

15/5/23
Liberal Arts and Sciences
Chemistry
Roger Adams Papers, 1812-1971

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Roger Adams (1889-1971), organic chemist and Head of the Department of Chemistry and Chemical Engineering (1926-54), was a native of Massachusetts and was educated at the Cambridge Latin School, Harvard University (AB 1909, AM 1910, and Ph.D. 1912), the University of Berlin (1912-13) and the Kaiser Wilhelm Institute (1913).

After teaching organic chemistry three years at Harvard and Radcliffe he became an assistant professor of chemistry at the University of Illinois in 1916. In 1919 he advanced to full professor and seven years later was selected head of the department. Building upon the foundation laid by his predecessor, William A. Noyes, he made the department one of the strongest in the nation. His reputation within the university was also very high. He was seriously considered as a candidate for the presidency in 1929, 1933, 1944, and 1954.

His extensive research included work in the fields of organic arsenic compounds, local anesthetics, stereochemistry, the structure of natural products, and gossypol. Of particular interest is his research on Chaulmoogric acid, which is used in the treatment of leprosy, and the chemistry of marihuana. He was the author or co-author of three books and over 430 articles.

During World War I he served as a major in the Chemical Warfare Service in Washington, working as a Section Chief with James B. Conant in the development of gases for the military. A sternutator which he synthesized was named "Adamsite." During World War II he returned to Washington to serve as a member of the National Defense Research Committee. At the termination of hostilities he became the Scientific Advisor to the Military Governor of Germany, General Lucius M. Clay, and served as Chairman of the Scientific Advisory Mission to the Military Government in Japan.

His students have attained important positions in the chemical industry and institutions of higher education and have made significant contributions to chemistry on their own. Among the more notable were Wallace H. Carothers, the developer of nylon, Ernest H. Volwiler, the director of research for Abbott Laboratories, and Wallace R. Brode of the National Bureau of Standards.

Adams served as a consultant for several chemical companies - E. I. Du Pont and Abbott Laboratories in particular - and was on the board of directors of such research foundations as the Battelle Memorial Institute, the Alfred Sloan Fund, the Sloan-Kettering Institute for Cancer Research, the Robert Welch Foundation, and the Otto Haas Trust Fund.

He served as an officer in many of the leading scientific organizations in the country. He was president of the American Chemical Society (1935) and the American Association for the Advancement of Science (1950) and was chairman of the Chemical Section of the National Academy of Sciences (1938-1941). He received many honorary awards and degrees, including the Priestly Medal (1946) and the Parsons Award (1958) of the American Chemical Society, the National Medal of Science (1964), and honorary membership in most of the chemical societies of Europe.

His research, consulting, and professional activities produced a sizable correspondence with foreign and domestic scientists, including Conant, Carothers, Volwiler, Glenn T. Seaborg, Warren Weaver, Alan T. Waterman, Detlev Bronk, Wallace R. Brode, Frederick Seitz, E. K.

Bolton, Vannevar Bush, George Kistiakowski, Vladimir Prelog, P. E. Verkade, Sir Robert Robinson, and Richard Willstätter.

The Adams Papers in the University of Illinois Archives also include Dr. Adams' publications, photographs, newspaper clippings, programs, and sound tapes.

Roger Adams

May 1, 1971

Born January 2, 1889, Boston, Massachusetts
 Present Address: 603 W. Michigan Avenue, Urbana, Ill.

Harvard A.B. '09; A.M. '10; Ph.D. '12

University of Berlin and Kaiser Wilhelm Institute 1912-13

Hon.	Sc.	D.	Brooklyn Polytechnic Institute	1935
"	"	"	Northwestern University	1942
"	"	"	University of Rochester	1943
"	"	"	Harvard University	1945
"	"	"	University of Pennsylvania	1947
"	"	"	Yale University	1948
"	LL	"	University of Michigan	1954
"	Sc	"	Drexel Institute of Technology	1955
"	"	"	University of Illinois	1957
"	"	"	Bridgeport University	1960

Instructor, Harvard University	1913-1916
Asst. Professor, University of Illinois	1916-1918
Professor, University of Illinois	1919-1926
Professor and Head of Department of Chemistry and Chemical Engineering, University of Ill.	1926-1954
Research Professor, University of Illinois	1954-1957
Emeritus	1957-

Wm. H. Nichols Medal, 1937 (New York Section, American Chemical Society)
 Willard Gibbs Medal, 1936 (Chicago Section, American Chemical Society)
 Elliott Cresson Medal, 1944 (Franklin Institute)
 Davy Medal, 1945 (Royal Society of London)
 T.W. Richards Medal, 1946 (Northeastern Section, American Chemical Society)
 Priestly Medal, 1946 (American Chemical Society)
 Honorary Commander of the Civil Division of the Most Excellent Order of the British Empire (C.B.E), 1948 (British Government)
 Medal for Merit, 1948 (United States Government)
 A.W. Hofmann Medal, 1953 (German Chemical Society)
 Midwest Medal, 1953 (St. Louis Section, American Chemical Society)
 Perkin Medal, 1954 (Society of Chemical Industry)
 Charles Lathrop Parsons Award, 1958 (Board of Directors of the American Chemical Society)
 Franklin Medal, 1960 (Franklin Institute)
 Gold Medal, 1964 (American Institute of Chemists)
 National Medal of Science, 1964 (United States Government)
 John R. Keubler Award, 1966 (Alpha Chi Sigma)
 Order of Lincoln for Science, 1967 (Lincoln of Academy of Illinois)

