

# Stanislaw M. Ulam Papers

1916-1984

(36 linear feet)

Ms. Coll. 54

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## Abstract

A gifted mathematician, Polish-born Stanislaw Ulam made contributions to set theory, topology, mathematical logic, and number theory, but is most widely remembered for his work in fostering the technical development of thermonuclear weapons. He was associated with Los Alamos Scientific Laboratories for most of the years between 1943 and 1965, and thereafter with the University of Colorado. These papers include personal and professional correspondence, manuscripts of both published and unpublished works, and memorabilia.

1984

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## Background note

Stanislaw Ulam was gifted mathematician who, during the course of his career, made significant contributions to set theory, topology, ergodic theory, probability, cellular automata theory, the study of nonlinear processes, the function of real variables, mathematical logic, and number theory. Perhaps his greatest achievement was the development of the Monte Carlo method for solving complex mathematical problems by electronic random sampling, but he made equally noteworthy contributions in hydrodynamics (three-dimensional fluid flow), the development of nuclear propulsion for space flight (Project Orion), and in fields as disparate as physics, biology, and astronomy. Yet despite the breadth of his scholarship, Ulam is most often remembered for the central role he played in the early development of the American hydrogen bomb.

Stanislaw Marcin Ulam was born in Lwów, Poland on April 13, 1909. The son of Jozef Ulam, a lawyer, and Anna Auerbach, the daughter

of an industrialist, Ulam developed an enthusiasm for astronomy and physics while still in his teens that led him into the serious study of mathematics. Enrolling at the Lwów Polytechnic Institute in 1927, he received his bachelor's (1931), master's (1932), and doctoral degrees in rapid succession (1933), intending on an academic career. Following receipt of his degree and a tour of Europe during which he visited mathematicians and scientists in Vienna, Zurich, Paris, and Cambridge, Ulam received an invitation from fellow mathematician, John von Neumann, to become a visiting scholar for three months at the Institute for Advanced Study in Princeton. There, he met G. D. Birkhoff, who brought him to Harvard to become one of the earliest members of the Society of Fellows (1936-1939) and later, lecturer (1940). During his five years



*Stanislaw Ulam*

in Cambridge, Ulam traveled back and forth between Poland and the States, and shortly after he suffered the death of his mother, his younger brother, Adam, was sent to join Stan in America. Adam was encouraged to enroll at Brown University, where Stanislaw was engaged in substitute teaching a graduate course on the theory of functions of several real variables.

In 1940, Ulam accepted a position as instructor at the University of Wisconsin, and quickly earned promotion to assistant professor. Both personally and professionally, his years in Wisconsin were eventful, beginning more than a decade of intense activity and life change. In an effort to enlist in the military in 1943, Ulam became a U.S. citizen, and in that same year, he married Françoise Aron, a French exchange student at Mount Holyoke College, whom he had met in Cambridge. The Ulams had one child, Claire, born in 1944. Although he taught mathematics courses to Army and Navy recruits, Ulam believed that he could contribute more directly and significantly to the war effort, and early in the autumn, 1943, John von Neumann again interceded in Ulam's life. Meeting furtively at a railroad station in Chicago, von Neumann convinced Ulam to join an unidentified, war-related project, and with the added urging of physicist Hans Bethe, Ulam agreed. Within a few months, he and his family moved to Los Alamos Scientific Laboratories (LASL), N.M., to begin work on the Manhattan Project.



*Claire Ulam at open house at Los Alamos labs, 1953*

Assigned to physicist Edward Teller's group, a unit of the scientific corps led by Enrico Fermi, Ulam set to work on the hydrodynamics of implosion, in preparation for construction of the atomic bomb. His key insight into the development of the fusion bomb may have been the recognition that compression of the nuclear material was necessary to produce an explosion, and that mechanical shock waves generated by a fission bomb could produce the force necessary. He later also struggled through the mathematical physics that set the stage for theoretical work in preparation of a "super" bomb - Teller's proposed thermonuclear hydrogen bomb. After this initial work on

Teller's problem, Ulam co-authored a report on multiplicative branching processes with David Hawkins -- a philosopher and non-professional mathematician and physicist at Los Alamos -- and C. J. Everett, a professor from the University of Wisconsin. This important paper marked some of the earliest work in branching process theory, a sub-field of probability theory. Yet as often proved true in his life, his academic successes were accompanied by personal misfortunes. While Ulam contributed to the completion of work at LASL in 1945, he learned of the loss of his entire immediate family in Poland at the hands of the Nazis: his

father, uncle, sister, and brother-in-law were killed. Only his brother Adam, who had matriculated at Brown University in 1940, survived.

