
Finding Aid to the Daniel Israel Arnon papers, 1928-2001

Processed by Claora Styron and Lauren Lassleben

Funding for processing was provided by the University of California, Berkeley, Department of Plant and Microbial Biology.
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Finding Aid to the Daniel Israel Arnon papers, 1928-2001

Collection number: BANC MSS 99/315 c

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Collection Summary

Collection Title: Daniel Israel Arnon papers,

Date (inclusive): 1928-2001

Collection Number: BANC MSS 99/315 c

Creator: Arnon, D. I. (Daniel Israel), 1910-

Extent: Number of containers: 10 cartons, 1 box, 1 oversize folder
Linear feet: 12.9

Repository: The Bancroft Library

Berkeley, California 94720-6000

Abstract: The Daniel Israel Arnon Papers contain correspondence, manuscripts of his writings, grant files, laboratory notebooks, experimental data, drawings for slides, research notes, lectures and speeches, awards and honors, and biographical information, which document his distinguished career at U.C. Berkeley.

Physical Location: Many of the Bancroft Library collections are stored offsite and advance notice may be required for use. For current information on the location of these materials, please consult the library's online catalog.

Languages Represented: English

Access

Collection is open for research.

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Preferred Citation

[Identification of item], Daniel Israel Arnon papers, BANC MSS 99/315 c, The Bancroft Library, University of California, Berkeley.

Daniel Israel Arnon reprints have been transferred to the University Archives.

Printed materials have been transferred to the book collection of The Bancroft Library.

Photographs have been transferred to Pictorial Collections of The Bancroft Library.

Videotapes/sound recordings have been transferred to the Microforms Collection of The Bancroft Library.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog

Plant physiology--Research--California

Biochemistry--Research--California

Photosynthesis--Research--California

Nitrogen--Fixation--Research--California

Faculty papers

History of science and technology collection

Acquisition Information

The Daniel Israel Arnon Papers were given to The Bancroft Library by his family in June, 1999, with additions made in 2000 and 2001.

Funding

Funding for processing was provided by the University of California, Berkeley, Department of Plant and Microbial Biology.

Biographical Sketch

Daniel Israel Arnon was born in Warsaw, Poland, on November 14, 1910. He completed his B.S. degree in 1932, and his Ph.D. in plant physiology and biochemistry in 1936, both at the University of California, Berkeley. His doctoral dissertation examined the role of trace elements in nitrogen metabolism in plants. After military service in World War II, he set up and directed an experimental nutrient culture center on Ascension Island in the mid-Atlantic Ocean, for the United States Army Air Corps. Except for this military service and sabbatical leaves in England, Sweden, Germany, Switzerland, and Pacific Grove, California, he spent his entire career at U.C. Berkeley.

Arnon's work as a plant biochemist can be divided into two major categories and time periods. From 1936 until 1950, he was primarily involved in plant nutrition studies. He and his collaborators discovered the importance of trace elements, particularly molybdenum and vanadium, in plants and algae. This work led in turn to important developments in the study of nitrogen metabolism.

From 1951 until the end of his life, Arnon concentrated on photosynthesis. He discovered and devised the term photophosphorylation (photosynthetic phosphorylation), and was the first to demonstrate complete photosynthesis outside the living cell (*New York Times*, December 30, 1954). As Arnon's long-time colleague, Professor Bob B. Buchanan, has noted, "This discovery opened the door to a new epoch in photosynthesis and made possible the elucidation of the systems that regulate the assimilation of carbon dioxide as well as the paths of biosynthesis of major cellular products." Aided by major grants from the National Institutes of Health, the National Science Foundation, the United States Navy Office of Naval Research and the Charles F. Kettering Foundation, Arnon's work led to breakthrough discoveries, including his electron flow theory, the mechanism of nitrogen fixation and hydrogen evolution, and proof that ferredoxin is a universal part of the photosynthetic apparatus.

