

David Rittenhouse Inglis Papers

1929-1980 (*Bulk:* 1965-1980)

12 boxes (5.75 linear ft.)

Call no.: FS 033

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David R. Inglis enjoyed a distinguished career in nuclear physics that ranged from theoretical work on the structure of the nucleus in the 1930s to the development of the atomic bomb in the 1940s and work on renewable energy in the 1960s and 1970s. A Professor of Physics at UMass from 1969-1975, Inglis was a founding member of the Federation of American Scientists and from the mid-1940s on, he dedicated himself to informing public policy on the dangers of nuclear technologies.

The Inglis Papers offer a perspective on the life and career of a theoretical physicist who grew from an early involvement in the Manhattan Project to becoming a committed critic of nuclear weaponry and nuclear power. Although the collection is relatively sparse in unpublished scientific work, it includes valuable correspondence relating to Inglis's efforts with the Federation of American Scientists and other organizations to influence public policy on issues relating to disarmament and nuclear power.

See similar SCUA collections:



Background on David Rittenhouse Inglis

A namesake and descendent of David Rittenhouse, one of early America's preeminent physical scientists, David R. Inglis enjoyed a career in nuclear physics that ranged from theoretical work on the structure of the nucleus in the 1930s to the development of

the atomic bomb in the 1940s to the protracted struggle against nuclear weaponry and nuclear power. Born in Detroit, Michigan, on October 10, 1905, Inglis graduated from Amherst College (1928) before receiving his doctorate from the University of Michigan in 1931 for a dissertation on energy relations in complex spectra.



Like many ambitious young scientists of his generation, Inglis traveled abroad to strengthen his credentials. Well versed in current issues in the field from having attended the series of symposia on theoretical physics held in Ann Arbor, Inglis spent a year in Heidelberg, immersing himself in the rapidly developing field of quantum mechanics. When he returned to the States in 1933, however, he found himself in a state of academic vagabondage, passing through a succession of faculty positions at Ohio State (where he met and married Dorothy Kerr), Pittsburgh, and Princeton before landing at Johns Hopkins in 1938. There, he devoted himself to developing a program in experimental nuclear physics while conducting significant research on the nature of spin-orbit coupling in ${}^7\text{Li}$. When later confirmed, this work is believed, as Hanna et al. (1997) report, to represent the first assignment of an excited nuclear level based on a microscopic quantum mechanical theory.

Inglis' tenure at Hopkins was interrupted by wartime service with the Ballistics Research Laboratory at Aberdeen Proving Grounds (1943) and the Manhattan Project at Los Alamos Laboratory, N.M. (1943-1946). He returned to civilian life in 1946 and to his work on atomic structure and angular distribution studies, but the war was clearly a watershed in the development of his commitment to what he called public affairs. Having gained an insider's perspective on nuclear annihilation, he gradually turned against nuclear power. Joining the Argonne National Laboratory as a senior scientist in 1949, Inglis spent two decades in the development of peaceful uses for nuclear power, but more notably, he emerged as a prominent figure in the nuclear disarmament movement. As a founding member of the Federation of American Scientists

and participant in the Pugwash conferences during the 1950s and 1960s, Inglis was an prominent voice for rationality in discussions of nuclear weaponry. As early as 1951, he called for the creation of a federal agency for arms control and disarmament (not established for another nine years later), and both in congress and before the public, he lobbied steadily for nuclear disarmament and for a partial nuclear test ban (approved in 1963), and against nuclear proliferation and the development of antiballistic missiles. A series of articles he published in the *Bulletin of the Atomic Scientists*, *Saturday Review*, and the *New Republic* were influential in raising public awareness of the dire implications of radioactive fallout, the hydrogen bomb, and the complexities of international arms control.

After retiring from Argonne and joining the faculty at UMass Amherst in 1969, Inglis' activism expanded to include a concern with American energy policy. Calling attention to the critical problems of global dependence on fossil fuels and the dubious safety of nuclear reactors and long-term waste storage, Inglis became an advocate for alternative energy, particularly wind power, writing several books and chapters on nuclear and alternative energy. He felt a strong responsibility, as he wrote, for establishing a dialogue between scientists and the public as the best means of preserving democracy.