With the war ended, Ulam hoped for a return to a more conventional academic career. Doubting his chances for promotion and tenure at Wisconsin, he accepted a teaching position at the University of Southern California during the fall, 1945. Shortly after his arrival in Los Angeles, however, he was struck by a mysterious illness -- later diagnosed as viral encephalitis - which was treated by a highly risky surgical procedure. Friends and colleagues noted that the illness and treatment seemed to affect Ulam's personality, and more profoundly, his approach to mathematical problem solving. After his recovery, they noted, he appeared to use his imagination more when searching for new mathematical ideas, and to rely less on his own technical solutions, and more on the hard work of others. The increasing fertility of his imagination was counterbalanced by a reluctance to delve into the technical details. Ulam's convalescence required a leave of absence from USC, during which he was invited to attend a secret conference at LASL in April, 1946, to discuss the development of Teller's thermonuclear bomb. Having played an important role in solving the technical problems associated with the development of the atomic bomb, he was asked to resume work at LASL on the development of the H-bomb. Associating Los Angeles with his illness, Ulam was willing to leave, and he once again resumed his work in the desert. While involved in research at LASL, he developed the Monte Carlo method, by which solutions to mathematical and physical problems are solved through random sampling. The Monte Carlo method became known as one of Ulam's most significant achievements, and he lectured on the subject frequently.

The reputation that surrounds Edward Teller and Ulam as "fathers of the hydrogen bomb" was solidified by their work during the early 1950s. In February, 1950, Ulam conclusively demonstrated that the amount of tritium Teller had estimated as necessary for his "classic super" design was insufficient, suggesting that only limited progress was possible within the parameters of the original super plan. Von Neumann confirmed Ulam's results through calculations run on the Princeton computer, one of the earliest electronic computing machines of its kind, and by April, 1950, Ulam had developed an alternative configuration, which he published jointly with Teller as a classified paper. Ulam's configuration proved to be a turning point in the development of the H-bomb, making possible the first thermonuclear reactions and the "Mike" test at Bikini Atoll in November, 1952.

After completing this phase of work at Los Alamos, Ulam was employed at Harvard, the Massachusetts Institute of Technology, and the University of California as a visiting professor from 1951-1956, before returning to LASL in 1957 to become research advisor to the director of the laboratory. He remained in that position until his retirement in 1965, though until his death in 1984, he continued to consult for Los Alamos. From 1965-1975, Ulam also held the chair of the mathematics department at the University of Colorado at Boulder, and for a portion of his tenure there, he was professor of biomathematics at the University of Colorado Medical School. Ulam continued to be actively involved in government science after the completion of his work on the H-bomb. His involvement with Project Rover at LASL resulted in the design of a nuclear-reactor rocket, while his work with Project Orion focused on the nuclear propulsion of a space vehicle. Under the Kennedy administration, he became involved in the nation's space program as a member to the President's Scientific Advisory Committee, the Air Force Space Planning Committee, and General Twining's Air Force Committee. He was also retained as a consultant by such companies as IBM, General Atomic, the North American Aviation Corporation, and Hycon Corporation, as well as the Neurosciences Institute of the Rockefeller University. Among Ulam's professional publications are several books and more than 150 articles in professional journals reflecting his diverse work in mathematics,

theoretical physics, and mathematical biology. Among these are *A collection of mathematical problems* (N.Y., 1960), a collaboration with fellow mathematician Mark Kac entitled *Mathematics and Logic* (N.Y., 1968), *Stanislaw Ulam: sets, numbers, universes* (Cambridge, 1974), and his autobiography *Adventures of a mathematician* (N.Y., 1976). The Scottish book was finally edited by R. Daniel Mauldin and published in 1982 after Ulam had distributed typescripts of the notebook to colleagues in the scientific community as early as 1957. This collection of unsolved mathematical problems was initially compiled in the Scottish Cafe in Poland before World War II by Ulam and fellow mathematicians, including his former graduate advisor, Stefan Banach. Works in progress at the time of Ulam's death in 1984 included "Problem Book II," the second volume to his *Collection of mathematical problems*. These number and breadth of these publications underscore Ulam's influence on many branches of twentieth century mathematics, as well as his signature application of theoretical and technological research to the sciences.