Arnon received many awards for his pioneering work with photosynthesis. These included membership in the National Academy of Sciences [U.S.] and the American Academy of Arts and Sciences; election as a fellow of the American Association for the Advancement of Science (1962); membership in various international learned societies; honorary

doctoral degrees from the Université de Bordeaux (1975) and the Universidad de Sevilla (1992); the Berkeley Citation (1985), the highest honor bestowed by the U.C. Berkeley campus; and the National Medal of Science (1973), the nation's highest scientific award. He also received two Guggenheim Fellowships (Cambridge University, 1947-1948, and Hopkins Marine Station, Stanford University, 1962-1963), and a Fulbright Fellowship (Max-Planck Institut für Zellphysiologie, Berlin-Dahlem, 1955-1956).

Arnon married Lucile Jane Soulé on February 24, 1940. He became a naturalized United States citizen on March 31, 1941. The couple had five children: Anne Arnon Hodge, Ruth Soulé Arnon Hanham, Ph.D., Stephen S. Arnon, M.D., Nancy Arnon Agnew and Dennis Soulé Arnon, Ph.D., all of whom survive their parents. Lucile Arnon died in 1986, and Daniel Arnon died on December 20, 1994.

For a more complete biography, see "Daniel I. Arnon, 1910-1994, A Biographical Memoir by Bob B. Buchanan," published by the National Academy of Sciences as part of their *Biographical Memoirs* series (Volume 80, 2001):

[<http://books.nap.edu/html/biomems/darnon.html>; <http://books.nap.edu/html/biomems/darnon.pdf>]. The Bancroft Library is indebted to Professor Buchanan and to Dr. Ruth Soulé Arnon Hanham for their generous assistance with this biographical sketch, and their expert help with the arrangement and description of the collection.

Scope and Content

The Daniel Israel Arnon Papers contain correspondence, manuscripts of his writings, grant files, laboratory notebooks, experimental data, drawings for slides, research notes, lectures and speeches, awards and honors, and biographical information, which document his distinguished career at U.C. Berkeley.

The collection contains an extensive run of correspondence, primarily letters received by Arnon, but also some copies of those written by him. This series forms just over half of the total collection. Arnon was obviously a frequent and diligent letter-writer. The great majority of the correspondence in Series 1 is professional in nature, although some letters and postcards to and from family members are included. Many of his long-term correspondents were younger European and Asian scientists, who held postdoctoral positions in his laboratory after World War II, and then returned to teach and do research in their respective countries. Series 1 also includes incoming and outgoing correspondence and other materials regarding personnel matters involving visiting scholars, research assistants, graduate students, colleagues and lab staff. These files are arranged alphabetically.

Although Series 2 contains fewer than 40 manuscripts of articles, they allow the researcher some insight into the meticulous way in which Arnon wrote and revised. The series contains lists of his publications, and a copy of this doctoral dissertation, entitled *Influence of Hydrogen Ion Concentration, Manganese, Copper, Oxygen Supply and Season on the Ammonium and Nitrate Nitrogen Nutrition of Barley* (U.C. Berkeley, 1936).

Series 3 begins with the Grants subseries, dating from 1948 through 1986. The grant files provide an inside look into Arnon's particular research interests, including various aspects of photosynthesis, nitrogen fixation and assimilation, and enzyme studies. The second subseries, Laboratory Notebooks, dates from the late 1940's through the early 1970's. A much more detailed look at Arnon's scientific and pedagogical career can be gleaned by examining his experimental data (beginning with Experiment Number 75). Unfortunately, this data exists for the period 1980 through 1983 only. The final subseries contains the original artwork and scientific data which were later made into actual photographic transparencies. The slides are housed in the Pictorial Collections of The Bancroft Library. They have been expertly arranged by Arnon's close colleague, Professor Bob B. Buchanan, to show the development of Arnon's scientific thinking.

The fourth series, Research Notes, provides a brief overview of the many general scientific topics which were of interest to Arnon. The topics range from organic farming to the history of research on photosynthesis.

Arnon's professional speaking activities outside the university's walls are well-documented in Series 5. His lecture notes date from the late 1930's and continue through the early 1990's.