A highly prolific writer, Inglis contributed dozens of articles both in theoretical physics and public affairs over the course of his career, and was recipient of a number of honors and awards, including honorary degrees from Amherst College (1963) and the University of Illinois (1973), and the Leo Szilard Award for Physics in the Public Interest (1974) for his work on the social and strategic implications of nuclear energy. Inglis retired from UMass in 1975 and over the last several years of his life, continued occasionally to contribute to public debates. Inglis and his wife Betty (Dorothy) moved into the Applewood retirement community in September 1991. Betty died in 1993, followed by David died on December 3, 1995.

Scope of collection

The papers of David R. Inglis offer a perspective on the life and career of a theoretical physicist who grew from an early involvement in the Manhattan Project to becoming a committed

critic of nuclear weaponry and nuclear power. Although the collection is relatively sparse in unpublished scientific work, it includes outstanding correspondence relating to Inglis's work with the Federation of American Scientists and other organizations, and his efforts to influence public policy on issues relating to nuclear power. The collection also includes the majority of Inglis' scientific publications and his published contributions on public affairs, as well as selected subject files, course notes, and lab notes. The later materials in the collection reflect Inglis's late-career work in alternative energy.



Among the collection's highlights are copies of notes distributed at Los Alamos University in 1945-1946, including Teller and Konopinski on quantum mechanics and Schiff and Baroody on statistical mechanics; Inglis' notes from his work at Argonne National Laboratories; and a six part oral history conducted with Inglis in 1989, looking back at his career.

Series descriptions

Series 1. Correspondence

1945-2003 1.25
linear ft.

Although the series contains few letters on purely scientific matters, Inglis's correspondence is a rich and valuable resource for study of the social and political turmoil afflicting the American nuclear physics community from the end of the Second World War to the early 1960s. With a distinctly liberal conscience, Inglis was deeply immersed in professional organizations responding to controversies over loyalty issues and security clearances during the early years of the Cold War, and beginning in the mid-1950s, he took a leading and -- at least for some co-workers at Argonne National Laboratory -- controversial role as an advocate for non-proliferation, disarmament, and a nuclear test ban.

Of particular note, Inglis's correspondence contains an interesting and important series of letters documenting Inglis's work with the Federation of American Scientists from 1946-1960, and less extensive correspondence relating to his activities with the World Association of World Federalists and the World Federation of Scientific Workers. Founded in 1945 by scientists from the Manhattan Project, the FAS regularly addressed key issues in American public policy, especially with regard to the potential dangers of nuclear weaponry and other scientific and technical advances. The series also contains interesting correspondence relating to

Inglis's lobbying efforts for nuclear disarmament, including letters to and from public officials from President Dwight Eisenhower to Senators Everett Dirksen, Hubert Humphrey, and Paul Douglas, and the editorial boards of several newspapers and magazines.

Also worthy of note are letters and documents pertaining to the establishment of the Midwest Nuclear Theorists's Group and the Nuclear Theorists's Group at Argonne National Laboratory, and some correspondence relating to the possibility of siting nuclear reactors underground, including a fine letter from Edward Teller.

Series 2. Subject files

1929-1976 2.25
linear ft.

Materials associated with Inglis, primarily during his . Inglis' increasing interest in disarmament is reflected in SIPRI.

The series also includes correspondence from Inglis' publishers regarding his book *Nuclear Energy Its Physics and Social Challenge* (including some interesting reviewers' comments on the manuscript), from the editors at *Encyclopedia Britannica* regarding his entry on the atomic nucleus, and drafts and notes on several of his articles on disarmament and related topics. The materials relating to Inglis' involvement in two UMass Amherst initiatives -- the Global Survival Program (1972-1973) and the review committee for the Institute for Man and His Environment (1971-1974) -- offer some insight into faculty efforts during the early 1970s.

Finally, the series includes a useful series of spiral-bound research notes kept by Inglis during his period at the Argonne National Laboratory (1955-1968) and as a visiting scientist at CERN (1957-1959).

Series 3. Course Notes

1945-1965 0.5 linear
ft.

