
Finding Aid for the H. P. Robertson Papers 1922-1980

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Phone: (626) 395-2704

Fax: (626) 793-8756

Email: archives@caltech.edu

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Descriptive Summary

Title: H. P. Robertson Papers,

Date (inclusive): 1922-1980

Collection number: 10024-MS

Creator: Robertson, H. P. (Howard Percy) 1903-1961

Extent: 12.5 linear feet

Repository: California Institute of Technology. Caltech Archives
Pasadena, California 91125

Abstract: H. P. Robertson was professor of mathematical physics at Caltech in 1927-1929 and again from 1947 until his death in 1961. He made notable contributions to the fields of relativity and cosmology and held important positions in the U.S. government related to national defense and science advising. His papers include correspondence, some with the most prominent physicists and mathematicians of his day; papers relating to professional organizations, companies, and government; teaching, writing, and lecture files; technical notes and scientific reprints; and biographical material.

Physical location: Archives, California Institute of Technology.

Language of Material:

Languages represented in the collection:

EnglishGermanFrench

Access

The collection is open for research. Researchers must apply in writing for access.

Publication Rights

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Preferred Citation

[Identification of item], H. P. Robertson Papers, 10024-MS, Caltech Archives, California Institute of Technology.

Acquisition Information

The papers of H. P. Robertson were donated to the Caltech Archives by Robertson's daughter, Mariette Fay, and her husband, Professor Peter Fay. Additional materials were donated by professor of astronomy Jesse L. Greenstein. Materials were given in installments beginning in 1971 and ending in 1998.

Processing History

Processed by Caltech Archives Staff, beginning 1970s. Completed 2002.

Processing was begun on the Robertson papers in the 1970s by archivist Carol Finerman. Following the final donation in 1998, the entire collection was integrated, rearranged and described by Charlotte E. Erwin.

Biography

Howard Percy Robertson, known to colleagues and friends as Bob, was born in Hoquiam, Washington, on January 27, 1903. He was educated in Montesano, Washington schools, and later at the University of Washington, where he received his bachelor's degree in mathematics in 1922 and his master's in mathematics and physics in 1923. While at the university, Robertson came under the influence of the mathematician E. T. Bell. Impressed with his mathematical abilities, Bell encouraged Robertson to pursue graduate work at Caltech. (Bell himself was later hired to teach at Caltech by Robert A. Millikan.) Robertson completed his PhD at Caltech in mathematics and physics in 1925 under Harry Bateman, with the dissertation, "On Dynamical Space-Times Which Contain a Conformal Euclidean 3-Space."

Upon graduation from Caltech, Robertson was awarded a National Research Council Fellowship for study at the Universities of Göttingen, Munich and Princeton, where he came into contact with a number of outstanding mathematicians and physicists. He went on to serve as professor at Princeton from 1929 to 1947, where he also worked with Albert Einstein and his collaborators at the Institute for Advanced Study.

By 1939 Robertson had become involved in national defense work on the urging of his Caltech colleague Richard C. Tolman. He was to stay connected with these activities for the rest of his life. During World War II he served in numerous advisory capacities to various military units, including the London mission of the Office of Scientific Research and Development. He was also liaison officer to several intelligence-gathering units on enemy (German) secret weapons. For his

war work he received the Medal for Merit in 1946.

In 1947 Robertson accepted a professorial position in mathematical physics at Caltech, which he held until his death. He continued to be active in governmental affairs; the list of his affiliations is long. During his later years he was scientific advisor to SHAPE (Supreme Headquarters Allied Power Europe, 1954-1956), chairman of the Defense Science Board under the Department of Defense (1957-1961) and a member of the President's Science Advisory Committee (PSAC, 1957-1961). In 1958 he was elected foreign secretary of the National Academy of Sciences, but his term of office was cut short by his untimely death.

Robertson's scientific work centered on relativity. Jesse Greenstein writes, "Robertson's scientific contributions were largely derived from his interest and ability in differential geometry and group theory, which he applied to atomic physics, quantum physics, general relativity, and cosmology" [National Academy of Sciences, Biographical Memoirs 51:346]. For a thorough discussion of Robertson's scientific work, the reader is referred to Greenstein's Memoir. A more condensed but informative article on Robertson by Joseph D. Zund appears in *American National Biography*, vol. 18 (Oxford, 1999).

In 1923 Robertson married Angela Turinsky; the couple had two children. Robertson died unexpectedly in Pasadena on August 26, 1961, of a pulmonary embolism following an automobile accident.

Scope and Content

The H. P. Robertson papers were donated to the Caltech Archives by Robertson's daughter and son-in-law, Mariette and Peter Fay, beginning in 1971. The collection is housed in 28 document boxes, with one additional card file box, and is arranged in ten series. Processing of the collection was begun in the 1970s following the original donation, but additional gifts from the Fays and from Professor Jesse Greenstein continued through 1998. It was then decided that the collection should be reprocessed, and all supplements should be integrated. This revision was completed in July 2002.

Early layers of processing have in some cases been preserved, notably in Series 1, the correspondence, where most original folders still remain. Further, in Series 8, Technical Notes, many old folder titles have been retained. It is assumed that these folder titles were carried over from original folders, now no longer in existence. In many cases the titles reflect the folder contents accurately, but in some cases the titles may be questionable, and it will be the researcher's call to decide if the notes and calculations are correctly identified.

There is also some uncertainty about the labeling of materials in Series 6, Teaching and Lectures. Lecture notes were filed together in folders, but the majority of course lectures are undated. There is enough internal evidence to show that Robertson continued to use Princeton exam books (of the "blue book" type, only not bound in blue) long after he came to Caltech. The degree to which he worked over and refined his course lectures can be inferred from physical evidence, but again, researchers may wish to look more carefully at the material to determine the sequence of his ideas and their formulations and reformulations as lecture material.

Robertson's involvement in science advising was deep and time-consuming and left him less and less time for research. His publications tapered off after 1939, as the small number of his reprints indicates. However, he continued to read widely on scientific subjects and to correspond actively with colleagues in his field. These include such notables as the mathematicians John Von Neumann, Hermann Weyl, Oswald Veblen, and Luther Eisenhart. Robertson also had contact with Albert Einstein at Princeton and with his collaborators Banesh Hoffmann and Leopold Infeld. A stormy but entertaining record of Robertson's relationship with his sometime mentor and fellow reveler, E. T. Bell, is to be found in the lengthy correspondence between the two.

The collection is organized into the following series:

- Series 1. Correspondence
- Series 2. Caltech and Other Educational Institutions
- Series 3. Professional Organizations
- Series 4. Companies and Industry
- Series 5. Government
- Series 6. Teaching and Lectures
- Series 7. Writings and Reprints
- Series 8. Technical Notes
- Series 9. Reprints of Others
- Series 10. Biographical

Indexing Terms

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

Subjects

California Institute of Technology
Princeton University
Cosmology
Mathematical physics
National security
Physics
Relativity (Physics)

Occupations

Mathematicians
Physicists

Series 1. **Correspondence**

Subseries 1. **Personal correspondence**

Box 1, Folder 1	Abel, W. H. 1927, 1945-47
Box 1, Folder 2	Abrams, Leonard 1952
Box 1, Folder 3	Agosta, William 1960
Box 1, Folder 4	Alter, Dinsmore 1933-37
Box 1, Folder 5	Archambault, Bennett 1957, 1959
Box 1, Folder 6	Athenaeum (London) (See also: Blount, B. K.) 1944, 1958-59, 1961
Box 1, Folder 7	A Miscellaneous Scope and Content Note Abell, George 1957 Abonyi, I. L. 1958 Abramenko, B. 1948-1949 Anderson, Dillon 1960 Anderson, Paul A. 1938 Arps, Leslie 1959
Box 1, Folder 8	Babson Institute 1951, undated
Box 1, Folder 9	Bacher, Robert 1954-57
Box 1, Folder 10	Bateman, Harry (See also: Series 2, Physics Division) 1925-26
	Bauersfeld, W. See: Hammerschmidt, W.
Box 1, Folder 11	Baum, William A. 1956
Box 1, Folder 12	Bell, E. T., and Toby (Mrs. E. T. Bell) and Taine (son) 1922-35
Box 1, Folder 13	Bell, E. T., and Toby (Mrs. E. T. Bell) and Taine (son) 1936-37
Box 1, Folder 14	Bell, E. T., and Toby (Mrs. E. T. Bell) and Taine (son) 1938-39
Box 1, Folder 15	Bell, E. T., and Toby (Mrs. E. T. Bell) and Taine (son) 1940-52
Box 1, Folder 16	Beth, Richard A. 1952-53
Box 1, Folder 17	Bissell, Louis 1934-35
Box 1, Folder 18	Blount, B. K. 1951-54
Box 1, Folder 19	Bohnenblust, H. F. 1955
Box 1, Folder 20	Bok, Bart 1940, 1958
Box 1, Folder 21	Born, Max 1926
	Bowen, Ira See: B misc, Bush, Vannevar
Box 1, Folder 22	Bowles, Edward 1946-48
Box 1, Folder 23	Bryson, Lyman 1957
Box 1, Folder 24	Butler, J. Lowell 1954
Box 1, Folder 25	Byles, Elvin 1954