Ulam's memberships in professional and learned societies included the National Academy of Sciences, the American Academy of Arts and Sciences, the American Philosophical Society, the American Physical Society, the American Mathematical Society, the Mathematical Association of America, the Polish Mathematical Society, and the American Association for the Advancement of Science. He was also asked to serve on the board of governors for the Weizmann Institute of Science in Rehovot, Israel, and the Jurzykowski Foundation in New York. Ulam was honored with such awards as the

Sierpinski Medal, the Polish Millennium Prize, and the Polish American Congress Heritage Award, and was named the John von Neumann Lecturer of the Society of Applied and Industrial Mathematics. In recognition of his mathematical and scientific achievements, Ulam was awarded honorary degrees by the University of New Mexico (1965), the University of Pittsburgh (1978), and the University of Wisconsin (1978). Stanislaw Marcin Ulam died in Santa Fe, New Mexico, on May 13, 1984. He was seventy-five.



*Trinity atomic bomb test, Alamagordo, N.M., July 16, 1945*

## Scope and content

The Stanislaw Marcin Ulam Papers (1916-1984) contain diverse materials documenting the personal life and career of a creative mathematician and key figure in the technical development of America's nuclear weaponry. The collection documents nearly the entirety of Ulam's life, but the core of the collection reflects

the years after his arrival in the United States in 1935, and particularly after he began as a researcher at Los Alamos Scientific Laboratories in 1945. From 1935 on, Ulam was heavily engaged in publication, teaching, consulting, and traveling as a visiting lecturer at universities and scientific symposia, and most importantly, he was involved in the development of the atomic and hydrogen bombs.

The Ulam Papers constitute a rich resources for study of the early years of nuclear weapon development in the United States, and though it is relatively lacking in technical scientific detail, the webs of relationships.

Ulam's professional correspondence with fellow scientists as well as his original research materials are also noteworthy aspects of the papers.

The papers (75 boxes; 35.75 linear feet) are divided into fifteen series:

Series I.	Professional correspondence, 1932-1986	(33 boxes; 15.5 linear feet)
Series II.	Personal correspondence, 1936-1979	(1 box; 0.5 linear feet)
Series III.	Polish materials, 1935-1984	(1 box; 0.5 linear feet)
Series IV.	Subject files, ca.1945-1983	(3 boxes; 1.5 linear feet)
Series V.	Research notes, 1934-1983	(4 boxes; 2 linear feet)
Series VI.	Calendars and address books, 1934-1984	(4 boxes; 2 linear feet)
Series VII.	Talks and interviews, 1937-1984	(4 boxes; 2 linear feet)
Series VIII.	Unpublished works, 1932-1984	(3 boxes; 1.5 linear feet)
Series IX.	Published works, 1944?-1984	(9 boxes; 4.5 linear feet)
Series X.	Class notes, 1936-1981	(2 boxes; 1 linear foot)
Series XI.	Student notes and papers, ca.1938-1976	(1 box; 0.5 linear feet)
Series XII.	Miscellaneous, memorabilia, and newspapers, 1916-1983	(2 boxes; 1 linear foot)
Series XIII.	Photographs and film, 1930-1984	(1 box, 1 film; 0.5 linear feet)
Series XIV.	Audiotape recordings, ca.1955-1982	(1 box, 21 tapes; 0.5 linear feet)
Series XV.	Miscellaneous reprints, manuscripts, and journals, 1938-1986	(3 boxes; 1.5 linear feet)

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## Administrative information

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### Restrictions on use

None.

### Preferred citation

Cite as: Stanislaw Ulam Papers, American Philosophical Society.

### Provenance

The Ulam Papers were donated to the APS on December 4 1987 and January 1988 by Ulam's wife, Françoise (accession no. 1987-1928ms).

Additional letters and postcards, largely written by Stanislaw Ulam and his wife, Françoise, to John C.