Mimeograph and other copies of notes distributed for courses attended by Inglis on topics in nuclear physics. Of particular interest are notes from two courses taken at "Los Alamos University," formed by Hans Bethe and Enrico Fermi during the last days of the Manhattan Project: Teller and Konopinski's "Introduction to Quantum mechanics" and Schiff and Baroody's "Statistical Mechanics."

Series 4. Publications by Inglis (Reprints)

1929-1980 0.5 linear
ft.

Reprints of technical and "public affairs" articles by Inglis from throughout his career. The articles, mostly reprints and offprints, are filed alphabetically by title.

Series 5. Audiovisual

1989

1.0 linear
ft.

In 1989, Inglis agreed to take part in an extensive series of oral history interviews, discussing his perspective on the history of nuclear physics since the 1920s, with particular focus on the development of nuclear weaponry and nuclear power. The videotapes have been transcribed (see Ser. 1: Oral History) and edited.

The series also includes a dvd of Inglis lecturing to Allan R. Hoffman's undergraduate, non-major course at UMass on energy and arms control, where he discusses the Manhattan Project and the atomic bombing of Japan.

Collection inventory

Series 1. Correspondence

1946-1981

1.5 linear
ft.

Ajzenberg, Fay

1953

Box 1: 1

Allison, Samuel K.

1951

Box 1: 2

Letters between Allison (Univ. of Chicago) and Louis A. Turner (Argonne) re: Robert Oppenheimer case and the upcoming International Conference.

Alsop, Joseph

1960

Box 1: 3

American Academy of Arts and Sciences

1958

Box 1: 4

William Davidon plans a summer study on international arms control.

American Friends Service Committee

1953-1960

Box 1: 5

Includes draft of "An appeal to President Eisenhower" and press release regarding Formosa Straits crisis.

Anderson, Clinton P.

1959-1960

Box 1: 6

Re: international nuclear test ban. Includes copy of "Policies for a Nuclear Future" (press release from Sen. Anderson's remarks) and "Statement of Senator Clinton P. Anderson on Russian Test Ban

Proposal."

Appeal to the British Physicists Against Hydrogen-bomb Testing by the Undersigned Japanese Physicists	1957	Box 1: 7
Argonne National Laboratory. Nuclear Theory Working Group	1962-1963	Box 1: 8
Correspondence and memos regarding organization of the group, including 2 TLsS from Eugene Wigner, TLS from Aage Bohr, Akito Arima, Arthur K. Kerman, and Richard Ferrell.		
Argonne National Laboratory: Plan of Organization and Statement of Operating Policy	1946 June 14	Box 1: 9
Arima, Akito	1962	Box 1: 10
Association of Scientists for Atomic Education	1946-1948	Box 1: 11
Includes "Policy guide for atomic education."		
Austern, Norman	1956-1963	Box 1: 12
Baltimore Association of Scientists. Constitution	Undated	Box 1: 13
Bayman, Benjamin	1966	Box 1: 14
Bethe, Hans newspaper clipping	Undated	Box 1: 15
Bloch, Robert	1955	Box 1: 16
Offprint of article, "On responsibility of scientists," signed by Bloch.		
Bohr, Aage	1962	Box 1: 17
Letter to Bohr on summer plans.		
Bouchez, Robert	1970	Box 1: 18
Bradbury, Norris E.	1946	Box 1: 19
Memo from Inglis on "Philosophy of the Laboratory" and future development of weapons [Los Alamos]		
Breit, Gregory	1949	Box 1: 20

Brown, Harrison 1958 Box 1: 21

Statement before the Senate Subcommittee on Disarmament.

Brueckner, Keith 1961 Box 1: 22

Re: Institute for Defense Analyses.

Cahn, Anne H. 1970 Box 1: 23

Chandrasekhar, S. 1953 Box 1: 24

Chicago Committee on a Sane Nuclear Policy 1959 Box 1: 25

See also National Committee on a Sane Nuclear Policy.

Chicago Daily News 1959 Box 1: 26

Letter to the editor re: nuclear test ban.

Church, Frank 1960 Box 1: 27

Cockroft, J. D. 1950 Box 1: 28

Re: International Nuclear Physics Conference.