Box 1, Folder 26

Ba-Bh Miscellaneous

Scope and Content Note

Babcock, C. Stanton 1961
Bagby, C. K. 1949
Baier, F. A. 1939
Barnothy, J. M. 1951
Barradas, G. 1960
Bartlett, James H., Jr. 1937
Bartz, R. V. 1954
Basewic, A. 1949
Bauer, G. Philip (Mrs.) 1956
Beers, Muriel Craig 1951
Besser, Marianne 1959
Beth, Eric W. 1954
Bhatnagar, S. S. 1953, 1957

Box 1, Folder 27

Bo-Bu Miscellaneous

Scope and Content Note

Bonetti, Paolo 1936
Bradbury, Ted Clay 1960
Bragg, W. S. [concerning 1958 Solvay Conference] 1957
Brahmachary, Ratan Lal 1951
Brattain, R. Robert 1954
Breitner, Thomas Clare 1952
Brenner, Joel L. 1957
Bricker, George B. 1956
Bronowski, J. 1951
Brooks, Carl N. 1952
Brooks, Dorothy L. 1958
Brown, A. A. 1953
Bruce, Charles E. R. 1956
Builder, Geoffrey 1958
Bullard, E. C. 1952
Bullitt, William Marshall 1953
Burden, William 1959
Bures, C. E. 1958
Burke, Arleigh 1960
Bush, Vannevar 1961

Box 1, Folder 28

Camp, Glen 1953-59

Box 1, Folder 29

Chadwell, H. Marshall 1957-58

Box 1, Folder 30

Chandrasekhar, Subrahmanyam 1948-50

Box 1, Folder 31

Chou, P. Y. 1935-38, 1947

Box 2, Folder 1

Clark, Gordon 1939-41

Box 2, Folder 2

Compton, Arthur 1951

Box 2, Folder 3

Condon, Edward 1936, 1948, 1954

Box 2, Folder 4

Cosmos Club 1952-61

Box 2, Folder 5

Courant, Richard 1926

Box 2, Folder 6

Ca-Ce Miscellaneous

Scope and Content Note

Calkins, John W. 1955-1956
Calsoyas, C. D. 1959
Cameron, J. B. 1955
Cameron, Robert C. 1957
Campbell, David A., Jr. 1958
Canine, Ralph J. 1956
Carroll, Val 1961
Cashman, Paul R. 1946
Caswell, Albert E. 1948
Cernuschi, Felix 1940

Box 2, Folder 7

CI-Cu Miscellaneous

Scope and Content Note

Cleaver, George 1925
Coates, Robert P. 1959-1960
Coldren, Lee 1959
Collins, Chapin 1954
Colmen, Kenneth 1958
Coolidge, A. S. 1937
Coombs, Walter P. 1956
Corbière, Henri 1947
Corry, Andrew V. 1953
Corson, Edward M. 1950
Cox, John P. 1957
Curtis, Heber D. 1938-1939
Curtiss, J. H. 1949

Box 2, Folder 8

Darrow, Karl 1950-56

Box 2, Folder 9

Dewey, Jane 1936, 1940, undated

Dietz, David See: Subseries 2, Scripps-Howard Newspapers

Box 2, Folder 10

Dombras, Theodore 1954

Box 2, Folder 11

Doolittle, James 1958

Box 2, Folder 12

Draper, Glen H. 1935, 1949, 1952

Box 2, Folder 13

DuBridge, Lee A. 1957

Box 2, Folder 14

DuMond, Jesse 1956-59

Box 2, Folder 15

D Miscellaneous

Scope and Content Note

Daniel, Jae 1959
Daugherty, R. L. 1958
Dehler, Charles E. 1958-1959
De Marco, Frederico 1944
Deutsch, I. I. 1960
Dietz, David 1953
Dingle, Herbert 1937
Dix, Howard 1946
Doors, Howard W. 1937, 1947, 1949
Dorrok, Joe Lee 1937
Downs, George W. undated
Dreyfuss, Henry 1958
Ducasse, C. J. 1934
Duncan, James T. 1959
Dyer, James A. 1960

Box 2, Folder 16

Ehrman, Joachim 1950

Box 2, Folder 17

Einstein, Albert 1938-43, 1960

Box 2, Folder 18	Eisenhart, Luther 1953-61
Box 2, Folder 19	Ellis, Emory 1957-60
Box 2, Folder 20	Epstein, Paul 1928, 1947-51
Box 2, Folder 21	Evans, Luther 1953
Box 2, Folder 22	E Miscellaneous
	Scope and Content Note
	Eddington, Arthur 1953
	Edelman, George 1952
	Elsasser, Albert 1954
	Elsasser, Walter 1946
	Emrich, Raymond J. 1961
	English, Horace B. 1958
	Engstrom, Howard T. 1959
	Estabrook, Frank B. 1961
Box 2, Folder 23	Fierz, M. 1958
Box 2, Folder 24	Flexner, Abraham 1930-1937, 1939
Box 2, Folder 25	Fowler, William A. 1937-38
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Box 2, Folder 27	Fry, T. C. 1941
Box 2, Folder 28	F Miscellaneous
	Scope and Content Note
	Fadeley, C. F. M. 1936
	Fiske, Milton 1954
	Flanigan, Al 1929
	Fleet, Reuben H. 1956
	Fong, S. T. 1960
	Foster, Alfred 1928, 1933
	Foulks, William Stanton, Jr. 1958
	France, W. H. 1929
	Fung, Yun-Tong 1955, undated
	Furnas, C. C. 1956
Box 2, Folder 29	Galli-Shohat, N. (See also: Subseries 2, Journal of the Optical Society of America) 1932
Box 2, Folder 30	Galliher, Herbert 1959
Box 2, Folder 31	Gamov, George (See also: Subseries 2, Encyclopedia Britannica) 1938-58
Box 2, Folder 32	Garabedian, Henry L. 1958-59
Box 2, Folder 33	Gibb, Frederick 1956-57
Box 2, Folder 34	Golden, William (See also: Series 10, Biographical Memoir) 1951-58
Box 2, Folder 35	Goudsmit, Samuel 1946-53
Box 2, Folder 36	Gray, George W. 1934-37, 1958-59
Box 2, Folder 37	Greene, Arthur M. 1948
Box 2, Folder 38	Greenstein, Jesse (See also: Series 10, Biographical Memoir, Robertson Memorial Lecture and Fund) 1956, undated
Box 2, Folder 39	Gücer, Dogan 1956

Box 2, Folder 40

G Miscellaneous**Scope and Content Note**

Gardner, John W. 1959
 Getzoff, Herman J. 1954
 Gill, E. W. B. 1946
 Ginzburg, Benjamin 1934
 Goldstein, Herbert 1954
 Goldstein, Sydney 1939
 Graef Fernandez, Carlos 1954-1955
 Graustein, William C. 1946
 Guggenheim, John Simon, Memorial Foundation 1954
 Guth, Eugene 1960

Box 3, Folder 1

Hammerschmidt, William 1950, 1961

Box 3, Folder 2

Harnwell, Gaylord 1938

Box 3, Folder 3

Harries, Wolfgang 1958

Box 3, Folder 4

Hauenstein, Ralph 1957-58

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Heckmann, Otto 1933, 1950, 1961

Box 3, Folder 6

Heisenberg, Werner 1948

Box 3, Folder 7

Henderson, Archibald 1936-39, 1942

Box 3, Folder 8

Herring, Conyers See: Alter, Dinsmore

Box 3, Folder 9

Hiestand, Edgar 1954-57

Box 3, Folder 10

Hoffman, Banesh 1932-35, 1948, 1954

Box 3, Folder 11

Hubble, Edwin P. 1936-53, undated

Box 3, Folder 12

Humason, Milton (See also: Sandage, A.) 1954-55

Box 3, Folder 13

Huntington Library 1940, 1950

Box 3, Folder 14

Hutchinson, Austin 1948**H Miscellaneous****Scope and Content Note**

Haddow, Alexander 1960
 Randall H. Hagner and Company, Inc. 1951-1952
 Hahne, G. 1960
 Hall, Edwin H. 1934
 Hall, Marshall 1938
 Hall, Richard H. 1957
 [Halle?], Gene 5 Nov [no year]
 Hamilton, Donald R. 1936
 Hamrich, Forrest G. 1957
 Hansen, Robert J. 1953
 Hartman, Lawton Mervale, Jr. (Mrs.) 1939
 Havas, Peter 1958
 Hayward, Roger 1956
 Heikes, George C. 1959
 Herman, Robert 1948-1949
 Hermann 1958
 Herzfeld, Karl F. 1931
 Heyl, Paul R. 1939
 Hoffman, Oscar A. 1957
 Holmes, W. J. 1954
 Holyoke Bookshop 1937
 Horner, Richard E. 1960
 Horton, Philip 1961

