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HENRY MARSHALL LEICESTER (1906-1991)

A Memorial Tribute

George B. Kauffman, California State University - Fresno

Henry Marshall Leicester, Professor Emeritus of Biochemistry at the Dental School of the University of the Pacific and an internationally renowned authority on the history of chemistry and the biochemistry of teeth, died peacefully in his sleep at his home in Menlo Park, California on 29 April 1991 at the age of 84. He had suffered from Parkinson's disease for almost two decades, but he remained active and alert until the end.

Born in San Francisco, California on 22 December 1906 (the year of the earthquake and fire), Henry was the youngest of the three children of self-taught tax attorney John Ferard Leicester, formerly from England, and Elsie Hamilton Allen Leicester, a secretary and later an heiress, formerly from Virginia. His talent for self-expression probably derived from his father's influence, while his patience and quiet courtesy were due to his mother's influence. His interest in hiking, especially in the Sierras, stemmed from his parents, who were both among the earliest members of John Muir's Sierra Club.

A precocious youth, he graduated early from San Francisco's Lowell High School and at the age of 16 entered Stanford University, from which he received his A.B. (1927), M.A. (1928), and Ph.D. degrees (1930, in organic chemistry), the last at the age of 24. Because of the scarcity of permanent positions during the Depression he spent the next eight years in a variety of activities - travel in Europe (including research in Zürich and London), a year as Instructor at Oberlin College, part of a year at the Carnegie Institution in Washington, and one and three years as Research Associate at Stanford and the Midgley Foundation at Ohio State University, respectively.

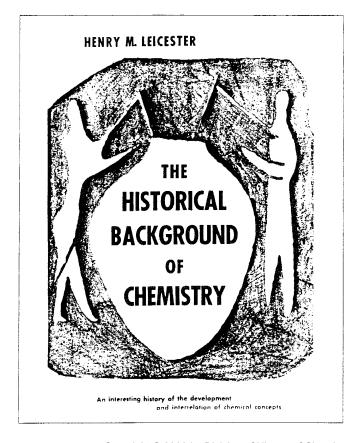
During this period he published six articles on selenium compounds (two with F. W. Bergstrom, based on his dissertation research) (1, 2, 5, 7, 9, 10), one on carotene (with Harry N. Holmes) (3), one on betulin derivatives (with 1939 Nobel chemistry laureate Leopold Ruzicka) (4), one on polystyrene (with Thomas Midgley Jr. of tetraethyllead and CFC fame) (6), and two on organic fluorine compounds (with Albert L. Henne) (8, 11).

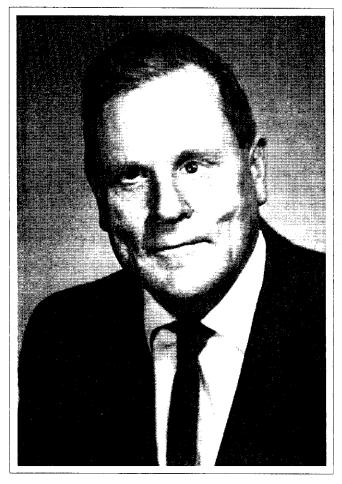
While at Ohio State University, Henry found a complete set of the Journal of the Russian Physico-Chemical Society, which aroused his interest in the lives and works of Russian chemists, an area in which he became the undisputed American authority. He corresponded actively with colleagues in the Soviet Union, and he amassed a unique collection of Russian books on the history of science, which he later donated to the Stanford Library. In 1971, when I attended the XIIIth International Congress of the History of Science in Moscow, all the Russians asked where Henry was, and it was then that I was surprised to

learn that he had never visited the Soviet Union.

His first contribution to the history of chemistry, a study of Aleksandr Mikhailovich Butlerov, a pioneer in structural organic chemistry (12), was the first of his 17 articles in the Journal of Chemical Education (12-14, 18, 19, 23, 29, 32, 33, 36, 39, 46, 50, 61, 65, 73, 88), all but six on Russian chemists such as Butlerov (12, 65), Nikolai Nikolaevich Zinin (13), Vladimir Vasil'evich Markovnikov (14), Tobias Lowitz (19), Max Abramovich Blokh (23), Dmitri Ivanovich Mendeleev (33,61), Germain Henry Hess (50), and Mikhail Vasil'evich Lomonosov (88). Henry served as a member of the journal's Editorial Board from 1949 to 1959. He also contributed biographies of Lomonosov (69), Butlerov (70), and Mendeleev (71) to 1964 Dexter awardee Eduard Farber's Great Chemists (Interscience: New York, 1961). In 1962 he received the Seventh Dexter Award in the History of Chemistry; his acceptance address was entitled "Some Aspects of the History of Chemistry in Russia" (73).

In 1941 Henry began his permanent association with the College of Physicians and Surgeons, San Francisco (now the Dental School of the University of the Pacific), where he was Professor of Biochemistry, a position that he held until his retirement in 1977. He served as Chairman of the Department of Physiology and the Department of Biochemistry and as Head of the Research Program, and he was honored for excellence in teaching in 1972. Since the 1940s he was active





Henry Marshall Leicester (1906-1991)

in the American Chemical Society's Division of History of Chemistry, presenting numerous papers, serving as Chair (1947-1951), and being involved in divisional affairs until his retirement. He was one of the founders and a member of the Editorial Board of *Chymia: Annual Studies in the History of Chemistry*, to which he contributed four articles. These dealt with Mendeleev and the periodic law (31), a biographical tribute to Tenney L. Davis (with longtime friend Herbert S. Klickstein) (42), the spread of Lavoisier's "new chemistry" in Russia (63), and biochemical concepts among the ancient Greeks (68). He served as Editor-in-Chief for Volumes 3 (1950) through 12 (1967), the final volume of this journal in book format.