Cole, Michael 1962 Box 1: 29

Collins, Thomas 1960 Box 1: 30

Re: writing an editorial on nuclear policy in the Chicago Daily News.

Compton, Arthur H. 1952-1953 Box 1: 31

Condon, E. U. 1954 Box 1: 32

Statement of support concerning Condon in obtaining security clearance.

Conferences 1951-1974 Box 1

Correspondence, programs, and other organizational material relating to scientific conferences.

• Conferences 1951-1961 Box 1: 33

• Conferences 1962-1964 Box 1: 34

• Conferences	1965-1968	Box 1: 35
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• Conferences	1969-1974	Box 1: 36
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Court, Andrew T.	1958	Box 1: 37
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Cromer, Alan H.	1959	Box 1: 38
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Darrow, Karl K.	1954-1956	Box 1: 39
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American Physical Society conferences.

Dieke, G. H.	1948	Box 1: 40
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Dirksen, Everett M.	1959	Box 1: 41
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Disarmament	1957-1960	Box 1: 42
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Includes letter to Senate Subcommittee on Disarmament, Statement by 18 German Physicists Barring Work on Nuclear Weapons (1957); Dept. of State Press Release re: Soviet experts in Geneva (1959); "A scientific approach to the disarmament problem," Address delivered by M. Mooney at a luncheon of the Society of Rheology, 1959; Recommendations from a Conference to Plan a Strategy for Peace, Arden House, 1960.

Disarmament Background Series	1957-1958	Box 1: 43
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Press releases from White House Disarmament Staff.

Douglas, Paul	1959	Box 1: 44
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Duerr, Hans Peter	1957	Box 1: 45
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Dulles, John Foster	1953	Box 1: 46
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Disarmament (from Federation of American Scientists).

Dyson, Freeman	1960	Box 1: 47
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Re: Hans Bethe and prospect of a fission-free bomb.

Dynamo theory of the earth's magnetic field	1981	Box 1: 48
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Eisenhower, Dwight D.	1959	Box 1: 49
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Press release from the White House on the detection and identification of underground nuclear tests.

	1953	Box 1: 50
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Elliott, L. G.

Farley, Philip J.

1958-1959

Box 1: 51

Includes notes on the Fourth Country Problem.

Federation of American Scientists

1946-1960

Box 1

Re: issues over loyalty, House Un-American Activities Committee, the atomic bomb, and some organizational information on Baltimore chapter of FAS.

- Federation of American Scientists

1946-1947

Box 1: 52

- Federation of American Scientists

1948 Jan.-July

Box 1: 53

- Federation of American Scientists

1948 Aug.-Dec.

Box 1: 54

Much on civilian vs military control of the atomic bombs; loyalty problems and clearance, the E.U. Condon case; Scientists Committee on Loyalty Problems; House Un-American Activities Committee.

- Federation of American Scientists

1949

Box 1: 55

- Federation of American Scientists

1951

Box 1: 56

- Federation of American Scientists

1952

Box 1: 57

E.U. Condon case; McCarthy; House Un-American Activities Committee.

- Federation of American Scientists

1953

Box 1: 58

Disarmament.

- Federation of American Scientists

1957

Box 1: 59

- Federation of American Scientists

1960

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- Federation of American Scientists. Scientists' Committee on Loyalty Problems

1948

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Ferrell, Richard A.

1962

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Flanders, Donald A.

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Fohl, Lois

1958

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Foster, Henry

1974

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Fowler, John M.

1959

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French, J. Bruce

1957-1963

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Gerjuoy, E.

1953

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Ghiorso, Albert

1962-1963

Box 2: 2

Gold, Louis

1950

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Goldberger, Arnold

1961

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Gove, Harry E.	1957	Box 2: 5
Graff, Robert	1971	Box 2: 6
Guth, Eugene. Blueprint for peace	Undated	Box 2: 7
Hafner, Everett Mark	1954	Box 2: 8
Halliday, David	1952-1957	Box 2: 9
Harpers Magazine	1959	Box 2: 10
Hellund, Emil	1954	Box 2: 11

Correspondence with and about Hellund, a colleague imprisoned on an unspecified morals charge seeking Inglis's help finding a position as theoretical physicist.