Box 3, Folder 15

Infeld, Leopold 1939-49, undated

Box 3, Folder 16

International Education Board 1926

Box 3, Folder 17	<p>I Miscellaneous</p> <p>Scope and Content Note</p> <p>India, Parliament Library of 1959 Ise, John, Jr. 1957, undated</p>	
Box 3, Folder 18	<p>Jellinek, Karl 1945</p> <p>Johnson, Josef 1953-54</p> <p>Jones, Burton 1957</p> <p>Jones, Reginald V. 1948-61</p> <p>J Miscellaneous</p> <p>Scope and Content Note</p> <p>Jones, Silas G. 1958 Jones, Thomas V. 1959 Joseph, Valentine 1958</p>	
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Box 3, Folder 23	<p>Kaplan, Joe 1957</p> <p>Kármán, Theodore von 1938-49, 1959, undated</p> <p>Kassler, Ken 1943</p> <p>Kempton, John 1958</p> <p>Kirkwood, Robert 1949-59</p> <p>Kline, James R. 1934-37, 1946-49</p> <p>Knapp, Robert T. 1947</p> <p>K Miscellaneous</p> <p>Scope and Content Note</p> <p>KABC Radio 1957 Karsky, Michel 1958 Kasner, Edward 1926 Katz, Leon 1959 Keith, James C. 1960 Kent, Robert H. 1940 Kermack, W. O. and W. H. McCrea 1933 Keswani, G. H. (See also: N misc, Noonan, T. W.)1960 Keuffel & Esser Company 1940 Kistiakowsky, George B. 1959 Kiszkowski, P. 1957 Knebelman, Morris S. 1961 Knepper, Kay undated Konratieva, Marina 1959 Kothari, D. S. 1953 Kouyoumjian, Dr. 1959 Kyropoulos, Spyro 1959</p>	
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Box 3, Folder 31		<p>Lanczos, Cornelius (See also: Subseries 2, McGraw-Hill Book Company 1949-50, Physical Review 1931-32) 1931-40</p> <p>Larmor, Sir Joseph 1937</p> <p>Lefschetz, Sol 1935-36, 1945-50, 1960</p> <p>Lemaître, Georges (See also: Subseries 2, Science 1951-52) 1933, undated</p> <p>Levi-Civita, Tullio 1937-38</p> <p>Levinson, Horace C. 1950-52</p> <p>Lieber, Hugh G. and Lillian R. 1934-38</p> <p>Liebowitz, Benjamin 1938-59</p> <p>Lindsay, Robert B. (See also: Subseries 2, John Wiley and Sons) 1934-39</p> <p>Littlewood, William 1957-61</p> <p>Loeb, Leonard 1959</p> <p>Los Angeles City Board of Education 1959-60</p> <p>Loughridge, Donald 1953-58</p> <p>Lukes, George and George Lukes, Jr. 1956-61</p>
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Box 3, Folder 35		
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Box 4, Folder 12

Luyten, William J. 1934-37
Lynch, Stanley 1950
Lyttleton, Raymond 1938-60
L Miscellaneous

Scope and Content Note

Lack, Brig. General Norman 1951
[Laing?], Maggie undated
Lamar, Edward Stonestreet 1953
Larkin, Thomas B. 1959
Lauritsen, Charles C. 1947
Lazarus, E. 1934
Leipnik, Roy 1959
Leitch, Russell H. 1958
Lichnerowicz, André 1945
Lichtman, Harry 1935
Linares, Enrique, Jr. 1949
Love, H. W. 1959

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Margenau, Henry 1941, 1961
Martinson, Carl 1958
McVittie, G. C. 1937, 1951-55
Michal, Aristotle 1937-40
Michels, Walter 1949
Miles, John B. 1930
Millikan, Robert A. 1927-29
Millsaps, Knox 1959
Milne, E. A. 1933-37
Montesano *Vidette* (newspaper) See: C misc, Collins, Chapin
M Miscellaneous

Scope and Content Note

Magnus, A. 1945
Mahnken, Harry 1956, undated
Malina, Frank 1961
Mansfield, Bob 1948
Markowski, Bill 1954
Marshall, Gen. George C. 1953
Mason, W. P. 1934
Mayall, Nicholas U. 1941, 1955
Mayer, Maria Goeppert 1959
McCombie, Charles W. 1957
McCrea, W. H. (*See also*: K misc, Kermack, W. O.) 1933
McDonald, Michael 1961
Melillo, Philip 1949, undated
Menzies, A. W. C. 1936
Merrill, Paul W. 1956
Mineur, Henri 1936
Minn, Hokee 1954
Mitchell, Allan C. G. 1938
Mooney, Harold 1953
Morgan, Phillip 1960
Morgenstern, Oskar 1956
Mueller, Henning 1959
Murray, Minnie E. 1957
Myers, B. 1960

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Box 4, Folder 24

Nelson, Everett 1947-48
Nettleton, J. Gilbert 1956-58

Box 4, Folder 25	Newsom, Carroll V. 1956
Box 4, Folder 26	Nicholas, Charles P. 1948-59
Box 4, Folder 27	Nicolai, V. O. 1960
Box 4, Folder 28	Northrop, Filmer 1933-38, 1954-57
Box 4, Folder 29	N Miscellaneous Scope and Content Note Nicholson, Seth B. 1953 Nishkian, M. A. 1958 Nittel, J. 1960 Noonan, T. W. (<i>See also</i> : Sandage, A.; Zwicky, F.) 1960-1961 Norman [?], P. 1947 Norstad, Gen. Lauris 1958 Novakovich, Milan 1958 Nye, J. F. 1952
Box 4, Folder 30	O'Mara, John 1953-57
Box 4, Folder 31	Omer, Guy (<i>See also</i>: W misc, Whitford, A. E.) 1948-54
Box 4, Folder 32	Oppenheimer, J. Robert (<i>See also</i>: Series 5, Atomic Energy Commission) 1939, 1954
Box 4, Folder 33	Osborne, Ralph (<i>See also</i>: Pash, Col. Boris T.) 1948-60
Box 4, Folder 34	O Miscellaneous Scope and Content Note Osborne, F. S. 1930 Overhage, Carl 1954
Box 4, Folder 35	Page, Leigh 1936
Box 4, Folder 36	Page, Thornton 1940, 1955-56
Box 4, Folder 37	Parker, Eugene 1949-52
Box 4, Folder 38	Pash, Col. Boris T. 1958-60 Note Concerning German radium standards.
Box 4, Folder 39	Pauling, Linus 1939, 1954
Box 4, Folder 40	Pensak, Louis 1937
Box 4, Folder 41	Potter, Robert 1936-40
Box 4, Folder 42	Price, Derek 1954-56

Box 4, Folder 43

P Miscellaneous**Scope and Content Note**

Page, Chester H. 1939
 Pangburn, William D. 1961
 Pao, Yen-ching 1956
 Parker, William 1960
 Parsons, W. S. 1951
 Patterson, Jack D. 1960
 [Payne-Gaposchkin], Cecelia 1950
 Pease, Bob 1949
 Peirce, C. J. 1956
 Pellam, John R. 1954
 Pierpont, James 1933, 1937-1938
 Pike, Eugene W. 1944
 Pirani, Felix 1958
 Pittinger, A. Lincoln 1958
 Pohl, R. W. 1952
 Polovich, Edward 1935
 Prasad, Shri Ayodhya 1950
 Pryce, Maurice 1940
 Pugh, George E. 1959

Box 4, Folder 44

Quinn, Arthur 1938

Box 5, Folder 1

Rabi, I. I. (See also: S misc, Swedish Royal Academy) 1938

Box 5, Folder 2

Rapier, Pascal 1953-57

Box 5, Folder 3

Redondo, John 1957-58

Box 5, Folder 4

Rees, Minna 1950-58**Reseda High School See: Los Angeles City Board of Education****Richardson, R. G. D. See: Wiener, Norbert**