The final series is divided into two subseries, Awards and Honors, and Biographical Information. Series 6 contains key documents for biographers, including award certificates, two *festschrifts*, Arnon's naturalization certificate, marriage license, passports, World War II military records, Bio-bibliographies, biographical statements, newsclippings, press releases and obituaries.

Series 1: **Correspondence, 1938-1994**

Physical Description: Cartons 1-5, Box 1

Ctn. 1, folder 1
Ctn. 1, folder 2
Ctn. 1, folder 3

Académie d'Agriculture de France. 1955-1972
Agnew, Nancy Soulé Arnon (daughter). 1954-1993
Akazawa, Takashi. 1974-1993

Ctn. 1, folder 4-5	Albertson, Per-Åke. 1961-1994
Ctn. 1, folder 6	Aldrich, Daniel G. 1957-1961
Ctn. 1, folder 7	American Society of Biological Chemists, Inc. 1958-1965
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Ctn. 1, folder 9	Ames, Bruce N. 1985-1991
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Ctn. 1, folder 16	Arnold, William A. 1968-1970
Ctn. 1, folder 17	Arnon, Dennis Soulé (son). 1962-1967
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Ctn. 1, folder 21	Avron, Mordhay. 1959-1991
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Ctn. 1, folder 35-38	<i>Biochimica et Biophysica Acta</i>. 1955-1989
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Ctn. 1, folder 51	Bolton, James R. 1975-1976
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Ctn. 1, folder 57	Bothe, H. 1968-1970
Ctn. 1, folder 58	Bouillenne, Raymond. 1947-1959
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Ctn. 1, folder 78	Cárdenas-Torres, Jacobo. 1986
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Ctn. 1, folder 82	Chance, Britton. 1950-1963
Ctn. 1, folder 83	Chang, Sea Bon. 1965-1970
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Ctn. 1, folder 87	<i>Chemical and Engineering News.</i> 1955-1975
Ctn. 1, folder 88-89	Chen, Pin-Ching. 1976-1987
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Ctn. 1, folder 94	Clendenning, K. A. 1950
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Ctn. 1, folder 96	Commoner, Barry. 1954
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Ctn. 2, folder 9	Edelman, Jack. 1961-1966
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Ctn. 2, folder 11	Education Programs Improvement Corp. 1974
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Ctn. 3, folder 85	<i>Photosynthesis Research</i>. 1981-1994
Ctn. 3, folder 86	<i>Physiological Reviews</i>. 1966-1967
Ctn. 3, folder 87	Pirie, N. W. 1956-1961
Ctn. 3, folder 88	Pirson, A. 1950-1958
Ctn. 3, folder 89	<i>Plant Physiology</i>. 1952-1987
Ctn. 3, folder 90	Porter, Helen Kemp. 1959-1960