Certificate of Appreciation, Military Planning Division, Office of the Quartermaster General, 1945

Certificate of Meritorious Service, Chicago Sun, 1946

Testimonial of Appreciation, University of Illinois, 1950

Certificate of Tribute, Look Magazine, 1950

Northwestern University Centennial Award, 1951

Certificate for Meritorious Civilian Service, Department of the Army, 1954

Gold Plate Award, 1961 (Academy of Achievement)

Hon. Member, Franklin Institute of Philadelphia

Hon. Member, American Institute of Chemists

Hon. Member, Phi Lambda Upsilon

Hon. Member, Chemists Club, New York

Hon. Member, State of Illinois Academy of Sciences

Hon. Fellow, Chemical Society of London

Hon. Member, Polish Chemical Society

Hon. Fellow, Societ Chimique de France

Hon. Fellow, Swiss Chemical Society

Hon. Member, Spanish Chemical Society

Hon. Member, Chemical Society of Japan

Corresponding Member, Heidelberg (Germany) Academy of Sciences

Hon. Member, Polish Academy of Sciences

Hon. Member, Argentine Chemical Society

American Academy of Arts and Sciences (1927-)

National Academy of Science (1929-); Council 1931-37; 1959-62;

Chairman of Chemical Section, 1938-41; Foreign Secretary, 1950-54

American Philosophical Society, (1936-)

Major, Chemical Warfare Service, 1918: Synthesized a sternutator “adamsite” named after the discoverer.

Member, National Defense Research Committee, 1941-46

Scientific Advisor to the Deputy Military Governor of Germany, 1945

Chairman, Scientific Advisory Mission to Military Government in Japan, summer 1947; member of Second Scientific Advisory Mission to Japan, 1948.

National Research Council Fellowship Board, 1928-40

President Franklin D. Roosevelt’s Science Advisory Board, 1934-35

National Inventors Council, 1945-63

Board of Directors, National Science Foundation, 1954-60

American Chemical Society, Director, 1930-35, 1940-50; President 1935; Chairman, Board of Directors, 1944-50

American Association for the Advancement of Science, Executive Committee, 1941-46, 1948-52; Chairman, Chemical Section, 1927; President-Elect, 1949; President, 1950; Chairman,

Board of Directors, 1951
International Union for Pure and Applied Chemistry, Vice-President, 1951-55
Board of Trustees, Sloan-Kettering Institute for Cancer Research; Committee on Scientific Policy, (1954-66)
Board of Directors, The Chemurgic Council
Board of Natural Resources and Conservation, State of Illinois, 1941-)
Advisory Board, Robert A. Welch Foundation, Houston, Texas (1956-)
Scientific Advisory Board, International Sugar Research Foundation (1959-71)
Board of Trustees, Battelle Memorial Institute, Columbus, Ohio (1953-)
Board of Overseers, Harvard University, 1950-52
Board of Trustees, Teachers Insurance and Annuity Association, 1953-57
Board of Trustees, College Retirement Equity Fund, 1953-57
Board of Directors, Abbott Laboratories, N. Chicago, 1953-59
Board of Directors, Champaign National Bank, (1956-)

American Institute of Chemists
German Chemical Society
Harvey Society
Newcomen Society of North America
Rotary
Council on Foreign Relations, New York (1958-66)
Medal established, called Roger Adams Medal, (also \$10,000 and expenses) awarded biennially at the Organic Chemistry Symposium
Hon. Citizen, City of New Orleans
Personal Research Director for 182 Doctor of Philosophy recipients in the Department of Chemistry and Chemical Engineering at the University of Illinois

Sigma Xi; Phi Beta Kappa; Phi Kappa Phi; Phi Lambda Upsilon; Alpha Chi Sigma; Gamma Alpha; Alpha Tau Omega; Phoenix-SK

Associate Editor, Journal of American Chemical Society, 1922-32
Author (with J. R. Johnson) "Laboratory Experiments in Organic Chemistry," 1928, 1933, 1939, 1949, 1963
Editorial Board of Gilman's "Organic Chemistry, Advanced Treatise"
Editorial Board "Organic Syntheses," 1920-30, Advisory Board, 1930-)
Editor-in-Chief "Organic Reactions," 1941-59; Editorial Board, 1959-)
Scientific Articles in organic chemistry (over 400)