Box 5, Folder 5

Richter, Charles 1937

Box 5, Folder 6

Ridenour, Louis 1948

Box 5, Folder 7

Rojansky, Vladimir 1933-40

Box 5, Folder 8

Rubey, William 1954, undated

Box 5, Folder 9

Ruse, Harold S. 1936

Box 5, Folder 10

R Miscellaneous**Scope and Content Note**

Randers, Gunnar 1940
 Rathjens, George, Jr. 1957-1958
 Rauch, Lawrence L. 1947
 Raychaudhury, Amalkumar 1959-1960
 Raymond, Richard C. 1956-1957
 Readers Union, Ltd. 1959
 Reiser, Oliver L. 1952 [reprint], 1954
 Richardson, Edward Adams 1939
 Richardson, Robert S. 24 May [no year]
 Richardson, Russell (Mrs.) 1958
 Rindler, W. 1957
 Roberts, Maj. Gen. Frank N. 1960
 Robertson, E. W. (Mrs.) 1960
 Robinson, Berol L. 1957
 Robinson, Howard A. 1957
 Roe, Anne 1948
 Roos, B. W. 1952
 Rosbaud, Paul 1955
 Ross, Thomas 1950
 Ruddock, Albert B. 1956
 Ryle, Martin 1956

Box 5, Folder 11	Sandage, Allan 1955-61
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	Stehle, Philip (See also: Series 7, Gas discharge) 1946-49
	Stern, Otto See: Swedish Royal Academy
Box 5, Folder 24	Struve, Otto (See also: Alter, Dinsmore) 1933-36
	Sulaiman, S. M. See: Subseries 2, American Journal of Mathematics
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	Salzman, George 1953
	Sargeant, H. A. [Tony] 1953
	Schick, Kenneth L. 1957
	Schild, Alfred 1949-1950, [1958?]
	Schlegel, Richard 1960
	Schouten, H. 1939
	Schwartz, Thomas 1954
	See, T. J. J. 1938 [reprint], undated
	Seitz, Frederick 1945
	Shen, San-Chiun 1954
	Shenstone, Allen 1949, undated
	Shirley, Lt. Col. John R. 1958
	Smith, A. H. 1961
	Smith, Nicholas M., Jr. 1956
	Smoluchowski, Roman 1950
	Smyth, C. P. 1943
	Socialist Party of New Jersey 1935
	Society for the Promotion of Research (Sigma Xi) 1938
	Sofian, Maral 1949
	Solandt, O. M. 1947
	Solounias, George Ar. 1949
	Star, Frieda 1957
	Starkey, Lawrence H. 1953
	Stephenson, Kirk 1947
	Stern, Bernhard 1939
	Stone, Marshall 1946
	Sundarachar, C. K. 1945
	Swedish Royal Academy 1940
	Swenson, H. A. 1932
Box 5, Folder 27	Taub, Abe (See also: Alter, Dinsmore) 1936-46
Box 5, Folder 28	Taub, Abe 1948-53
Box 5, Folder 29	Taub, Abe 1954-61
Box 5, Folder 30	Taussky-Todd, Olga 1957
Box 6, Folder 1	Thomas, Tracy 1938-47
Box 6, Folder 2	Thompson, Louis 1937
Box 6, Folder 3	Tolman, Richard C. 1930-39, 1949

Box 6, Folder 4
Box 6, Folder 5

Townes, Charles H. 1960

T Miscellaneous

Scope and Content Note

Talbot, Barbara 1959
Tangherlini, Frank R. 1961 [includes 1961 reprint]
Temple, E. 1938
Thin, James 1961
Toll, John S. 1949
Trivers, Howard 1954, 1959

Box 6, Folder 6

U Miscellaneous

Scope and Content Note

Ulu?, Fuat 1956
Urey, Harold 1956

Box 6, Folder 7
Box 6, Folder 8
Box 6, Folder 9
Box 6, Folder 10

Veblen, Oswald 1925-26, 1936

Von Neumann, John and Mariette 1932-36, 1948, 1958, undated

Vorhees, Tracy S. 1956-61

V Miscellaneous

Scope and Content Note

Vallarta, Manuel Sandoval 1956, 1961
Vandiver, H. S. 1939
Van Stockum, W. J. undated
Van Vleck, J. H. 1934
Veltman, D. undated
Vieweg, W. V. R. 1954

Box 6, Folder 11
Box 6, Folder 12
Box 6, Folder 13
Box 6, Folder 14
Box 6, Folder 15
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Box 6, Folder 17
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Box 6, Folder 19
Box 6, Folder 20
Box 6, Folder 21
Box 6, Folder 22
Box 6, Folder 23
Box 6, Folder 24
Box 6, Folder 25

Walkowicz, T. F. 1955-56

Watters, Leon 1945, 1957-59

Ward, Morgan 1934-40

Watson, Earnest 1935, 1950, 1961

Weil, Francisco 1948, 1958

Wells, H. B. 1938, 1959

Weyl, Hermann 1928-31

Wheeler, John 1938-57

Whipple, Fred 1947-49, 1961

Wiener, Norbert and R. G. D. Richardson 1928

Wigner, Eugene 1947-49

Williams, Kenneth P. 1938

Williams, William H. 1936-39

Winger, Ralph 1929-39

Winger, Roy 1926-39, 1951

Box 6, Folder 26

W Miscellaneous

Scope and Content Note

Waite, Thomas R. 1961
Walbaum, Fr. K. 1927
Walker, Merle F. 1949
Watson, Marion 1958, undated
Watson, W. W. 1946
Webb, Edwin Y., Jr. 1949
Webb, Thomas J. 1959
Weinberg, Carleton Berenda 1937
Weiss, Paul 1959
Weisskopf, Victor F. 1954
Weld, Leroy D. 1932
Wellek, René 1938
West, Ronald 1958
White, Merit Penniman 1953
Whitford, A. E. 1949
Whyburn, Gordon T. 1936
Wilkerson, E. D. 1960
Wilks, Samuel 1961
Wilson, A. H. undated
Wilson, Norman H. 1953
Winterberg, F. 1959
Wintner, A. 1940
Wintringer, G. C. 1937-1938
Wishart, Lucy E. 1939
Witten, Louis 1957

Box 6, Folder 27

Zuckerman, Sir Solly 1947-61

Box 6, Folder 28

Zuckerman, Sir Solly, Trip file 1960

Box 6, Folder 29

Zwick, Stanley A. 1950, undated

Box 6, Folder 30

Zwicky, Fritz 1961

Box 6, Folder 31

X-Y-Z Miscellaneous

Scope and Content Note

Yano, Kentaro 1950
Zacharias, Jerrold R. 1953
Zackim, Ralph I. 1949
Zanstra, H. 1957
Zatzkis, Henry 1959
[Zemansky], Mark 1940
Zund, Joseph D. 1960

Box 6, Folder 32

Unidentified correspondents various

Subseries 2. **Publishers' correspondence**

Box 7, Folder 1

Addison-Wesley Press 1949-1959

Box 7, Folder 2

American Institute of Physics 1936-38, 1949-50, 1959-60

Box 7, Folder 3

American Journal of Mathematics 1937-40

Box 7, Folder 4

Encyclopedia Americana 1958

Box 7, Folder 5

Encyclopedia Britannica 1954-56

Box 7, Folder 6

E. P. Dutton 1928, 1939

Box 7, Folder 7

John Wiley and Sons, Inc. 1928, 1938, 1958

Box 7, Folder 8

Journal of the Optical Society of America 1936-37

Box 7, Folder 9

Life Magazine 1956-57

Box 7, Folder 10

Mathematical Reviews 1952-59

Box 7, Folder 11	McGraw-Hill Book Company Inc. (See also: Series 6, Relativity and the Foundations of Mechanics) 1948-61
Box 7, Folder 12	Physical Review/Reviews of Modern Physics 1930-36
Box 7, Folder 13	Physical Review/Reviews of Modern Physics 1937-39
Box 7, Folder 14	Physical Review/Reviews of Modern Physics 1940-57
Box 7, Folder 15	Saturday Evening Post 1959
Box 7, Folder 16	Science 1935-56
Box 7, Folder 17	Scientific American 1938-39, 1956-59
Box 7, Folder 18	Scripps-Howard Newspapers (David Dietz) 1958-59
Box 7, Folder 19	Publishers' Correspondence, Miscellaneous
	Scope and Content Note
	Abbott Laboratories (What's New) 1957
	Academic Press 1954
	American Mathematical Monthly 1949
	American Mathematical Society 1938
	American Men of Science 1954-1955
	American Scholar 1946
	Astronomical Journal 1954, 1957
	Bulletin of the American Mathematical Society 1938
	Dover Publications 1950
	Fortune 1946, 1959-1960
	Henry Schuman, Inc., Publishers 1947
	Interscience Publishers, Inc. 1953
	Journal of the Royal Astronomical Society, Canada 1939
	L. B. Fischer Publishing Corporation 1942
	Library of Living Philosophers 1947
	Mathematics Magazine 1951
	Methuen and Company Ltd. Publishers 1949
	National Academy of Sciences [concerning Einstein Biographical Memoir] 1958
	Nucleonics 1950
	Nuova Critica 1959
	Pacific Journal of Mathematics 1954
	Philosophical Library Publishers 1956
	Physikalische Blätter 1950
	Princeton University Press 1947, 1955
	Royal Astronomical Society 1954
	Scientia 1946
	Simon and Schuster 1938
	Time 1938
	Transactions of the Royal Society [Canada?] 1938
	Viking Press, Inc. 1957
	W. Kohlhammer Verlag 1953

Box 7, Folder 20 **Review manuscripts 1937-55, undated**

Note

Arranged by author and unidentified.