Oxtoby were given to the Library by Jean Oxtoby (Mrs. John C.) in January, 1995 (1995-38ms). These items have been filed with the rest of the John C. Oxtoby correspondence in Series I of the Papers.

### Processing notes

Processed by Martin Levitt, Elaine M. McCluskey, and Timothy T. Wilson July, 1996 (Revised rsc 2002).

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## Additional information

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### Related material

The APS houses several collections that document the history of the development of the atomic bomb, including the papers of Henry DeWolf Smyth, E.U. Condon, and John A. Wheeler for the physics of A-bomb development, and Curt Stern and James V. Neel relating to the genetics.

### Separated material

Audiotapes have been removed for storage to the APS recordings library (rec. 151).

### Language(s) represented

English.

### Bibliography

Necia Grant Cooper, ed., *From Cardinals to Chaos: Reflection on the Life and Legacy of Stanislaw Ulam* (Cambridge, 1989), pp. 313-317, provides a complete bibliography of Ulam's work.

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## Added entries

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### Subjects

- Atomic bomb
- Bethe, Hans Albrecht, 1906-
- Chess
- Computers
- Harvard University
- Hydrogen bomb
- Institute for Advanced Study (Princeton, N.J.)
- Logic, Symbolic and mathematical
- Los Alamos National Laboratory
- Manhattan Project (U.S.)
- Mathematical physics
- Mathematics
- Mathematics--Study and teaching
- Number theory
- Physics
- Physics
- Poles--United States
- Princeton University
- Set theory
- Topology
- University of Colorado
- University of Wisconsin

## Contact information

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### Sponsor:

Support for processing the Ulam Papers was provided by a grant from the Andrew W. Mellon Foundation.



- World War, 1939-1945

## Contributors

- Banach, Stefan, 1892-1945
- Bellman, Richard Ernest, 1920-
- Birkhoff, Garrett, 1911-
- Borsuk, Karol
- Bradbury, Norris
- Erdős, Paul, 1913-
- Everett, C. J. (Cornelius Joseph), 1914-
- Fermi, Enrico, 1901-1954
- Feynman, Richard Phillips
- Frisch, Otto, 1904-
- Gamow, George, 1904-1968
- Gardner, Martin, 1914-
- Gödel, Kurt
- Kac, Mark
- Kelly, Paul
- Kistiakowsky, George B. (George Bogdan), 1900-
- Kuratowski, Kazimierz, 1896-
- Lomnicki, Zbigniew A.
- Mandelbrot, Benoit B.
- Mazur, Stanislaw
- Metropolis, N. (Nicholas), 1915-
- Mycielski, Jan, 1932
- Oppenheimer, J. Robert, 1904-1967
- Oxtoby, John C.
- Pasta, John
- Rabi, I. I. (Isidor Isaac), 1898-
- Rota, Gian-Carlo, 1932-
- Schrandt, Robert
- Seaborg, Glenn Theodore, 1912-
- Segrè, Emilio
- Sierpinski, Waclaw, 1882-1969
- Stein, Myron
- Stein, Paul
- Steinhaus, Hugo, 1887-1972
- Stone, Marshall H. (Marshall Harvey), 1903-
- Tarski, Alfred
- Teller, Edward, 1908-
- Ulam, Stanislaw M. (Stanislaw Marcin), 1909-1985
- von Karman, Theodore, 1881-1963
- von Neumann, John, 1903-1957
- Weisskopf, Victor Frederick, 1908-
- Zygmund, Antoni



## Genre terms

- Audiotapes
- Photographs

## Collection overview

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### Series I. Professional correspondence, 1932-1986

33 boxes; 15.5  
linear feet

Incoming and outgoing manuscript and typescript letters, carbons, telegrams, and postcards generated during Ulam's professional career. Series I is the largest series of the collection and is rather evenly distributed through the years. Space permitting, short papers, reprints, and (occasionally) photographs have been retained in the correspondent's file, if the papers is referred to in the correspondence.

Series I is arranged alphabetically by correspondent's name and chronologically within each file, with unidentified correspondence filed as "Unknown," arranged chronologically. The correspondence is primarily in English, though there is a significant portion in Polish, French, German and Russian; non-English language references are noted in the container listing. Most letters in foreign languages are addressed to Ulam; his replies are generally in English.