Herter, Christian	1960	Box 2: 12
Hough, Paul V. C.	1953	Box 2: 13
Hudspeth, Emmett L.	1954	Box 2: 14
Humphrey, Hubert H.	1958-1960	Box 2: 15

Correspondence (to Humphrey) and press releases relating to disarmament and test ban.

Ichimura, Munetake	1967	Box 2: 16
Indiana University	1963	Box 2: 17
Inglis, David R. Certificate of participation in the Manhattan Project	1945 Aug. 6	Box 2: 18
Inglis, David R. Notes and drafts of letters regarding nuclear weapons	1960	Box 2: 19

Includes photocopy of Freeman Dyson's "Future development of nuclear weapons."

Inglis, David R. Notes on pear-shaped nuclei	ca.1955	Box 2: 20
Inglis, David R.: Publications, drafts and correspondence	1960-1971	Box 2
<ul style="list-style-type: none"> Inglis, David R.: The Atom and Malthus Draft and correspondence. 	1970	Box 2: 21
<ul style="list-style-type: none"> Inglis, David R.: Nuclear Energy 	1971	Box 2: 22
<ul style="list-style-type: none"> Inglis, David R.: The Role of Communications in Avoiding the Worldwide Diffusion of Nuclear Weapons capabilities (preliminary draft) 	1960	Box 2: 23
<ul style="list-style-type: none"> Inglis, David R.: Test-ban Agreement or Resumption of Tests? 	1960	Box 2: 24

Janushkovskaya, Dr.	1971	Box 2: 25
Jauch, Joseph M.	1954	Box 2: 26
Jordan, Walter H.	1970-1971	Box 2: 27

Kahn, Herman	1959	Box 2: 28
Kerman, Arthur	1962	Box 2: 29
Kern, Paul J.	1948	Box 2: 30

Invitation to join the Consumers Union Board, which is likely to be targeted by the Thomas Committee.

Kistiakowsky, George B.	1959	Box 2: 31
Knox, Carol B.	1970	Box 2: 32
Lane, Anthony M.	1955	Box 2: 33
Langford, Cooper H.	1963	Box 2: 34
Lapp, Ralph	1958-1960	Box 2: 35
Laucks, Irving F.	1959	Box 2: 36

Includes a copy of Laucks' pamphlet, Preparedness for Peace: Proposal for a First Step.

Lawson, Bob	1957	Box 2: 37
Lee, Kiuck	1957-1963	Box 2: 38
Lee, Linwood L.	1954	Box 2: 39
Levinger, Joseph S.	1960	Box 2: 40
Lipkin, Harry	1962	Box 2: 41
Litherland, A. E.	1957	Box 2: 42
Los Alamos Scientific Laboratory	1945-1947	Box 2: 43

Includes memo from J. Robert Oppenheimer of future of Los Alamos (1945).

Magnuson, Warren G.	1959	Box 2: 44
Malin, Murray E.	1961	Box 2: 45
Manley, John	1946-1956	Box 2: 46
Maryland Independent Citizens' Committee of the Arts, Sciences, and Professions	1946	Box 2: 47
Massachusetts Institute of Technology	1961	Box 2: 48

Seeking job openings.

Mayer, Maria	ca.1972	Box 2: 49
Notes on recollections of Mayer.		
McGovern, George	1970	Box 2: 50
McMahon, Brien	1949	Box 2: 51
McVay, Kirk	1962	Box 2: 52
Meikeljohn, Donald	1954	Box 2: 53
Midwest Nuclear Theorists	1963-1970	Box 2: 54
Correspondence and organizational materials for Nuclear Theorists' Group; records of meetings; correspondence with George Volkoff.		
Milich, Paul W.	1948	Box 2: 55
Miller, John	1959	Box 2: 56
Mooney, Melvin	1960	Box 2: 57
Mottelson, Ben R.	1961	Box 2: 58
Mukherjee, Shankar N.	1969	Box 2: 59
National Broadcasting Company	1960	Box 2: 60
National Committee for a Sane Nuclear Policy	1959-1960	Box 2: 61
National Planning Association. Committee on Security Through Arms Control	1958-1960	Box 2: 62
National Science Foundation. Testimony on a proposed National Science Foundation delivered by Professor H. C. Wolfe...	1948	Box 2: 63
New Republic	1959=1960	Box 2: 64
Letters to the editor.		
Newspaper clippings	Undated	Box 2: 65
Mostly on arms negotiation.		
New York Times	1957-1960	Box 2: 66

Letters to the editor.