Series 2. **Caltech and Other Educational Institutions**

Subseries 1. **Caltech**

Box 8, Folder 1	Correspondence and documents 1927-61
Box 8, Folder 2	Physics Division: Documents 1948-61
Box 8, Folder 3	Physics Division: Bateman Project 1947
Box 8, Folder 4	Physics Division: Graduate students (See also: Series 6: Teaching and Lectures) 1956-60, undated

Subseries 1. Caltech

Box 8, Folder 5	Committees: Observatory Committee 1948-61
Box 8, Folder 6	Committees: Committee for Campus Planning 1956-57
Box 8, Folder 7	Committees: Committee for Campus Planning 1958-61
Box 8, Folder 8	Committees: Library Committee 1961
Box 8, Folder 9	Faculty Board 1954-61
Box 8, Folder 10	Jet Propulsion Laboratory 1956-61
Box 8, Folder 11	Fundraising 1956-60

Subseries 2. **Other educational institutions**

Box 9, Folder 1	Carnegie Institution of Washington: Caltech proposal 1958-60
Box 9, Folder 2	Carnegie Institution of Washington: Science and Public Affairs program 1960
Box 9, Folder 3	Carnegie Institution of Washington: Science and Government program 1961
Box 9, Folder 4	Columbia University, bicentennial talk "The Universe" 1953
Box 9, Folder 5	East Tennessee State College 1958-61
Box 9, Folder 6	Harvard College Observatory (Donald H. Menzel) 1937, 1950
Box 9, Folder 7	Princeton University: Correspondence (includes Einstein's 70 th birthday) (See also: Series 6: Teaching and Lectures) 1928-49
Box 9, Folder 8	Princeton University: Vanuxem Lectures: Correspondence 1955-57
Box 9, Folder 9	Princeton University: Vanuxem Lectures: Manuscripts and notes undated [1957]
Box 9, Folder 10	University of California: Los Alamos Laboratory 1960
Box 9, Folder 11	University of Göttingen: Himmelsmechanik, Professor Herglotz 1925-27
Box 9, Folder 12	University of Göttingen: Mathematische Methoden der Quantentheorie, Professor Hilbert 1925-27
Box 9, Folder 13	University of Göttingen: Ruhenentwicklung der Mathematischen Physik, Professor Herglotz 1925-27
Box 9, Folder 14	University of Göttingen: Miscellaneous 1946
Box 9, Folder 15	University of Rochester (Arthur S. Gale) 1928-29, 1960
Box 9, Folder 16	University of Texas (R. E. Greenwood) 1941, 1958
Box 9, Folder 17	University of Virginia 1931
Box 9, Folder 18	University of Washington 1926-28, 1955
Box 9, Folder 19	Educational Institutions, Miscellaneous

Scope and Content Note

Albert Einstein College of Medicine 1954
American Society for Technion-Israel Institute of Technology 1960-1916
Calcutta University 1961
Carnegie Institution of Washington 1960
George Washington University 1947
Indiana University (See also: Series 1, Subseries 1, Wells, H. B.) 1941
Lehigh University 1961
Massachusetts Institute of Technology 1953
Michigan State University 1961
Montana State University 1925
New School for Social Research 1940
Rice University 1960
Rutgers University 1940
State College of Washington 1957
University of Alberta 1928
University of California, Santa Barbara 1957
University of Toronto 1941, 1957

Series 3. **Professional Organizations**

Box 10, Folder 1	American Academy of Arts and Sciences 1957
Box 10, Folder 2	American Association of Physics Teachers 1948, 1961
Box 10, Folder 3	American Mathematical Society 1936
Box 10, Folder 4	American Mathematical Society: Summer Institutes 1952-54

Box 10, Folder 5	CADS Conference, New Delhi 1953
Box 10, Folder 6	Carnegie Endowment for International Peace (CEIP) 1958-61
Box 10, Folder 7	Cultural and Scientific Conference for World Peace 1948-49
Box 10, Folder 8	Federation of American Scientists See: Scientists' Committee on Loyalty and Security
Box 10, Folder 9	Institute for Defense Analysis, Evaluation Group: Project 137 Workgroup (See also: Series 5, Defense Department, Weapons Systems Evaluation Group) 1958
Box 10, Folder 10	Institute for Defense Analysis, Evaluation Group: Professional Advisory Committee 1959-61
Box 10, Folder 11	Institute for Defense Analysis, Evaluation Group: Board of Trustees 1961
Box 10, Folder 12	International Astronomical Union (IAU): Symposium 15, Santa Barbara 1960 Aug 10-12
Box 10, Folder 13	International Astronomical Union (IAU): Berkeley 1961 Aug 15-24
Box 10, Folder 14	International Council of Scientific Unions, London 1961 Sep 24-28
Box 10, Folder 15	Markle Foundation, Scholars Meeting 1957 Oct 9-12
Box 10, Folder 16	National Academy of Sciences (NAS)
Box 10, Folder 17	NAS: Autumn meeting 1933
Box 10, Folder 18	NAS: Election 1951
Box 10, Folder 19	NAS: Foreign Associates 1955-59
Box 10, Folder 20	NAS: General correspondence and miscellaneous 1956-61, undated
Box 10, Folder 21	NAS: Air Research and Development Command (ARDC) 1958
Box 10, Folder 22	NAS: Council, Executive Committee: General correspondence 1958-60
Box 11, Folder 1	NAS: Council, Executive Committee: Minutes 1958-60
Box 11, Folder 2	NAS: Council, Executive Committee: Communications 1958-61
Box 11, Folder 3	NAS: Office of International Relations: Correspondence 1958
Box 11, Folder 4	NAS: Office of International Relations: Correspondence 1959
Box 11, Folder 5	NAS: Office of International Relations: Correspondence 1960
Box 11, Folder 6	NAS: Office of International Relations: Correspondence 1961 Aug, undated
Box 11, Folder 7	NAS: Office of International Relations: Study on Africa South of the Sahara 1958-61
Box 11, Folder 8	NAS: Office of International Relations: Committee on Inter-American Scientific Cooperation 1961
Box 11, Folder 9	NAS: Physics Section 1958-61, undated
Box 11, Folder 10	NAS: Proceedings 1959-61, undated
Box 11, Folder 11	NAS: Space Science Board: Committee on International Relations: Correspondence 1960-61
Box 11, Folder 12	NAS: Space Science Board: Committee on International Relations: Minutes 1958-61
Box 12, Folder 1	NAS: Space Science Board: Memoranda 1958 Dec 1-1960 Dec 28, undated
Box 12, Folder 2	NAS: Space Science Board: General 1958-60
Box 12, Folder 3	National Research Council (NRC) See also: Series 5, Office of Scientific Research and Development, National Defense Research Committee
Box 12, Folder 4	NRC: Fellowships 1925-1928
Box 12, Folder 5	NRC: Committee on Passive Protection Against Bombing 1941
Box 12, Folder 6	NRC: Committee on Mathematics 1944
Box 12, Folder 7	NRC: Division of Mathematical and Physical Sciences 1948
Box 12, Folder 8	NRC: Division of Mathematics 1951-53
Box 12, Folder 9	NRC: Division of Mathematics 1954-61
Box 12, Folder 10	NRC: Division of Mathematics: Committee on Training and Research in Applied Mathematics 1952-54
Box 12, Folder 11	NRC: Division of Physical Sciences 1953
Box 12, Folder 12	NRC: Division of Chemistry 1958-60
Box 12, Folder 13	NRC: Committees, miscellaneous 1956
Box 12, Folder 14	Operations Research Society of American (ORSA) 1947-57
Box 12, Folder 15	Pugwash Conferences 1957-59
Box 12, Folder 16	Scientists' Committee on Loyalty and Security: The Fort Monmouth Security Investigations 1954
Box 12, Folder 17	Society for the History of Technology 1960-61
Box 12, Folder 18	Society for Visiting Scientists 1960-61
Box 12, Folder 19	Space Age Astronomy International Symposium, Caltech 1961 Aug 7-9
Box 12, Folder 20	Swedish Royal Academy, Nobel Prize (W. Pauli) 1940-48

Box 12, Folder 18
Box 12, Folder 19

Symposium on Basic Research 1959 May 14-16
Professional Organizations, Miscellaneous

