Berlin (Theodore H.) papers

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Summary Information

Repository:	Rockefeller Archive Center
Creator - aut:	Berlin, Theodore H.
Creator:	Rockefeller University
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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 diatonic 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

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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.

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Arrangement

As received.

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File Plan

Former Classification: I 450 B456

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Administrative Information

Publication Statement

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Revision Description

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

Conditions Governing Access

Access to this collection is restricted pending permission from Rockefeller University.

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.

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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).

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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 (1951-1953)		

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 tyoescripts 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.