Northern Illinois University	1973-1974	Box 2: 67
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Ohnuma, S.	1959	Box 2: 69
Pal, Manoj Kumar	1957	Box 2: 70
Perrin, Francois	1959	Box 2: 71
Peterson, Gerald	2003	Box 2: 72
Physics Teacher	1968	Box 2: 73
Polvani, G.	1955	Box 2: 74
Porter, C. E.	1955	Box 2: 75
Redish, Edward F.	1968	Box 3: 1
Richards, Hugh T.	1952	Box 3: 2
Ridenour, Louis N.	1954	Box 3: 3
Roberts, Walter	1956	Box 3: 4
Roman, Paul	1964	Box 3: 5
Rosenzweig, Norbert	1959	Box 3: 6
Roser, Francis X.	1949	Box 3: 7
Rotary Club of Philmont (N.Y.)	1973	Box 3: 8
Russek, Arnold	1957-1958	Box 3: 9
Rustgi, Moti	1957	Box 3: 10
Seitz, Frederick	1952	Box 3: 11
Smith, J. H.	1968	Box 3: 12
Smith, Ralph Carlisle	1947	Box 3: 13
Spiro, Herbert	1963	Box 3: 14
Sperry-Rand Research Center	1961	Box 3: 15
Stassen, Harold E.	1957	Box 3: 16
Stevenson, Adlai	1960	Box 3: 17
Stone, I. F.	1960	Box 3: 18
Strauss, Louis E.	1959	Box 3: 19

Includes letter of reprimand to Inglis for Strauss' nomination before the Senate Commerce Committee.

Stubbins, Warren F	1955	Box 3: 20
Teillac, Jean	1962	Box 3: 21
Temmer, George M.	1966	Box 3: 22
Thaler, R. M.	1961	Box 3: 23
Thomas, Norman	1959	Box 3: 24

Post-War World Council and National Committee for a Sane Nuclear Policy are organizing public hearings on the meaning of war in a nuclear age.

Thompson, Frank	1959	Box 3: 25
Trinklein, Frederick E.	1969	Box 3: 26
Tsipis, Kosta	1971	Box 3: 27
Tucker, Charles R.	1970	Box 3: 28
Turner, L. A.	1956	Box 3: 29
Underground nuclear reactors	1960-1974	Box 3: 30

Correspondence and notes relating to siting nuclear reactors underground. Includes 2p. TLS from Edward Teller.

University of California	1946	Box 3: 31
University of Texas	1952	Box 3: 32
Uretsky, Jack	1961	Box 3: 33
Vallarata, Manuel S.	1954	Box 3: 34
Van Allen, J. A.	1951	Box 3: 35
Visscher, William M.	1956	Box 3: 36
Vogt, E. W.	1963	Box 3: 37
Volkoff, George M.	1963-1964	Box 3: 38
Waldman, Bernard	1954	Box 3: 39
Wattenberg, Albert	1955	Box 3: 40
Way, Kay	1954-1955	Box 3: 41
Weinberg, Alvin	1970	Box 3: 42
Wigner, Eugene	1959-1970	Box 3: 43
Wilson, Robert R.	1948	Box 3: 44
Workshop on World Disarmament	1952-1953	Box 3: 45
World Association of World Federalists	1957	Box 3: 46

World Federation of Scientific Workers	1948-1971		Box 3: 47
Wu, T. Y.	1955		Box 3: 48
Yarmolinski, Adam	1960		Box 3: 49
York, Herbert	1960		Box 3: 50