Ctn. 3, folder 91	Poulos, Thomas L. 1968-1974
Ctn. 3, folder 92	Prentice-Hall, Inc. 1962-1966
Ctn. 3, folder 93	Pringsheim, E. G. 1960-1961
Ctn. 3, folder 94-96	<i>Proceedings of the National Academy of Sciences.</i> 1961-1994
Ctn. 3, folder 97	P Miscellany. 1941-1994
Ctn. 3, folder 98	<i>Quarterly Review of Biophysics.</i> 1983-1984
Ctn. 3, folder 99	Quastel, J. H. 1960-1963
Ctn. 4, folder 1	Rabinowitch, Eugene. 1951-1952
Ctn. 4, folder 2	Racker, Efraim. 1952-1984
Ctn. 4, folder 3	Ramírez de Verger, Juan and Fernández del Campo, Francisca. 1965-1988
Ctn. 4, folder 4	Reed, Lester J. 1953-1971
Ctn. 4, folder 5	Rembold, Heinz. 1966
Ctn. 4, folder 6	Robbins, W. W. 1936-1940
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Ctn. 4, folder 9	Ronald Press Company. 1960-1963
Ctn. 4, folder 10	Rosenberg, Lawson Lawrence. 1953-1985
Ctn. 4, folder 11	Rotini, O. T. 1957-1965
Ctn. 4, folder 12	R Miscellany. 1942-1994
Ctn. 4, folder 13	Samisch, Rudolf. 1951-1952
Ctn. 4, folder 14	San Pietro, Anthony Gordan. 1959-1975
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Ctn. 4, folder 20	<i>The Sciences.</i> 1981-1981
Ctn. 4, folder 21-22	<i>Scientific American.</i> 1949-1969
Ctn. 4, folder 23	Seaborg, Glenn Theodore. 1959-1979
Ctn. 4, folder 24	Semenza, Giorgio. 1978-1986
Ctn. 4, folder 25	Shanmugam, Keelnatham T. 1968-1981
Ctn. 4, folder 26	Shin, Masateru. 1962-1985
Ctn. 4, folder 27	Shropshire, Walter. 1966-1967
Ctn. 4, folder 28	Simon, Helmut. 1963-1964
Ctn. 4, folder 29	Simon, Herbert A. 1967-1978
Ctn. 4, folder 30	Singer, Thomas Peter. 1962-1974
Ctn. 4, folder 31	Sironval, C. 1952-1957
Ctn. 4, folder 32	Sixth International Congress on Photobiology. 1971-1972
Ctn. 4, folder 33	Skoog, Folke Karl. 1939-1953
Ctn. 4, folder 34	Slater, E. C. 1950-1984
Ctn. 4, folder 35	Soulé, Edward Lee, Jr. (brother-in-law). 1966-1977
Ctn. 4, folder 36	Soulé, Edward Lee, Sr. (father-in-law). 1954-1967
Ctn. 4, folder 37	Southern Regional Research Project, S112. 1976
Ctn. 4, folder 38	Springer-Verlag. 1963-1968
Ctn. 4, folder 39	Sproul, Robert Gordon. 1947-1957
Ctn. 4, folder 40	Stamer, Roger. 1960-1961
Ctn. 4, folder 41	Stern, Herbert. 1964
Ctn. 4, folder 42	Steward, F. C. 1965
Ctn. 4, folder 43	Stout, Perry Robert. 1942-1961
Ctn. 4, folder 44	Strickland, K. P. 1963-1964
Ctn. 4, folder 45	Strong, Edward W. 1946-1985
Ctn. 4, folder 46	Sun, Alexander Shih-Kaung. 1964-1973
Ctn. 4, folder 47-48	Szent-Gyorgyi, Albert. 1956-1986
Ctn. 4, folder 49	S Miscellany. 1938-1988
Ctn. 4, folder 50	Tagawa, Kunio. 1959-1986
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Ctn. 4, folder 53	Theorell, Hugo. 1946-1973
