



Berlin (Theodore H.) papers

This finding aid was produced using ArchivesSpace on October 25, 2015.

English

Rockefeller Archive Center

15 Dayton Avenue

Sleepy Hollow 10591

archive@rockarch.org

URL: <http://www.rockarch.org>

Table of Contents

| | |
|----------------------------------|---|
| Summary Information | 3 |
| Biographical / Historical | 3 |
| Scope and Contents | 5 |
| File Plan | 5 |
| Administrative Information | 5 |
| Related Materials | 6 |
| Controlled Access Headings | 6 |
| Collection Inventory | 7 |

Summary Information

| | |
|----------------------------------|---|
| Repository: | Rockefeller Archive Center |
| Creator: | Rockefeller University |
| Creator - ctb: | Kubie, Lawrence S. (Lawrence Schlesinger), 1896-1973 |
| Creator - aut: | Berlin, Theodore H. |
| Creator - ctb: | Goudsmit, Samuel Abraham, 1902- |
| Creator - ctb: | Fajans, Kasimir, 1887- |
| Creator - ctb: | Uhlenbeck, George Eugène, 1900-1988 |
| Creator - ctb: | Yang, Chen Ning, 1922- |
| Creator: | Brookhaven National Laboratory |
| Creator: | Johns Hopkins University |
| Title: | Theodore H. Berlin papers, Rockefeller University Faculty |
| ID: | FA008 |
| Date [inclusive]: | 1944-1962 |
| Physical Description: | 2.5 Cubic Feet 6 document cases, 1 bound volume |
| Language of the Material: | English |

Preferred Citation

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <http://www.rockarch.org/research/citations.php>

[^ Return to Table of Contents](#)

Biographical / Historical

Theodore H. Berlin (1917-1962), a theoretical physicist who came to The Rockefeller University in 1962 and died suddenly in 1962. He joined the Rockefeller University Faculty with Mark Kac and George Uhlenbeck to develop a department of theoretical physics. In the short time that Dr. Berlin was at the

University he so endeared himself to his colleagues that a Memorial Garden on campus was developed in his memory.

During World War II, while still a graduate student, Dr. Berlin worked on the development of the proximity fuse. His academic work was concerned with the electronic structure of molecules, and his thesis was on the quantization and electric interaction in diatomic molecules. Finally his work turned toward theoretical physics.

Married Patricia May Cleary, 1944 Children: Geoffrey N., Dennis A., Michael K., Alexander L.

Member of: American Physical Society (Fellow) Sigma Xi Phi Beta Kappa

Editor: Journal of Chemical Physics Physical Review Physical Review Letters

| Chronology | |
|-------------------|--|
| 1917 | Born May 8, New York City |
| 1939 | B.S. Chemical Engineering, Cooper Union Institute of Technology |
| 1940 | M.S., University of Michigan |
| 1944 | Ph.D., University of Michigan (Horace H. Rackham Fellow) |
| 1944-1946 | Research physicist, University of Michigan |
| 1946-1947 | Lecturer, Johns Hopkins University |
| 1948-1949 | Associate Professor, Northwestern University |
| 1949-1954 | Associate Professor, Johns Hopkins University |
| 1952-1953 | Guggenheim Fellow, Institute of Advanced Science |
| 1955-1961 | Professor, Johns Hopkins University |
| 1961-1962 | Professor, The Rockefeller University |
| 1962 | Appointed to Board of Editors of The Physics of Fluids, starting January 1st Died November 16 and buried in Prospect Hill Cemetery, Baltimore, Maryland |

[^ Return to Table of Contents](#)

Scope and Contents

Biographical material, correspondence, manuscripts, notes and notebooks, reprints, and photographs. Includes administrative correspondence with Brookhaven National Laboratory (1949-1962) and Johns Hopkins University (1952-1962). Correspondents include Kasimir Fajans, Sam Goudsmit, Mark Kac, S. Katsura, Lawrence Kubie, G. Uhlenbeck, and C. N. Yang.

[^ Return to Table of Contents](#)

File Plan

Former Classification: I 450 B456

[^ Return to Table of Contents](#)

Administrative Information

Publication Statement

Rockefeller Archive Center

15 Dayton Avenue

Sleepy Hollow 10591

archive@rockarch.org

URL: <http://www.rockarch.org>

Revision Description

Migrated from Re:discovery to AT by Marisa Hudspeth 4/8/2009

Conditions Governing Access

Collection is open for scholarly research.

Processing Information

Processed by Ruth Sternfeld, August 1980.

Immediate Source of Acquisition

The papers of Theodore H. Berlin were deposited with the Rockefeller University Archives on July 1980 by Mrs. Patricia Berlin.

Conditions Governing Use

RAC users must abide by all applicable provisions of United States copyright law. Reproduction/duplication of archival items is routinely provided in accordance with “fair use”. If the RAC does not hold copyright for an archival collection, or items within a collection, it is the users’ responsibility to contact the copyright holder, or make a fair effort to do so, prior to publication.