Series 2. Subject files	1929-1976	0.5 linear ft.	
Atomic Energy Research Establishment, Harwell. Programme for Nuclear Physics Conference	1950		Box 4: 1
Class notes Principle of microscopic reversibility for hard elastic spheres; Lorentz transformations; Theory of atomic spectra	1935		Box 4: 2
Disarmament: ephemera and published works Including material from World Law Fund, <i>War/Peace</i> (journal)	ca.1960-1973		Box 4: 3
Encyclopedia Britannica: Correspondence Regarding Inglis' article "Nucleus, Atomic."	1970-1974		Box 4: 4
Encyclopedia Britannica: Drafts Short and long versions of "Nucleus, Atomic."	ca.1971		Box 4: 5
Encyclopedia Britannica: Notes	ca.1971		Box 4: 6
Eppler, E. P.	1974		Box 4: 7
French, Bruce	1960	2 TlsS	Box 4: 8
Global Survival Program: Correspondence and notes Correspondence and memos relating to Fall faculty colloquium, 1972, and Global Survival Program.	1972		Box 4: 9
Global Survival Program: Publications Includes: Carl A. Carlozzi, "Resources and People;" Leon Clark, "Population education;" Leon Clark, "World population;" David R. Inglis, "Alternatives to the Arms Race with its Risk of Nuclear War;"	1972	4 items	Box 4: 10

David R. Inglis, "Nuclear Weapons Control on the Way to Disarmament;" Betty G. Lall, "A Comprehensive Nuclear Test Ban Treaty."

Hill, David L.: Proposed dynamical analysis of nuclear fission	1948 Mar. 6	Preprint	Box 4: 11
Institute for Man and His Environment. Notes Notes, background material, correspondence relating to IMHE.	1971-1974	ca.35 items	Box 4: 12
Institute for Man and His Environment. Publications Printed background materials for use by members of the Review Committee.	1974	6 items	Box 4: 13
Institute for Man and His Environment. Review Committee Report	1974	2 items	Box 4: 14
International Conference Nuclear Physics and the Physics of Fundamental Particles -- Proceedings Published proceedings, with preprint of Enrico Fermi, "High Energy Nuclear Events."	1951		Box 5: 1
Marquez, Luis	1962	TLS, enclosure	Box 5: 2
New Republic Article submitted for publication ("Test ban hopes and handicaps") and request from editor Gil Harrison for comments on "The meaning of moving forward."	1960 April 13-Nov. 23	3 items	Box 5: 3
Nuclear Energy: Its Physics and Social Challenges. Agreements and manuscript reviews	1970-1971		Box 5: 4
Nuclear Energy: Its Physics and Social Challenges. Correspondence	1970-1971		Box 5: 5
Nuclear Energy: Its Physics and Social Challenges. Correspondence	1972-1976		Box 5: 6
Nuclear Energy: Its Physics and Social Challenges. Manuscript	ca.1971	4 folders	Box 5: 7-10
Nuclear Energy: Its Physics and Social Challenges. Reviews	1973		Box 5: 11
Nuclear Reactor Safety (Wash 1400) Published articles on nuclear reactor safety. See also Papers: "Database and the conclusion of WASH 1400"	1971-1974		Box 6: 1

Oppenheimer, J. Robert	1954	3 items	Box 6: 2
<ul style="list-style-type: none"> Atomic Energy Commission: "Statement by the Atomic Energy Commission" [regarding decision to deny Oppenheimer clearance to restricted material] 	1954 June 29		
<ul style="list-style-type: none"> Smyth, Henry D.: "Statement by the Atomic Energy Commission" [regarding decision to restore Oppenheimer's security clearance] 	1954 June 29	2 copies	
Oral History transcripts (original), parts 1-6	1989 Feb. 16		Box 6: 3
Interviewers: Roy Cook, Ted Harrison, Francis Pichanick, Monroe Rabin, Janice Shafer, Morton Sternheim.			
Oral History transcripts (revised), parts 1-3	1989 Feb. 16		Box 6: 4
Edited by W.J. Mullin.			
O'Sullivan, T. C. letter to David R Inglis	1965 May 5	5 items	Box 6: 5
<ul style="list-style-type: none"> Abt, Clark C.: Arms control and disarmament: Implications of future weapon technology 	Undated		
<ul style="list-style-type: none"> Abt, Clark C.: Disarmament as a strategy 	1962 Dec.		
<ul style="list-style-type: none"> O'Sullivan, T. C.: Advantages and disadvantages of progressive zonal inspection of disarmament 	ca.1964		
<ul style="list-style-type: none"> O'Sullivan, T. C.: But what if nobody cheats? 	ca.1965		
Papers: Database and the Conclusion of Wash 1400	1974		Box 6: 6
Includes two drafts of the paper, notes, and some correspondence. See also Nuclear Reactor Safety publications/			
Papers: Degrees of Disarmament	ca.1960	2 TDfs	Box 6: 7
Papers: Disarmament Attitudes	ca.1960	TDf	Box 6: 8
Papers: Evanston	1960 Jan. 29	Notes	Box 6: 9
Outline (for article?) on recent disarmament talks.			
Papers: Geneva in Perspective	ca.1960	TDf, notes	Box 6: 10
Brief paper on disarmament talks in Geneva.			