Scope and Content Note

American Association for the Advancement of Science 1935
American Association of University Professors 1934
American Federation of Teachers 1938
American Philosophical Association 1937
American Physical Society 1935-1936
American-Scandinavian Foundation 1956
Crypto-Mathematics Institute 1959
Institute of the Aerospace Sciences 1961
International Astronautical Federation 1958
International Congress on Theoretical Physics 1956
International Conference on Scientific Information 1956-1957
New York Academy of Sciences 1961
Royal Astronomical Society 1961
Scientists' Committee on Loyalty Problems (**See also:** Scientists' Committee on Loyalty and Security) 1949

Series 4. **Companies and Industry**

Box 13, Folder 1
Box 13, Folder 2

Atomics International 1959-60

Northrop Corporation (See also: Series 1, Subseries 1, Nettleton, J. Gilbert) 1959-60, undated

Box 13, Folder 3

Northrop Corporation 1961

Box 13, Folder 4

RAND Corporation 1956-60

Box 13, Folder 5

System Development Corporation (SDC) 1957

Box 13, Folder 6

System Development Corporation (SDC) 1958

Box 13, Folder 7

System Development Corporation (SDC) 1959 Jan-May

Box 13, Folder 8

System Development Corporation (SDC) 1959 Jun-Dec

Box 13, Folder 9

System Development Corporation (SDC) 1960 Jan-Jun

Box 13, Folder 10

System Development Corporation (SDC) 1960 Jul-Dec

Box 13, Folder 11

System Development Corporation (SDC) 1961

Box 13, Folder 12

Companies and Industry, Miscellaneous

Scope and Content Note

Allied Artists Pictures Corporation [concerning Einstein] 1960
American Airlines (Admirals of the Flagship Fleet) 1958
Carter Oil Company 1957
General Electric Company 1956, 1959-1960
General Motors Corporation 1958
Handy Associates 1957
Hycon Manufacturing Company 1957
Lockheed Aircraft Corporation 1958
Nuclear Development Corporation of America 1961
Ramo-Wooldridge Corporation 1956
United Research Incorporated 1960
Ward Howell Associates, Inc. 1956

Series 5. **Government**

Box 14, Folder 1

Air Force, Department of the

Box 14, Folder 2

Air Force: Correspondence 1947-50, 1960

Box 14, Folder 3

Air Force: Air Research and Development Command (ARDC) (See also: Series 3, National Academy of Sciences) 1953-61

Box 14, Folder 4

Air Force: Science Advisory Board: Consulting contract 1948-50

Air Force: Science Advisory Board: Science Advisory Board: Panel for Explosives and Armament 1948-49

Box 14, Folder 5	Air Force: Science Advisory Board: Technical Intelligence Committee 1948-49
Box 14, Folder 6	Air Force: Special Report no. 14, Analysis of Reports of Unidentified Aerial Objects 1955
Box 14, Folder 7	Alsos, reunion 1960
	Army, Department of the
Box 14, Folder 8	Army: Army Mathematics Advisory Committee 1947-50
Box 14, Folder 9	Army: Army Operational Research 1952, undated
Box 14, Folder 10	Army: Army Ordnance 1957-60
Box 14, Folder 11	Atomic Energy Commission, Hearings in the Matter of J. Robert Oppenheimer ca. 1954
Box 14, Folder 12	Central Intelligence Agency (CIA) 1948-60
	Defense, Department of
Box 14, Folder 13	Defense: Advanced Research Projects Agency (ARPA) 1957-59
Box 14, Folder 14	Defense: Advising, general material 1949-58, undated
Box 14, Folder 15	Defense: Armed Forces Security Agency 1952
Box 14, Folder 16	Defense: Assistant Secretary, Research and Engineering: Quarles, Donald 1953-54
Box 14, Folder 17	Defense: Assistant Secretary, Research and Engineering: Foote, Paul D. 1958
Box 14, Folder 18	Defense Science Board 1961
Box 15, Folder 1	Defense Science Board 1956-58, undated
Box 15, Folder 2	Defense Science Board 1959-60
Box 15, Folder 3	Defense Science Board: Executive Committee 1959
Box 15, Folder 4	Defense Science Board: Executive Committee 1960 Jan-Mar
Box 15, Folder 5	Defense Science Board: Executive Committee 1960 Apr-1961 Jul
Box 15, Folder 6	Defense: Director of Defense Research and Engineering, Advisory Group on COMINT/COMSEC/ELINT 1958-60
Box 15, Folder 7	Defense: Mutual Weapons Development Program (MWDP) 1954-58
Box 15, Folder 8	Defense: MWDP: Australia trip 1958 Fall
Box 15, Folder 9	Defense: MWDP 1959-61 Apr
Box 16, Folder 1	Defense: National Security Agency: Scientific Advisory Board 1952-54
Box 16, Folder 2	Defense: National Security Agency: Scientific Advisory Board 1956
Box 16, Folder 3	Defense: National Security Agency: Scientific Advisory Board 1957-61
Box 16, Folder 4	Defense: National Security Agency: War Secrets in the Ether, Part III 1954
Box 16, Folder 5	Defense: Research and Development Board 1940, 1952-53
Box 16, Folder 6	Defense: Travel authorizations 1952-61 [1955 missing]
Box 16, Folder 7	Defense: Weapons Systems Evaluation Group (WSEG) (See also:Series 3, Institute for Defense Analysis) 1951-58
	Executive Office of the President
Box 16, Folder 8	President's Advisory Committee on Government Organization 1955-56
Box 16, Folder 9	President's Science Advisory Committee (PSAC) 1957
Box 16, Folder 10	President's Science Advisory Committee (PSAC) 1958 Jan-Jun
Box 16, Folder 11	President's Science Advisory Committee (PSAC) 1958 Jul-Dec
Box 17, Folder 1	President's Science Advisory Committee (PSAC) 1959
Box 17, Folder 2	President's Science Advisory Committee (PSAC) 1960-61
Box 17, Folder 3	PSAC: Panel on Limited Warfare 1958-59
Box 17, Folder 4	PSAC: Panel on Limited Warfare 1960
Box 17, Folder 5	Executive Office: Office of Defense Mobilization, Science Advisory Board 1956-57
Box 17, Folder 6	Executive Office: Military theory, general 1954-59
Box 17, Folder 7	Executive Office: Travel authorizations 1957-59
	National Aeronautics and Space Administration (NASA)
Box 17, Folder 8	NASA: Miscellaneous 1959-61
Box 17, Folder 9	NASA: Experimental Test of Theories of Relativity Conference, Stanford 1961 Jul 20-21
	National Science Foundation
Box 17, Folder 10	National Science Foundation 1950-54
Box 17, Folder 11	National Science Foundation 1955-61
	Navy, Department of the
Box 18, Folder 1	Navy: Correspondence 1956-61
Box 18, Folder 2	Navy: Naval Ordnance Test Station 1949-61

Box 18, Folder 3	North Atlantic Treaty Organization (NATO)
Box 18, Folder 4	NATO: Advisory Group for Aeronautical Research and Development (AGARD) 1961
Box 18, Folder 5	NATO: Science Committee: E. W. R. Steacie 1958
Box 18, Folder 6	NATO: Science Committee 1957-59, undated
	NATO: Science Committee 1960
	Office of Scientific Research and Development (OSRD)
Box 18, Folder 7	OSRD: National Defense Research Committee 1940-46
Box 18, Folder 8	OSRD: Travel documents 1941-46
Box 18, Folder 9	Personnel forms 1947-60
Box 18, Folder 10	Security clearances 1959-60
Box 18, Folder 11	State, Department of, Conference on Africa and the United States 1961 Oct 22-26
	Supreme Headquarters Allied Powers Europe (SHAPE), science advisor
Box 18, Folder 12	SHAPE 1954-55
Box 18, Folder 13	SHAPE 1956-60
Box 18, Folder 14	War Department, correspondence 1946-47