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Ctn. 4, folder 55	Ticho, Robert J. 1967-1970
Ctn. 4, folder 56	Tipton, Vernon J. 1970
Ctn. 4, folder 57	Tolbert, N. Edward. 1958-1973
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Ctn. 4, folder 59-61	Trebst, Achim Viktor. 1956-1994
Ctn. 4, folder 62	<i>Trends in Biochemical Sciences. 1984-1990</i>
Ctn. 4, folder 63	Trumpower, Bernard L. 1981
Ctn. 4, folder 64	Tsugita, Akira. 1963-1966
Ctn. 4, folder 65	T Miscellany. 1946-1978
Ctn. 4, folder 66	United States Department of Agriculture. 1947-1955
Ctn. 4, folder 67	University of California, Berkeley. Associated Students. 1954-1958
Ctn. 4, folder 68-73	University of California, Berkeley. Department of Cell Physiology. 1959-1979
Ctn. 4, folder 74	University of California, Berkeley. Department of Plant and Soil Biology. 1979-1982
Ctn. 4, folder 75	University of California, Berkeley. Department of Plant Biology. 1989-1994
Ctn. 4, folder 76	University of California, Berkeley. Division of Molecular Plant Biology. 1983-1989
Ctn. 4, folder 77	University of California, Berkeley. Division of Plant Nutrition. 1938-1956
Ctn. 4, folder 78	U Miscellany. 1940-1976
Ctn. 5, folder 1	Vänngård, Tore. 1979-1985
Ctn. 5, folder 2	van Niel, Cornelius Bernadus. 1949-1967
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Ctn. 5, folder 4	Vennesland, Birgit. 1950-1960
Ctn. 5, folder 5	Vernon, Leo P. 1961-1970
Ctn. 5, folder 6	Virtanen, A. I. 1959-1973
Ctn. 5, folder 7	Vishniac, Wolf. 1954-1960
Ctn. 5, folder 8	V Miscellany. 1952-1981
Ctn. 5, folder 9	W.A. Benjamin, Inc. 1963-1967
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Ctn. 5, folder 11	Wald, George. 1959-1985
Ctn. 5, folder 12	Walker, David A. 1967-1987
Ctn. 5, folder 13	Wallace, T. 1947-1957
Ctn. 5, folder 14	Warburg, Otto Heinrich. 1952-1983
Ctn. 5, folder 15	Wasserman, A. R. 1971-1976
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Ctn. 5, folder 17	Wei, Jeng-Shu. 1968-1970
Ctn. 5, folder 18	Wellman, Harry R. 1952-1963
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Ctn. 5, folder 22-25	Whatley, F.R. 1948-1984
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Ctn. 5, folder 32	Wu, Elizabeth Yi-Jan. 1971-1976
Ctn. 1, folder 33	W Miscellany. 1945-1984
Ctn. 5, folder 34	Yamada, Toshiro. 1957-1960
Ctn. 5, folder 35	Yasunobi, Kerry T. 1965-1973
Ctn. 5, folder 36	ZoBell, Claude Ephraim. 1950-1952
Ctn. 5, folder 37	Y-Z Miscellany. 1950-1980
Box 1, folder 1-2	Allen, Mary Belle. circa 1952-1986
Box 1, folder 3	Carlson, Donald E., Jr. 1965-1978