[^ Return to Table of Contents](#)

Related Materials

Related Materials

At his death a good deal of his correspondence and some notes were sent by Dr. Uhlenbeck (at the wish of Mrs. Berlin) to Kasimir Fajans to be handled with the Fajans papers in the Michigan Historical Collection, Rackham Building, Ann Arbor, Michigan. A smaller group was sent to H. A. Gersch, Georgia Institute of Technology (see Box 1, Folder 2).

[^ Return to Table of Contents](#)

Controlled Access Headings

- Rockefeller University
- Kubie, Lawrence S. (Lawrence Schlesinger), 1896-1973
- Berlin, Theodore H.
- Goudsmit, Samuel Abraham, 1902-
- Fajans, Kasimir, 1887-
- Uhlenbeck, George Eugène, 1900-1988
- Yang, Chen Ning, 1922-
- Brookhaven National Laboratory

- Johns Hopkins University

Collection Inventory

| Title/Description | Instances | |
|--|-----------|----------|
| Biographical material | box 1 | folder 1 |
| Who's Who photocopy | | |
| Photographs | | |
| Portrait | | |
| Photograph with C.N. Yang | | |
| Memorial Garden | | |
| Employment record | | |
| Pre-employment correspondence | | |
| Detlev Bronk | | |
| Copy of letter to Sam Goudsmit | | |
| Copy of letter from Mark Kac to Sam Goudsmit | | |
| Administrative correspondence | | |
| Correspondence re: arrangements after death | | |
| Obituary Rockefeller Institute Quarterly | | |
| Correspondence | | |
| Correspondence about T. Berlin papers | box 1 | folder 2 |
| Scope and Contents | | |
| Between G. Uhlenbeck, K. Fajans, M. Kac and H.A. Gersch. | | |
| A-C, 1952-1960 | box 2 | folder 3 |
| Albrecht, M.C. | | |
| American Physical Society | | |
| Anderson, Richard L. | | |
| Andriola, J. | | |
| Bauer, Norman | | |
| Beardon, Alan J. | | |
| Breit, Gregory | | |
| Burdell, E.S. | | |

Burlew, John S.

Cohen, E.G.D.

Cohen, Leslie

Cole, F.T.

Cooper Union for the Advancement of Science and Art, E.S.
Burdell President

Coulson, C.A.

Scope and Contents

1948-1949 Discussion of assumptions in the Berlin thesis.

Cryder Sales

1949-1962

box 1

folder 4

Scope and Contents

Brookhaven National Laboratory; ca. 1 in administrative
correspondence; serving as consultant.

D-F, 1950-1960

box 1

folder 5

Dieke, G.

Dresden, Max

Erpenbeck, J.J.

Falkoff, D.

Feldman

Fierz, M.

Ford, George W.

Scope and Contents

Counter examples Kahn-Uhlenbeck theory

Ford, Joseph

Scope and Contents

Discussion of work.

1952-1962

box 1

folder 6

Fajans, Kasimir

1951-1962

box 1

folder 7

Guggenheim Foundation, 1951-1962 (bulk)

Scope and Contents

Mainly while a Guggenheim Fellow

| | | |
|---|-------|----------|
| G-K, 1952-1960 | box 1 | folder 8 |
| Gelinas, R.W. | | |
| Gersch, H. | | |
| Gildart, Lee | | |
| Goddard, D.R. | | |
| Golovin, N.E. | | |
| Gordon, Lewis | | |
| Gordon Research Conference | | |
| Goudsmit, Sam | | |
| Gourary, B.S. | | |
| Greenberg, Mayo | | |
| Groot, Siep de | | |
| Gursey, Fega | | |
| Hamilton, G. | | |
| Hearon, J.Z. | | |
| Herman, R. | | |
| Holmen, R.E. | | |
| International Congress of Theoretical Physics | | |
| Ising, E. | | |
| Ingraham, R.L. | | |
| Jehle, H. | | |
| Journal of the Optical Society | | |
| Kirkwood, J.G. | | |
| 1952-1962 | box 1 | folder 9 |

Johns Hopkins University Administration

Scope and Contents

Recommendations and evaluations

Arrangement

Arranged alphabetically

| | | |
|--|-------|-----------|
| 1959-1960 | box 1 | folder 10 |
| Johns Hopkins University Biographical / Historical Acting Chairman of the Physics Department. | | |
| 1957-1958 | box 1 | folder 11 |
| Johns Hopkins University Scope and Contents Prepared replies for University President to H.C. Dudley on his re-examination of the theory of relativity | | |
| 1953 | box 2 | folder 1 |
| Joost, Res Scope and Contents 2 manuscripts with cover letters. | | |
| 1950-1960 | box 2 | folder 2 |
| Kac, Mark Scope and Contents With discussions of formulae. Includes unidentified snapshot. | | |
| 1951-1960 | box 2 | folder 3 |
| Katsura, S. Scope and Contents Includes discussions of problems; manuscript; curriculum vita; publications; 2 reprints. | | |
| 1960-1961 | box 2 | folder 4 |
| Kubie, Lawrence Scope and Contents On theories of education for creative productivity. | | |
| L-O, 1951-1960 | box 2 | folder 5 |
| Lax, Mel | | |
| Lenard, A. | | |
| Lidiard, Alan | | |
| Lipps, F.W. | | |