Tape-Recorded Interview Transcripts, Box 9

Tape-Recorded Interviews, 1964-65 and August 8, 1967

Tape I: Tape-recorded interview of Professor Roger Adams by Mrs. Jennifer Johnson of WILL, August 8, 1967

- 1-2: Introduction
- 3-17: Professor Arthur Palmer was first head of the Chemistry Department. He had wide European experience. He continued research on organic arsenic compounds.
- 18-28: Professor William A. Noyes came from the Bureau of Standards and had a background in editing and research. He found a college and worked to build a graduate training program. He watched quality of teaching and students.
- 29-49: World War I created difficulties. Staff members left for the chemical interests. By 1916, Professor Clarence Derick (organic chemistry) and Professor Washburn (chemical engineering) were left. Others left for industry. Noyes hire Richard Tolman and Roger Adams. Called away on war work. I came back.
- 50-62: Many students wanted to study chemistry. Noyes appointed William Rose to replace Lewis, who went to Michigan. Worth Rodebush and George L. Clark (analytical chemistry).
- 63-65: This group, including C.S. Marvel after I became department head in 1926, continued for many years.
- 66-76: Consistency and cooperation in chemistry under Noyes and Adams. Work with the individual graduate student. Student welfare was put ahead of research accomplishments.
- 77-83: Noyes' attitude toward graduate training characterized by careful selection of students and staff.
- 84-92: Noyes was distinguished, religious, dignified and could take kidding.
- 93-100: Noyes laid the foundation of the department.
- 101-114: Fellowships and scholarships were scarce. Two or three fellowships. One given by Robert Carr. Student financial help consisted of small fellowships through the graduate school and teaching appointments.
- 115-120: University has been generous to the Chemistry Department. Also the government agencies.

Tape II: Interview of Roger Adams by John B. Mellecker, Historian of Chemists' Club of New York City, 11/20/64, 2/12/65, 3/15/65, probably late July, 1965 and possibly October, 1965. ca. 160 minutes

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- 40: New York City as a center for chemists.
- 50: Adams' education, chemists he met in Germany before World War I teaching at Harvard and Radcliffe, acceptance of position at

- University of Illinois.
- 80: Teaching at Harvard and Radcliffe, acceptance of position at University of Illinois.
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- 100: Positions held at University of Illinois.
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- 107: Scientific Advisor to Deputy Military Governor of Germany, General Lucius D. Clay, after World War II, state of German science after the war.
- 120: Chairman of Scientific Advisory Group to General MacArthur in Japan after World War II.
- 148: Comparison of German and Japanese science after the war, changes in the practices of Japanese science since the war, potential of Japanese science.
- 190: Changes in German science education since the war.
- 205: Contacts with leading foreign chemists.
- 210: Adams' Ph.D. students.
- 220: Adams' accomplishments and awards, major contribution to chemistry - his students, his papers.
- 255: Financial support for his research programs and post-graduate assistants.
- 280: Policy on the training of graduate students.
- 285: Selection of his fields of research.
- 300: Marijuana research.
- 330: Lack of modern equipment for research in Adams' period of activity.
- 360: Adams' first visit to Chemists' Club.
- 385: Receipt of National Medal of Science, telegram from L. B. Johnson.
- 420: Medal of Merit.
- 425: Other medals received by Adams.
- 445: Honorary Commander of the Most Excellent Order of the British Empire, work with British government during World War II.
- 450: Acquaintance with Sir Robert Robinson.
- 460&485: Adams' work with National Defense Research Committee during World War II.
- 475: Beginnings of government support for research (NSF).
- 500: Important discoveries made by NDRC Chemistry Division during World War II.
- 530: Medical chemistry research of NDRC.
- 545: Liaison with British scientists, British contributions to research and development during the war.
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- 705: Adams' attitudes towards basic vs. applied research.

- 735: Industrial research vs. University research.
- 750: The high cost of research.
- 770: Problem of getting scientists to work together as teams and fit into society, contributions of individuals versus contributions of groups to new developments.
- 830: Administration of research and researchers, selection of scientists for research in groups, importance of an administrator's getting along with businessmen.
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- 980; 995: Adams' broad interests; Adams' first contacts with important leaders.
- 1010: State of chemistry in U. S. shortly before and after World War I, origins of American Chemical Society and Institute of Chemical Engineers.
- 1070: Why Adams went into organic chemistry and teaching - his education and early teaching career at Harvard and in Germany.
- 1135: Association between Adams and the chemical industry - his students and friends, E.K. Bolton and Du Pont.
- 1185: Adams' consultancies - Du Pont, Abbott Labs.

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- 12: Originality in students, role of education in developing man's potential.
- 30: Reasons for his and his students' success: hard work, good memory.
- 70: Adams' ability to identify students who will succeed.
- 85: Importance of getting along with people, role of Chemists' Club.
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- 135&275: Chemical literature - problems of its bulk.
- 165: Specialization in chemistry.
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- 195: Welch symposium on biochemistry in 1964.
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