Series 6. Teaching and Lectures

	Princeton University
Box 19, Folder 1	Lectures on Relativity by H. P. Robertson, notes by A. Taub [1930s]
Box 19, Folder 2	Course descriptions, problems, notes, misc 1924, 1930, 1935, 1937, undated
	Note
	Includes Oxford University (England) Examination Papers.
Box 19, Folder 3	Physics exams 1933-47
Box 19, Folder 4	Junior General and Senior Comprehensive Exams: Math 1932-37
Box 19, Folder 5	Junior General and Senior Comprehensive Exams: Math 1939-42
	Note
	1938 missing.
Box 19, Folder 6	Junior General and Senior Comprehensive Exams: Physics 1930-1940
	Note
	Incomplete set.
Box 19, Folder 7	Graduate (PhD) exams, physics, philosophy/logic, math 1937-47
	Caltech
Box 19, Folder 8	Methods of Mathematical Physics (Physics 100abc) (1) [1947]-1949, undated
	Note
	Notebooks.
Box 19, Folder 9	Methods of Mathematical Physics (Physics 100abc) (2) [1947]-1949, undated
	Note
	Notebooks..
Box 19, Folder 10	Methods of Mathematical Physics (Physics 100abc) (3) [1947]-1949, undated
	Note
	Notebooks.
Box 20, Folder 1	Methods of Mathematical Physics (Physics 100abc): Notes, problem sets, exams 1948-49, undated
Box 20, Folder 2	The Theory of Relativity (Physics 235abc) 1949-50
Box 20, Folder 3	The Theory of Relativity (Physics 235abc) 1952-53
Box 20, Folder 4	The Theory of Relativity (Physics 235abc) 1956-57
Box 20, Folder 5	Analytical Mechanics (Physics 201abc): Problem sets, exams 1953-54, 1957-58
Box 20, Folder 6	Relativity and Cosmology (Physics 235abc [retitled]) 1959
Box 20, Folder 7	Relativity and Cosmology (Physics 235abc [retitled]) 1960-61
Box 20, Folder 8	Theoretical Mechanics (Physics 108bc): Problem sets, exams 1960

Box 20, Folder 9	Caltech Course/Lecture Notes, undated Scope and Content Note Clock Paradox undated Galilean Systems undated Geodesics undated Relativistic Thermodynamics undated Satellite Mechanics I-II undated Geometry of Thermal Field 1948 Density-Age Relations 1956 The Structure of Space-Time 1956 Oct 12, 15
Box 20, Folder 10	Caltech Course/Lecture Notes, dated Scope and Content Note Fock, Group of H-Atom 1948 Geometry of Thermal Field 1948 Density-Age Relations 1956 The Structure of Space-Time 1956
Box 20, Folder 11	Physics Research Conference Talks Scope and Content Note Relativistic Satellite Mechanics 1959 Dec 3 The Empirical Bases of the Relativity Theories 1960 Oct 6
Box 20, Folder 12	Lectures and lecture series (non-Caltech)
Box 20, Folder 13	Lecture notes, misc ca. 1930s
Box 20, Folder 14	The Harvard Summer Conferences on Astronomy, program 1940 The Present State of Relativistic Cosmology (Einstein 70 th birthday symposium) 1949 Mar 19 Note Includes undated notes.
Box 20, Folder 15	Mexico City talk undated [1950 June] Note Includes undated notes.
Box 20, Folder 16	Science in Intelligence and Operations, US Military Academy 1951 May Note Includes typescript.
Box 20, Folder 17	Relativity and the Foundations of Mechanics, UCLA Extension and Naval Ordnance Test Station (NOTS): Correspondence 1952-54
Box 20, Folder 18	Relativity and the Foundations of Mechanics, UCLA Extension and Naval Ordnance Test Station (NOTS): Typescript, undated undated [1953]
Box 20, Folder 19	Observable Relations in Relativistic Cosmology, conference 1953 Oct 22
Box 20, Folder 20	Is Space Finite? 1954 Apr 22 Note American Philosophical Society lecture.
Box 21, Folder 1	The Theoretical Aspects of the Nebular Redshift 1954 Note AAAS lecture: includes correspondence and typescript.

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- | | |
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| Box 21, Folder 2 | The Impact of Science on Military Thought, Organization and Operations 1954 Sep 17
Note
NATO Defense College: includes typescript. |
| Box 21, Folder 3 | Cosmological Theory (Jubilee of Relativity) 1954-55
Note
Includes correspondence and typescript. |
| Box 21, Folder 4 | H. P. Robertson's Lectures on The Theory of Relativity, Summer Seminar on Theoretical Physics, Cloudcroft, New Mexico 1960
Note
Notes by M. F. M. Osborne. |

Series 7. **Writings and Reprints**

Subseries 1. **Manuscripts and documents**

- | | |
|-------------------|--|
| Box 21, Folder 5 | Bemerkung über separierbare Systeme 1927 |
| Box 21, Folder 6 | On the foundations of relativistic cosmology ca. 1929 |
| Box 21, Folder 7 | The uncertainty principle 1930-34 |
| Box 21, Folder 8 | The dielectric behavior of colloidal particles 1931 |
| Box 21, Folder 9 | On the interpretation of heat in relativistic thermodynamics (with R. C. Tolman) 1932 |
| Box 21, Folder 10 | On E. A. Milne's theory of world structure 1933 |
| Box 21, Folder 11 | Relativistic cosmology 1933 |
| Box 21, Folder 12 | The dynamics of star streaming (with P. M. Stehle) 1946 |
| Box 21, Folder 13 | Edwin Powell Hubble ca. 1953
Note
Obituary. |
| Box 21, Folder 14 | The axially symmetric static gravitational field (review of) undated |
| Box 21, Folder 15 | Nebula undated |
| Box 21, Folder 16 | Views of the universe undated |
| Box 21, Folder 17 | The cosmological problem undated
Note
Author uncertain. |
| Box 21, Folder 18 | Dynamics of a Hamiltonian system undated
Note
Author uncertain. |
| Box 21, Folder 19 | A statistical study of the solar atmosphere undated
Note
Author uncertain. |
| Box 21, Folder 20 | Relativity and Cosmology (book manuscript), with T. W. Noonan |
| Box 21, Folder 21 | Front matter, figures, chaps. 1-2 1966 |
| Box 22, Folder 1 | Chaps. 3-6 1966 |
| Box 22, Folder 2 | Chaps. 7-11 1966 |
| Box 22, Folder 2 | Chaps. 12-17 1966 |
| Box 22, Folder 3 | Chaps. 18-end 1966 |

Subseries 2. **Reprints by H. P. Robertson**

Box 22, Folder 4 **Reprints 1920s**
Box 22, Folder 5 **Reprints 1930s**
Box 22, Folder 6 **Reprints 1940s**
Box 22, Folder 7 **Reprints 1950s**

Series 8. **Technical Notes**

Box 23, Folder 1 **Notes by H. Bateman [unsigned] undated**
Box 23, Folder 2 **Decolorization of a gel (proposed by G. Kistiakowsky) undated**
Box 23, Folder 3 **Einstein "Schallausbreitung" ca. 1920**
Box 23, Folder 4 **Miscellaneous computations undated [ca. 1920s]**
Box 23, Folder 5 **Mathematical notes and calculations 1926, undated**
Box 23, Folder 6 **Mathematical notes and calculations undated [ca. 1928-29]**
Box 23, Folder 7 **Mathematical notes and calculations 1929, undated**
Box 23, Folder 8 **Mathematical notes and calculations undated [ca. 1930s]**
Box 23, Folder 9 **Contact transformations undated [ca. 1930s]**
Box 23, Folder 10 **Gas discharge undated [ca. 1930s]**

Note

Possibly unpublished paper.

Box 23, Folder 11 **Geodesics undated [ca. 1930s]**
Box 23, Folder 12 **Motion of molecules in extended fields undated [ca. 1930s]**
Box 23, Folder 13 **Quantum mechanics (problems) 1928, undated [ca. 1920s-1930s]**
Box 23, Folder 14 **Quantum mechanics (problems) (1) undated [ca. 1930s-1940s]**
Box 23, Folder 15 **Quantum mechanics (problems) (2) undated [ca. 1930s-1940s]**
Box 23, Folder 16 **Quantum mechanics (general formulations) 1938, undated [ca. 1930s-1940s]**
Box 24, Folder 1 **Relativistic cosmology undated [1930s]**
Box 24, Folder 2 **Relativistic cosmology: De Sitter world undated [1930s]**
Box 24, Folder 3 **Relativistic cosmology: Geodesics in space-time undated [1930s]**
Box 24, Folder 4 **Relativistic cosmology: Riemann Christoffel tensor and related notes undated [1930s]**
Box 24, Folder 5 **Relativistic cosmology: Miscellaneous notes undated [1930s]**
Box 24, Folder 6 **Relativity problems (1) undated [1930s]**
Box 24, Folder 7 **Relativity problems (2) undated [1930s]**
Box 24, Folder 8 **Relativity problems (3) undated [1930s]**
Box 24, Folder 9 **Relativity (general formulations) undated [1930s]**
Box 24, Folder 10 **Tensors and hypertextors undated [ca. 1930]**
Box 24, Folder 11 **Sandage charts: Humason, Mayall, Sandage, Redshifts and magnitudes of extragalactic nebulae, Astrophysical Journal 61 1956**
Box 24, Folder 12 **Notes, graphs, calculations re work of Humason, Mayall, Sandage ca. 1956**
Box 24, Folder 13 **Investigation of nebular images undated**
Box 24, Folder 14 **Notes, misc undated**
Box 24, Folder 15 **Notebook: Untitled 1936-41**
Box 24, Folder 16 **Notebook: Star-Streaming 1939-47**

Note

With two small notebooks on stellar dynamics.