Henry was the author, editor, or translator of seven books, several of which I have been privileged to review - *Biochemistry of the Teeth* (35) - the standard textbook on the subject for two decades; A Source Book in Chemistry 1400-1900 - with Herbert S. Klickstein (51); The Historical Background of Chemistry (57) - his most popular book; Discovery of the Elements, 7th ed. (85); Source Book in Chemistry, 1900-1950 (86); Mikhail Vasil' evich Lomonosov on the Corpuscular

A SOURCE BOOK IN CHEMISTRY

1400-1900

Henry M. Leicester
University of the Pacific
AND

Herbert S. Klickstein

Edgar Fahs Smith Library in the History of Chemistry
University of Pennsylvania

HARVARD UNIVERSITY PRESS Cambridge, Massachusetts

Theory (89); and Development of Biochemical Concepts from Ancient to Modern Times (104).

Henry also contributed one article to *Collier's Encyclope-dia Americana* (74), seven articles to the *Encyclopaedia Britannica* (76-82), 21 biographies to the *Dictionary of Scientific Biography* (1970-1978) (90-99, 101-103, 105, 106, 108, 116-118, 121, 122), seven biographies to Wyndham Miles' *American Chemists and Chemical Engineers* (109-115), and a

Edited by Henry M. Leicester
University of the Pacific

SOURCE BOOK IN CHEMISTRY 1900-1950

Harvard University Press

Cambridge, Massachusetts
1968

number of articles to the *Academic American Encyclopedia* (124, 125) and other books (45, 58, 60, 66, 83). In addition to his historical studies, he was an authority on caries (16, 17, 25, 26, 40, 43, 44, 48, 59) and the biochemistry of teeth (21, 24, 28, 52, 53, 56, 62, 75). An active advocate of water fluoridation (20, 37, 54) during the 1950s and 1960s, he traveled around California to speak on the subject at community meetings. He was the author of a book (89) and eight articles on Lomonosov (69, 72, 84, 88, 100, 107, 119, 126); the last of his 118 articles, "The Scientific Poetry of Lomonosov," appeared in 1987 (126).

Mikhail Vasil'evich Lomonosov on the Corpuscular Theory

Translated, with an Introduction, by Henry M. Leicester

Harvard University Press, Cambridge, Massachusetts, 1970

A patient, tolerant, and easily approachable man with a delightful sense of humor, Henry bore his immense erudition without a trace of pretentiousness. During the more than three decades that I knew him, I had numerous occasions to make use of his expertise. As a young novice in the history of chemistry, before embarking on my study of Alfred Werner and coordination chemistry in the early 1960s, I consulted Henry about the feasibility of my project, and I benefited greatly from his sage advice and warm encouragement. When I needed an English translation of II'ya II'ich Chernyaev's long article on the trans effect for Volume 3 of my Classics in Coordination Chemistry, Part III (123), I naturally turned to Henry and was delighted with the result (pp. 151-195). And before beginning an article on Lomonosov (J. Chem. Educ. 1988, 65, 953), I asked Henry for reprints of his pertinent papers, for he was the universally acknowledged American expert on this founder of Russian science.

In 1941 Henry married Leonore Azevedo (1914-1974), whom he had met at the International Students' House at

Stanford (both were members of the Stanford International Club). Their interest in people from other lands endured throughout their 33-year marriage. They participated in potluck dinners for international guests, and they took Chinese lessons together. Henry had taken courses in Russian while still a student, and Leonore took Spanish lessons. The couple went folk dancing every Friday night with a group of close friends. Henry was fond of travel, and he took his family on trips through the United States as well as to Canada, Alaska, Australia, New Zealand, and Hawaii. After his retirement he made a trip around the world with his younger daughter.

Never an extrovert and somewhat shy, Henry, nevertheless, loved teaching and interacting with young people, and he and his wife opened their home to friends, guests, colleagues, and students. After his retirement he presided over a rather unusual household of one very imperious cat (named Amy after Amelia Earhart because she fearlessly liked to sit on shoulders and high places), various comings and goings of his children, and a series of boarders and later, caregivers and companions who became part of his extended family. During this time he took walks, built intricate paper models, arranged photograph albums, read science fiction and mysteries, planted flowers, tended his garden, and enjoyed good food and trips to the California coast. He is survived by his children - Henry M. Leicester, Jr. (b. 1942), Professor of Literature at the University of California, Santa Cruz; Martha (b. 1950), a superintendent with the National Park Service; and Margaret ("Guida") (b. 1957), a communications consultant, who cared for her father during his final years. His legacy endures in the hearts and minds of his students, colleagues, friends, and family and in his books and articles that have enriched the science of chemistry and its history.

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SOME EDGAR FAHS SMITH MEMORABILIA

William D. Williams, Harding University

Edgar Fahs Smith is recognized as the Dean of American chemical historians. His papers and books have inspired many of us to study early chemistry. His influence in establishing the Division of the History of Chemistry of the American Chemical Society has promoted research in that field and his wonderful collection of early chemical books, portraits and memorabilia, still housed at the University of Pennsylvania, has preserved for all of us a tangible and irreplaceable link with our professional past.

I certainly cut my history-of-chemistry teeth on Smith's works and have tried to emulate his writing and collecting. In this process, I became a close friend of Wyndham Miles, another chemical historian and "old chemistry" collector. Dr. Miles has spent 40 years supplementing Smith's work on early American chemistry. Over the years he has accumulated a large rare chemistry collection, including some interesting Smith memorabilia. As a regular visitor to the Smith Collection, Miles became well known to Eva Armstrong and Robert Sutton, who were its curators. In the 1950s, when the Smith