Box 1, folder 4	Chain, Richard Keith. 1963-1978
Box 1, folder 5	Hiyama, Tetsuo. 1973-1979
Box 1, folder 6	Knaff, D.B. 1965-1976
Box 1, folder 7	Malkin, Richard. 1969-1990
Box 1, folder 8-9	McSwain, Berah Davis. 1962-1978
Box 1, folder 10	Melis, Anastasias. 1985-1986
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Box 1, folder 12	Tsujimoto, Harry Y. 1952-1986
Box 1, folder 13	Yoch, Duane C. 1967-1988

Series 2: **Writings, 1936-1991**

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Ctn. 5, folder 38-43	Bibliographies of Arnon's publications. 1970-1990
Ctn. 5, folder 44	Doctoral dissertation, <i>Influence of Hydrogen Ion Concentration, Manganese, Copper, Oxygen Supply and Season on the Ammonium and Nitrate Nitrogen Nutrition of Barley</i> . 1936
Ctn. 5, folder 45	Vanadium as an Essential Element for Green Plants. 1953
Ctn. 5, folder 46	Photosynthesis Research in the Department of Soils and Plant Nutrition. 1958
Ctn. 5, folder 47	Enzyme Complexes of the Photosynthetic Apparatus. 1958
Ctn. 5, folder 48	Conversion of Light into Chemical Energy in Photosynthesis. 1959
Ctn. 5, folder 49	A Resume of our Current View on Photosynthesis. 1960
Ctn. 5, folder 50	The Equivalence of Light and Adenosine Triphosphate in Bacterial Photosynthesis. 1960
Ctn. 5, folder 51	Ferredoxin Implicated in Carbon Dioxide Fixation by a Photosynthetic Bacterium. 1963
Ctn. 5, folder 52	Preparation of Spinach Ferredoxin. 1964
Ctn. 5, folder 53	Quenching of Chloroplast Fluorescence by Photosynthetic Phosphorylation and Electron Transport. 1965
Ctn. 5, folder 54	Apparatus and Methods. 1966
Ctn. 5, folder 55	Comments by D. I. Arnon in <i>Biochemistry</i> of Chloroplasts. 1967
Ctn. 5, folder 56	The Site of Action of Plastocyanin in Chloroplasts Treated with Detergent. 1968
Ctn. 5, folder 57	The Stoichiometry of Noncyclic Photophosphorylation with Plastocyanin as an Added Electron Acceptor. 1968
Ctn. 5, folder 58	Dependence of Photosynthetic Electron Transport by Chloroplast Cytochromes on Plastocyanin. 1970
Ctn. 5, folder 59	Photosynthesis. 1970-1976
Ctn. 5, folder 60	Retreat from Knowledge: The Myth of Organically Grown Food. 1974-1976
Ctn. 5, folder 61	Draft of Testimony [on organically grown and natural foods]. 1976
Ctn. 5, folder 62	Photoinduced Electron Transport from Water to NADP⁺ by PSII in Inside-out Thylakoid Vesicles. ca. 1981
Ctn. 5, folder 63	Sunlight, Earth Life: The Grand Design of Photosynthesis. 1982
Ctn. 5, folder 64	Effect of Plastocyanin and NADP⁺ on the Redox State of cyt <i>b</i>_{559HP} in Inside Out Chloroplast Vesicles. ca. 1983-1984
Ctn. 5, folder 65	Divergent Pathways of Photosynthetic Electron Transfer: The Autonomous Oxygenic and Anoxygenic Photosystems. 1990
Ctn. 5, folder 66	Photosynthetic Electron Transport: Emergence of a Concept, 1949-60. 1991
Ctn. 5, folder 67	History of Plant Nutrition. n.d.
Ctn. 5, folder 68	On Popularization of Science. n.d.
Ctn. 5, folder 69	Some Functional Aspects of Inorganic Micronutrients in Plant Metabolism. n.d.
Ctn. 5, folder 70	On the Role of Micronutrients in Photosynthesis and Nitrogen Metabolism. n.d.
Ctn. 5, folder 71	Photosynthetic Reactions Outside the Plant. n.d.
Ctn. 5, folder 72	The Physiological Basis for the Use of Chemical Fertilizers in Agriculture. n.d.
Ctn. 5, folder 73	Proposed Outline for a Chapter on Photosynthesis. n.d.
Ctn. 5, folder 74	Biology Briefs. n.d.
Ctn. 5, folder 75	Need for Additional Research Work in Photosynthesis in Relation to Mineral Nutrition of Green Plants. n.d.
Ctn. 5, folder 76	The Role of Ferredoxin in Photosynthesis. n.d.

Ctn. 5, folder 77	Role of Ferredoxin in Energy Transfer and Storage During Photosynthesis. n.d.
Ctn. 5, folder 78	Oxidation-Reduction Potentials and Stoichiometry of Electron Transfer in Ferredoxins. n.d.
Ctn. 5, folder 79	Plastocyanin in Photosynthetic Electron Transport Reactions by Isolated Chloroplasts. n.d.
Ctn. 5, folder 80	Unidentified fragments. n.d.

Series 3: **Experimental Work, 1948-1986**

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Grants, 1948-1986.

Ctn. 5, folder 81	Cooperative State Research Service Grant, "Photosynthesis". 1954-1978
Ctn. 5, folder 82	Cooperative State Research Service Grant, "Biological Nitrogen Fixation". 1973-1978
Ctn. 5, folder 83	National Institutes of Health Grant, "Enzyme Systems in Chloroplasts with Special Reference to Photosynthesis". 1948-1954
Ctn. 5, folder 84-87	National Institutes of Health Grant, "Photosynthesis by Isolated Chloroplasts". 1954-1972
Ctn. 6, folder 1-3	National Science Foundation Grant, "Nitrogen Assimilation and Photosynthesis". 1959-1969
Ctn. 6, folder 4	National Science Foundation Grant, "Nitrogen Fixation and Assimilation with Special Reference to Photosynthesis". 1970
Ctn. 6, folder 5-7	National Science Foundation Grant, "Bioenergetic and Synthetic Mechanisms in Photosynthesis". 1970-1976
Ctn. 6, folder 8-9	National Science Foundation Grant, "Photosynthetic Electron Transport and Photophosphorylation Reactions in Chloroplasts and Prokaryotic Membrane Fragments". 1976-1982
Ctn. 6, folder 10	National Science Foundation Grant, "Electron Transport and Phosphorylation in Energy-Transducing Membranes. 1979-1982
Ctn. 6, folder 11-12	National Science Foundation Grant, "New Pathways of Photosynthetic Electron and Proton Transport". 1982-1986
Ctn. 6, folder 13-15	Office of Naval Research Grant, "Enzyme Systems in Photosynthesis". 1959-1971
Ctn. 6, folder 16-17	State of California, Department of Public Health Grant, "Studies of the Physiology and Ecology of Blue-Green Algae in Relation to Their Toxic Effect on Rice Field Mosquitoes". 1953-1962