| | | |
|----------------------------------|-------|----------|
| Macek, Andrej | | |
| McGlinn, W.D. | | |
| McIlvaine, W.D. | | |
| Madansky, Leon | | |
| Markshak, R.E. | | |
| Scope and Contents | | |
| Includes article on Soviet trip. | | |
| Mathematical Reviews | | |
| Mathot, V. | | |
| Mayer, Joseph E. | | |
| Menzel, D.E. | | |
| Mercier, Andre | | |
| Meselson, M. | | |
| Miller, Park H. | | |
| Minkowski, J.M. | | |
| Moe, Henry Allen | | |
| Mohling, F. | | |
| Moroi, David S. | | |
| Mountain, R.D. | | |
| Muntner, J.M. | | |
| Nall, J. | | |
| Owens, Lloyd | | |
| P-R, 1951-1957 | box 2 | folder 6 |
| Painter, Sidney (Mrs.) | | |
| Park, David | | |
| Plano, Richard | | |
| Rasetti, Franco | | |
| Rittner, E.S. | | |
| Robertson, Harry S. | | |
| Rodberg, Leonard | | |
| Rosenblatt, Samuel | | |
| S1952-1960 | box 2 | folder 7 |

| | | |
|--|-------|-----------|
| Saperstein, M.R. | | |
| Scientists' Committee for Radiation Information | | |
| Shapiro, Anatole | | |
| Shipley, E. | | |
| Siegerst, Arnold | | |
| Singswald, M. | | |
| Sternberg, S. | | |
| Stein, Clara | | |
| 1955 | box 2 | folder 8 |
| Society for Industrial and Applied Mathematics | | |
| T-V, 1950-1960 | box 2 | folder 9 |
| Thomas, C. | | |
| Thomsen, John S. | | |
| Tolhoek, H. | | |
| Uhlenbeck, G. | | |
| Van Hove, L. | | |
| 1949-1950 | box 2 | folder 10 |
| United States Department of the Navy | | |
| Scope and Contents | | |
| Primarily with Elliott Montroll on grant proposal. | | |
| W1948-1958 | box 2 | folder 11 |
| Wannier, G.H. | | |
| Ward, J. | | |
| Warner, Douglas | | |
| Weiss, G. | | |
| Weng....?, Harold | | |
| Wette, F.W. de | | |
| Weland, G.W. | | |
| Witten, Louis | | |
| Woodburne, L.S. | | |
| 1950-1959 | box 2 | folder 12 |
| Yang, C.N. | | |

| | | |
|--|-------|--------------|
| 1953, 1958 | box 2 | folder 13 |
| Zernow, L. | | |
| Scope and Contents | | |
| Including dissertation | | |
| Zwansig, Robert | | |
| Reprints and tyoscripts of publications and lectures | box 2 | folder 14-15 |
| Notebooks | box 3 | |
| Scope and Contents | | |
| Various problems and theories. Looseleaf binder contains notes on literature. | | |
| Assorted Notes | box 4 | folder 1-8 |
| Scope and Contents | | |
| Groups of notes, undated, unnamed. Folder 1 has labeled notebook: Light and matter; theory of elementary particles. Folder 2 has labeled notebook: Magnetohydrodynamic waves. | | |
| Arrangement | | |
| Pages are consecutively numbered as problems and theories worked out and so arranged. | | |
| Assorted Notes | box 5 | |
| Scope and Contents | | |
| Groups of notes. | | |
| Arrangement | | |
| Pages are consecutively numbered. Notes are held together by a title of a problem or theory. | | |
| Assorted lecture notes | box 5 | folder 1 |
| Notes on the theory of graphs | box 5 | folder 2 |
| Notes on statistical mechanics | box 5 | folder 3 |
| Notes on quantum mechanics | box 5 | folder 4 |
| Notes on crystallography | box 5 | folder 5 |
| Notes on the Raleigh problem | box 6 | folder 1 |
| Notes on Feynman's Lagrangian method | box 6 | folder 2 |
| Notes on Fokker Planck equation | box 6 | folder 3 |
| Notes on statistical physics | | |

| | | |
|--|-----------|-----------|
| | box 6 | folder 4 |
| Notes on field theory | box 6 | folder 5 |
| Notes on low temperature | box 6 | folder 6 |
| Notes on Kac's "Random walk in the presence of absorbing barriers" | box 6 | folder 7 |
| Notes on green function treatment of Schrodiner equation | box 6 | folder 8 |
| Notes on the Schwinger Hamiltonian | box 6 | folder 9 |
| Notes on free particle absorbing wall | box 6 | folder 10 |
| Notes on Quantum electrodynamics Pt. I | box 6 | folder 11 |
| Notes on Quantum electrodynamics Pt. II | box 6 | folder 12 |
| Dissertation, 1944 | package 1 | |

Biographical / Historical

In fulfillment of Ph.D. requirements at the University of Michigan.