Papers: Mossbauer Effect volume	1961	Box 6: 11
Correspondence, rough draft, and final draft relating to Inglis' contribution to Hans Frauenfelder's book, The Mossbauer Effect. Includes Inglis' article, "Resonance radiation of nuclei bound in a lattice," and Harry J. Lipkin, "Some sunoke features of the Mossbauer Effect."		
Papers: A Somewhat (More Over) Simplified Version of Greider's Analysis of the j -Dependent Double Period in Stripping Angular Distributions	1964	Box 6: 12
Includes drafts, notes, and correspondence of article written with Murray Peshkin.		
Personal and biographical	1963-1997	Box 7: 1
Includes obituaries, curriculum vita, news clippings, and photograph.		
Polarization of Proton Beams	1956-1962	Box 7: 2
Includes correspondence with Richard L. Garwin, et al., photograph.		
Research notes: Alpha and (jj) Shell Model	1953	Box 7: 3
Research notes: Argonne National Laboratory	1951-1952	Box 7: 4
Research notes: Argonne National Laboratory	1955-1957	Box 7: 5
Research notes: Argonne National Laboratory	1959-1961	Box 7: 6
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<ul style="list-style-type: none"> Davies, David: Seismic Methods for Monitoring Underground Explosions: An Assessment of the Status and Outlook 	1968 Aug.	Box 8: 1
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Inglis, David R.: Lecture to Allan Hoffman's class on the Manhattan Project and the atomic bombing of Japan	1972 May 1	DVD	Box 12: 4

Contents:

Allan R. Hoffman, a young physics professor at UMass Amherst, invited Inglis to lecture to his undergraduate, non-major course on energy and arms control.

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Access

The collection is open for research.

Provenance

Acquired from David R. Inglis, 1984, 1994.

Related Material

The UMass Amherst Libraries own the following of Inglis' books:

- Inglis, David R., *Dynamic Principles of Mechanics* (Philadelphia:, 1949). **Call no.:** UB150315 (Depository)
- Inglis, David R., *Nuclear Energy: Its Physics and Social Challenges* (Reading, Mass.:', 1973). **Call no.:** QC792.I55 (ISEL)
- Inglis, David R., *To End the Arms Race: Seeking a Safer Future* (Ann Arbor:', 1986). **Call no.:** JX1974.7.I54 1986 (Du Bois)
- Inglis, David R., *Wind Power and Other Energy Options* (Ann Arbor:', 1978). **Call no.:** TK1541.I54 (ISEL)

Digitized content

Six videotaped oral histories of Inglis have been digitized

Bibliography

Hanna, Stanley S., Dieter Kurath, and Gerald A. Peterson, "David Rittenhouse Inglis," *Physics Today* 50, 6 (1997): 109-110.

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Names

- Argonne National Laboratories.
- Bohr, Aage.
- Condon, Edward Uhler, 1902-1974.
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- Inglis, David Rittenhouse, 1905- .

- Los Alamos National Laboratory.
- Oppenheimer, J. Robert, 1904-1967.
- Teller, Edward, 1908-2003.
- University of Massachusetts Amherst. Department of Physics.
- University of Massachusetts Amherst. Institute for Man and His Environment.
- Wigner, Eugene Paul, 1902-1995.
- World Association of World Federalists.
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