFIC RESEARCH BILLS BEFORE THE UNITED STATES SENATE

IN the October 12 issue of SCIENCE, the hearings on the science Bills currently before the Senate were briefly described, but scientists who have not had access to the Senate's Subcommittee Print entitled "Legislative Proposals for the Promotion of Science" and to the Vannevar Bush report entitled "Science, the Endless Frontier," may not have full comprehension of the scope of the proposed legislation or of all the issues involved. For this reason, and in response to specific requests, the American Association for the Advancement of Science presents, with some editorial changes, a memorandum which was prepared for the biologists and agriculturists.

HOWARD A. MEYERHOFF

AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

MEMORANDUM CONCERNING THE SCIENTIFIC RESEARCH BILLS NOW BEFORE THE UNITED STATES SENATE

A discussion of the provisions of the five Bills now before the Senate concerning federal support of science is of immediate interest and value partly because the situation is complicated by the varied provisions of the different Bills, and partly because the whole situation is being carefully studied by the large staff of the Senate Subcommittee on War Mobilization and comprehensive amendments are likely.

It is evident that the Senators interested are anxious to promote the fullest discussion of the measures and would welcome any comments which scientists may care to make. All letters should be sent to both Senator Magnuson and Senator Kilgore at the Senate

ment of a theme but refers the student to a German reference. Not only does he overestimate the language training of our high-school graduates but their training in mathematics as well.

The author has not taken the trouble to become acquainted with the American literature. He refers to the *Monthly Weather Review* scarcely a half dozen times, yet for many years it was a primary source of material on climatological methodology. By way of contrast, we may cite the work of Geiger,² one of his former colleagues, who obtained 60 out of a total of 82 references to frost from the *Monthly Weather Review*. Apparently the author has not examined the few citations to American literature that he has included. For example, he says (p. 95) that he could not find a proper definition of killing frost in the available literature and quotes a definition given to him by a colleague. The quoted definition is a paraphrase of one by W. G. Reed in "Frost and the Growing Season," a part of the Atlas of American Agriculture, to which the reader is referred. Only in one other place, in a footnote in the conclusion of the book, does he cite the Climatic Section of the Atlas of American Agriculture. Here he calls it a "monumental work" and promises the reader "a rich source of different methods of representation," but he cites the work incorrectly and does not mention J. B. Kincaid, the author of the principal parts.

No book for use in this country dealing with the application of statistics to climatology should fail to make use of the innumerable articles that have appeared in the *Monthly Weather Review* during the last 30 years.³ Perhaps Professor Conrad intends to issue a second edition of his book. If so, it is hoped that he will become acquainted with our literature and consider the needs of our students during its preparation.

C. W. THORNTWHAITE

THE CHEMICAL FORMULARY

The Chemical Formulary. Vol. VII. By H. BENNETT, editor-in-chief. xxxii + 474 pp. Brooklyn,

²Rudolf Geiger, *Das Klima der bodennahen Luftschicht*. Die Wissenschaft. Vol. 78, Braunschweig, Vieweg, 1927.

³A single volume of the *Monthly Weather Review* (v. 44, 1916) contains the following articles: C. F. Marvin, "Elementary Notes on Least Squares, the Theory of Statistics and Correlation, for Meteorology and Agriculture." Vol. 44, Oct., 1916, pp. 551-569; William Gardner Reed, "Weather Insurance," Vol. 44, Oct., 1916, pp. 575-580, and "The Probable Growing Season," Vol. 44, Sept., 1916, pp. 509-512; William G. Reed and Howard R. Tolley, "Weather as a Business Risk in Farming," Vol. 44, June, 1916, pp. 354-355; W. J. Spillman, H. R. Tolley and W. G. Reed, "The Average Internal Curve and its Application to Meteorological Phenomena," Vol. 44, Apr., 1916, pp. 197-200; Howard Ross Tolley, "Frequency Curves of Climatic Phenomena," Vol. 44, Nov., 1916, pp. 634-642.

N. Y.: Chemical Publishing Company, Inc. 1945. \$6.00.

THIS is the seventh volume of the series, and as in previous volumes the editor-in-chief has had the assistance of an editorial board of about fifty assistant editors in industrial and educational organizations. A footnote to the preface states that all the formulae in volumes I to VII are different except for a few typical cases used in the introduction to illustrate directions and advice for new users of the volumes.

The fields covered in the present volume include adhesives, beverages, cosmetics, emulsions, foods, inks, lubricants, materials of construction, metals and alloys, paints and varnishes, pyrotechnics and explosives, rubber, plastics, detergents, textiles, etc.

The directory of sources of chemicals and supplies in the present volume now numbers 606 sources. This will prove of value to users of the volume, since many of the substances mentioned in formulae throughout the book are trademarked or copyrighted "trade names" and could not be secured on the open market either by reason of their compound nature or secret composition. The editor feels justified in including such substances, since without them many ideas and processes offered in formulae of specialty producers would have been automatically eliminated.

A large number of the formulae and compositions presented in the present volume are taken from the patent literature. In most cases the original patent number is given so that users of these formulations may refer to the original sources. Those who are familiar with the use or application of such formulae will recognize the generally limited usefulness of such patented disclosures.

Tables of weights and measures, a list of foreign sources of chemicals and an index of nearly 2,000 entries complete the present volume. Previous volumes have been widely reviewed in technical and trade publications such as *American Dyestuffs Reporter*, *Electrochemical Society Bulletin*, *Modern Plastics*, *Rubber Age*, etc., and have received favorable comment. The present volume is a timely addition to the series and will doubtless find wide acceptance among chemists and technologists throughout the industry.

Volume VI has been reviewed in *SCIENCE*, and previous volumes have been widely reviewed in technical and trade publications and have received favorable comment.

W. D. TURNER

COLUMBIA UNIVERSITY

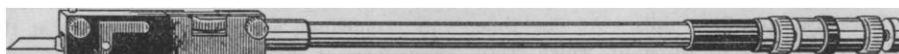
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Proceedings of the American Philosophical Society. Pp. 542. The American Philosophical Society. 75¢. 1945.
Universidad de Antioquia, Numeros 71-72. Pp. 584. Colombia.

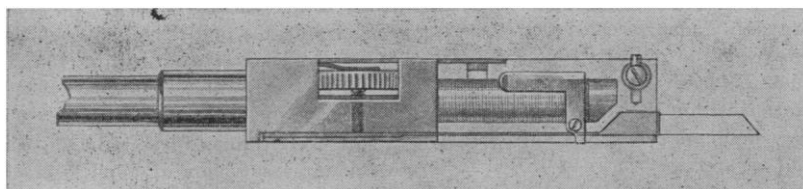
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