Laboratory Notebooks, 1948-1972.

Ctn. 6, folder 18-31	Numbers 1-35. 1948-1972
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Experimental Data, 1980-1983.

Ctn. 7, folder 1-12	Index to experiments (incomplete). 1980-1983
Ctn. 7, folder 13-202	Experiment numbers 75-849. 1980-1983
Ctn. 8, folder 1-80	Experiment numbers 850-1080. 1982-1983

Active and Inactive Slides, n.d.

Ctn. 8, folder 81	Slide indices (incomplete). n.d.
Ctn. 8, folder 82-90	Original artwork for slides, 300-2029. n.d.

Ctn. 8, **Active slides, 1-799. n.d.**

folder 91-96

Ctn. 9, folder 1-9 **Active slides, 800-2308. n.d.**

Ctn. 9, **Inactive slides, 1-679. n.d.**

folder 10-12

Series 4: **Research Notes, 1948-ca. 1988**

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Ctn. 9, folder 13 **Anoxygenic photosynthesis. ca. 1980's**

Ctn. 9, folder 14 **b-559 cycle. n.d.**

Ctn. 9, folder 15 **Circuit diagram of the Cambridge [England] Bath apparatus. 1951**

Ctn. 9, folder 16 **Conceptual evolution in photosynthesis. n.d.**

Ctn. 9, folder 17 **Correlation between cytochromes and photosystem II preparations. ca. 1986-1988**

Ctn. 9, folder 18 **Culture of algae. n.d.**

Ctn. 9, **Culture solutions. 1928-1979**

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Ctn. 9, folder 21 **Displacement and retention of soluble enzymes in chloroplasts. n.d.**

Ctn. 9, folder 22 **Electron paramagnetic [spin] resonance experiments. n.d.**

Ctn. 9, folder 23 **Equipment. 1960-1961**

Ctn. 9, folder 24 **Experiments with inside-out vesicles. 1982**

Ctn. 9, folder 25 **Function of P680 in photosynthesis. n.d.**

Ctn. 9, folder 26 **Laboratory group meeting presentations. 1969-1984**

Ctn. 9, folder 27 **Laboratory procedures. 1945-1965**

Ctn. 9, folder 28 **Lists of references. n.d.**

Ctn. 9, folder 29 **Manganese requirement in oxygen evolution by algae. n.d.**

Ctn. 9, **Miscellaneous. n.d.**

folder 30-31

Ctn. 9, folder 32 **Organic farming. n.d.**

Ctn. 9, folder 33 **Perspectives on biology and medicine. n.d.**

Ctn. 9, folder 34 **Photosynthesis, historical materials. n.d.**

Ctn. 9, folder 35 **Plastoquinone function. n.d.**

Ctn. 9, folder 36 **Quantum efficiency requirements. n.d.**

Series 5: **Lectures and Speeches, 1939-1992**

Physical Description: Carton 10

Ctn. 10, **Lectures and speeches. 1939-1992**

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Series 6: **Personalalia, 1936-2000**

Physical Description: Carton 10, 1 oversize folder

Awards and Honors, 1936-2000.