Box 24, Folder 17 **Notebook: Notes CIT 1948-57**
Box 24, Folder 18 **Notebook: Notes CIT 1952-57**
Box 24, Folder 19 **Cosmology/relativity notes 1959-60, undated**

Series 9. **Reprints of Others**

Box 25, Folder 1 **A**
 Scope and Content Note
 Arcidiacono, G. 1958
 Arnowitz, R., S. Deser and C. W. Misner 1960

Box 25, Folder 2

B

Scope and Content Note

Baade, Walter A. 1951, 1956
Badessa, R. S., R. L. Kent and J. C. Nowell 1959
Baldwin, J. E. 1954
Baldwin, J. E., and B. Elsmore 1954
Baldwin, J. E., and D. W. Dewhirst 1954
Becquerel, Jean 1923
Bergmann, Peter G., and Ralph Schiller 1953
Bertotti, B. 1954
Bhatnagar, Prabhu L., and Fred L. Whipple 1954
Bludman, S. A. 1960
Boardman, John, and Peter G. Bergmann 1959
Bochner, S. 1946
Bondi, H. 1957, 1960
Builder, Geoffrey 1958-1959

Box 25, Folder 3

C-F

Scope and Content Note

Cedarholm, J. P. , G. F. Bland, B. L. Havens and C. H. Townes 1958
Cedarholm, J. P., and C. H. Townes 1959
Clark, G. L. 1941
Dicke, R. H. 1960
DuBridge, L. A. 1952
Einstein, A., and L. Infeld 1949
Eisenhart, Luther P. 1960
Elsmore, B., and G. R. Whitfield 1955
Estabrook, Frank B. 1959
Ewing, Maurice 1960
Federbush, P. 1961
Fierz, M. 1957
Fokker, A. D. 1949

Box 25, Folder 4

G-H

Scope and Content Note

Gamov, G. 1952
Gething, P. J. D. 1950
Graves, John C., and Dieter R. Brill 1960
Havas, Peter 1957
Heckmann, O. 1957
Heezen, Bruce C. 1960
Hoffmann, Banesh 1952-1953
Hogarth, J. E. 1961
Hubble, Edwin P. 1951
Humason, M. L., N. U. Mayall and A. R. Sandage 1956

Box 25, Folder 5

I

Scope and Content Note

Infeld, L., and A. Schild 1949
Infeld, L., and A. Scheidegger 1951
Infeld, Leopold 1953, 1957-1958
Ise, John, Jr. 1957
Israel, W. 1958

Box 25, Folder 6

J-L

Scope and Content Note

Joseph, V. 1957
Just, Kurt 1959-1960
Keith, James C. 1959
Klein, O. 1954
Laue, M. von 1956
Lindblad, B. 1948
Loening, Grover undated
Lyttleton, R. A., and H. Bondi 1959

Box 25, Folder 7

Lemaître, G.

Box 26, Folder 1

M

Scope and Content Note

Mast, C.B., and Strathder, J. 1959
McVittie, George C. 1950, 1952-1955, 1957
Morrison, Philip, Stanislaw Olbert and Bruno Rossi 1954
Mould, Richard A. 1959
Muller, C. A. 1956
Munitz, Milton K. 1951-1952, 1954
Musen, Peter 1960

Box 26, Folder 2

N-O

Scope and Content Note

Neyman, Jerzy 1955
Neyman, Jerzy, and Elizabeth L. Scott 1952-1956
Neyman, Jerzy, Elizabeth L. Scott and C. D. Shane 1953, 1955
Northrop, F. S. C. 1930
Oppenheimer, J. R., and H. Snyder 1939
ÓRaifeartaigh, L., and J. L. Synge 1958

Box 26, Folder 3

P-R

Scope and Content Note

Packard, David 1960
Parker, Eugene N. 1953
Perkins, James A., and Robert E. Sessions 1951
Pirani, F. A. E. 1955-1957, 1960-1961
Pirani, F. A. E., and G. J. Whitrow 1954
Raychaudhuri, Amalkumar 1952-1953, 1955
Rayner, C. B. 1953
Robinson, Ivor 1961
Rubin, Herman, and Patrick Suppes 1954
Ryle, Martin 1955
Ryle, M., and P. A. G. Scheuer 1955

Box 26, Folder 4

Sa-Sc

Scope and Content Note

Salzman, G., and A. H. Taub 1954
Sandage, Allan R. 1953, 1958, 1961
Scheidegger, Adrian E. 1949-1951, 1953
Schiff, L. I. 1960
Schild, Alfred 1956, 1959
Schlegel, Richard 1958-1959
Schwarzschild, Martin 1952, 1954
Scott, E. L., C. D. Shane and M. D. Swanson 1954

Box 26, Folder 5

Se-V

Scope and Content Note

Shakeshaft, J. R. 1954
 Spitzer, Lyman, Jr., and Martin Schwarzschild 1951, 1953
 Synge, J. L. 1950, 1954, 1957-1960
 Taub, A. H. 1951, 1956-1957, 1959
 Terrell, James 1959-1960
 Törnebohm, Håkan, and Adolf Grünbaum 1955
 Urey, Harold C. 1956
 Viscardini, Mario 1949

Box 26, Folder 6

W-Z

Scope and Content Note

Wasserburg, G. J., and R. J. Hayden 1955
 Wasserburg, G. J., R. J. Hayden and Kenneth J. Jensen 1956
 Weber, J. 1960
 Weber, J., and D. Zipoy 1960
 Weisskopf, V. F. 1957, 1960
 Weizsäcker, Carl Friedrich von 1951
 Wetherill, G. W., G. J. Wasserburg, L. T. Aldrich, G. R. Tilton and R. J. Hayden 1956
 Weyl, Hermann 1930, 1934, undated
 Weysenhoff, Jan 1952
 Wheeler, John A. 1960-1961
 Wheelon, Albert D. 1952
 Whipple, Fred L. 1955
 Whitrow, G. J. 1953, 1954
 Whitrow, G. J., and D. G. Randall 1951
 Whitrow, G. J. and G. E. Morduch 1960
 Winterberg, F. 1956

Series 10. **Biographical**

Box 27, Folder 1

Family correspondence 1925-73

Box 27, Folder 2

Biographical sketches, vitae, press releases, obituaries 1945-61, undated

Box 27, Folder 3

Bibliographies 1932, undated

Box 27, Folder 4

PhD thesis 1925

Box 27, Folder 5

Letters of appointment 1929-44

Box 27, Folder 6

Medal for Merit 1946

Box 27, Folder 7

Bank of Sierra Madre 1950-56

Box 27, Folder 8

Doodles undated

Box 27, Folder 9

Humor undated

Box 27, Folder 10

Bureau of Ordnance, copy of telegram undated

Note

Original document dated 1864.

Box 27, Folder 11

News clippings: Einstein 1929, 1934

Box 27, Folder 12

News clippings: H. P. Robertson 1951-58, undated

Box 27, Folder 13

Miscellaneous biographical 1930, 1946, 1956-58, undated

National Academy of Sciences (NAS)

Box 27, Folder 14

NAS: Biographical memoir: J. Greenstein letter 1980 Mar 12

Box 27, Folder 15

NAS: Biographical memoir: first draft undated

Box 27, Folder 16

NAS: Biographical memoir: Correspondence with F. Seitz 1975

Box 27, Folder 17

NAS: Biographical memoir: Correspondence with W. Golden et al. 1975

Box 27, Folder 18

NAS: Biographical memoir: Miscellaneous 1961-62

Box 27, Folder 19

NAS: Robertson Memorial Lecture and Fund: Correspondence 1961-71

Box 27, Folder 20

NAS: Robertson Memorial Lecture and Fund: Lecture introductions by J. Greenstein 1963[?], 1971

- | | |
|-------------------|--|
| Box 27, Folder 21 | SIAM Publications, Robertson memorial issue: Correspondence 1962 |
| Box 28, Item 1 | Microfilm: Relativity lectures filmed 1963 Sep
Physical Description: 35 mm negative print. |
| Box 28, Item 2 | Microfilm: Notes on Lorentz transformations, special and general relativity filmed 1963 Nov
Physical Description: 35 mm negative print. |
| Box 28, Item 3 | Glass slides: Foundations of Mechanics undated
Physical Description: Lantern slides. |
| Box 28, Item 4 | Glass slides: Geometry undated
Physical Description: Lantern slides. |
| Box 28, Item 5 | Glass slides: Cosmology undated
Physical Description: Lantern slides. |
| Box 28, Item 6 | Glass slides: Berne Lecture undated
Physical Description: Lantern slides. |
| Box 28, Item 7 | Glass slides: R vs t [?] curves undated
Physical Description: Lantern slides. |
| Box 29, Item 1 | Annotated bibliography undated
Physical Description: Card file. |