Oversize folder 1B **American Academy of Arts and Sciences (2 certificates). 1962**

Ctn. 10, folder 16 **Balzan Prize in Applied Botany. 1988**

Ctn. 10, folder 17 **The Berkeley Citation, U.C. Berkeley [background papers, but no certificate; awarded in 1985]. 1978-1985**

Ctn. 10, folder 18 **California Scientist of the Year, including nominations supporting Arnon [awarded in 1971]. 1969-1971**

Ctn. 10, folder 19 **Certificate of 50-Year Membership in the American Association for the Advancement of Science. 1987**

Ctn. 10, folder 20 **Certificate of 50-Year Membership in the American Chemical Society. 1993**

Ctn. 10, folder 21 **Daniel I. Arnon Lecture Series, U.C. Berkeley. 2000-2001**

Oversize folder 1B **Doctoral diploma, U.C. Berkeley. 1936**

Ctn. 10, folder 22 **Finsen Medal, International Association of Photobiology [awarded in 1988]. 1987-1988**

Ctn. 10, folder 23 **Fulbright Research Grant [awarded for 1955-1956]. 1954-1956**

Ctn. 10, folder 24-25	Guggenheim Fellowships [awarded for 1947-1948 and 1962-1963]. 1942-1962
Oversize folder 1B	Honorary doctorate, Université de Bordeaux II [facsimile]. 1975
Ctn. 10, folder 26	Honorary doctorate, Universidad de Sevilla [awarded in 1992; background papers, but no certificate]. 1992-1993
Oversize folder 1B	Kungl. Svenska vetenskapsakademien [certificate]. 1969
Oversize folder 1B	National Academy of Sciences of the United States of America [facsimile of award certificate]. 1961
Ctn. 10, folder 27	National Medal of Science [awarded in 1973]. 1969-1974
Oversize folder 1B	National Medal of Science [facsimile of award certificate]. 1973
Oversize folder 1B	La Sociedad Española de Bioquímica [certificate]. 1975
Ctn. 10, folder 28	Special issue, Photosynthesis Research, dedicated to Daniel I. Arnon [<i>estschrift</i> for his 85th birthday]. 1995
Ctn. 10, folder 29	Special issue, <i>Physiologie Végétale</i>, dedicated to Daniel I. Arnon [<i>estschrift</i> for his 75th birthday]. 1985-1986
Ctn. 10, folder 30	Stephen Hales Award, American Society of Plant Physiologists. 1966
Oversize folder 1B	Università di Pisa, certificate [facsimile] conferring membership in the Honorary Society of the Order of the Cherubim. 1958

Biographical Information, 1941-2000.

Ctn. 10, folder 31-32	Bio-bibliographies. 1945-1985
Ctn. 10, folder 33-35	Biographical statements. 1955-1993
Ctn. 10, folder 36	Certificate of membership, U.S. Citizens Defense Corps. 1943
Ctn. 10, folder 37	Certificate of naturalization [as a United States citizen]. 1941
Ctn. 10, folder 38	"Daniel I. Arnon, 1910-1994, A Biographical Memoir by Bob B. Buchanan". 2001
Ctn. 10, folder 39	Death certificate. 1994
Ctn. 10, folder 40	List of foreign graduate and postdoctoral students of Daniel I. Arnon. n.d.
Ctn. 10, folder 41	Marriage certificate. 1940
Ctn. 10, folder 42	Memorial service. 1995
Ctn. 10, folder 43-44	Military records, World War II era. 1942-1947
Ctn. 10, folder 45	Molteno Institute, Cambridge, England. 1947-1950
Ctn. 10, folder 46-48	Newsclippings. 1950's-1990's
Ctn. 10, folder 49	Obituaries. 1994-1995
Ctn. 10, folder 50	Passports. 1946-1990
Ctn. 10, folder 51-52	Personnel-related correspondence. 1958-1986
Ctn. 10, folder 53	Poems about Daniel I. Arnon, by his daughter, Ruth Soulé Arnon Hanham. 1987
Ctn. 10, folder 54-55	Press releases. 1941-1981
Ctn. 10, folder 56	Printed programs of lectures to colleagues and the general public. 1947-1992
Ctn. 10, folder 57	Recall to active status at U.C. Berkeley. 1976-1990
Ctn. 10, folder 58	Recollections about Daniel I. Arnon's scientific discoveries, by his son, Stephen S. Arnon, M.D. 2000