Among Ulam's correspondents are mathematicians, scientists, current and former students, officials of various organizations and institutions, historians, publishers, and admirers. The range of subjects is equally diverse, ranging from professional, technical discussions in mathematics and physics to chess, computers, publications, invitations to lecture, Ulam's early years in the U.S., Harvard University, University of Wisconsin, and University of Colorado, WWII, Poland and world events, work at Los Alamos, fan mail, and letters of recommendation by Ulam for students and colleagues.

The most significant portion of this series is comprised of Ulam's correspondence with mathematicians and scientists, including some very valuable correspondence with and about John von Neumann. Von Neumann's contributions to mathematics and computing figure prominently in Ulam's correspondence and writings (Series VIII and IX). As Ulam was in contact with a few generations of mathematicians in both the U.S. and Poland, his correspondence provides an interesting record of the evolution of mathematics in both countries. Ulam also corresponded with a number of American politicians throughout his career, including senators Clinton P. Anderson, Howard H. Baker, Jr., and Edmund S. Muskie. Researchers may find that some professional correspondence unexpectedly lacks scientific substance. This is most apparent in the correspondence between Ulam and certain famous colleagues, whose letters are valuable primarily for their signatures.

The correspondence relating to Los Alamos Scientific Laboratory is scattered throughout the series and is largely composed of administrative memoranda. Ulam's work at LASL constitutes another area of surprising weakness: in some cases, the name of a correspondent associated with the laboratory suggests that valuable technical information on the development of nuclear weapons is available in their file. Unfortunately, much of this kind of professional correspondence was classified at LASL and never left the site. What remains, however, does reflect the management of LASL, and is therefore of some interest.

### Series II. Personal correspondence, 1936-1979

1 box; 0.5  
linear feet

Letters, postcards, and telegrams to Ulam from various family members and friends from Poland and the United States. Manuscripts are arranged alphabetically by correspondent's name and chronologically within each file. The bulk of the material dates from 1936 to the beginning of World War II, while Ulam was teaching at Harvard University. A significant portion of this series is in Polish, and the subjects have not been determined.

The collective family correspondence (2 folders) is potentially of some biographical interest. While in many cases the writers have not been identified, it appears that Ulam's father, Jozef, is a regular participant in these group letters as they most often appear on his Lwów law office letterhead. Perhaps the most poignant English-language letter from Series II is one written by a cousin, Juliusz (Julek) Ulam, in March 16, 1945, informing Ulam that his immediate family, including father, sister, brother-in-law, and uncle "all fell from the hands of the Nazis." One of the most vivid features of the personal correspondence is surely the depiction of life in Poland before the outbreak of World War II.

**Series III. Polish materials, 1935-1984**

**1 box; 0.5  
linear feet**

Untranslated correspondence, early mathematical notes, and miscellaneous Polish newspaper articles dating from Ulam's first months at the Institute for Advanced Study in Princeton through the end of his life. Series III houses a significant portion of the Polish correspondence found throughout the collection, except for Polish letters with identified correspondents. These can be found in the alphabetical arrangement of Series I and II. Mathematical notes in this series include some of Ulam's early studies in mathematics, before he began working primarily in English. These original research documents are the most noteworthy aspects of this series. There are also a few notes in the hand of unidentified Polish colleagues. All notes of Series III remain undated, as do most of the Polish newspaper clippings.

**Series IV. Subject files, ca.1945-1983**

**3 boxes; 1.5  
linear feet**

Diverse materials dating from Ulam's initial involvements at LASL through his final years of life, arranged alphabetically by topic. While many of the files hold correspondence relating to specific subjects of interest to Ulam, there are various other materials, such as information booklets, scientific symposium agendas, proposals, and miscellaneous documents. Many of the files reflect Ulam's participation in learned and professional societies and events in the scientific community. Some of the larger subject files contain Ulam's invitations to lecture at universities and societies, National Science Foundation proposals submitted to Ulam for review, and letters of recommendation for graduate students. Among the files of particular interest are several containing information on LASL. This is noted on the container listing.

**Series V. Research notes, 1934-1983**

**4 boxes; 2  
linear feet**

Ulam's original, unclassified research papers divided into two formats: notebooks and note pads (1934-1983) and unbound loose notes (1937-1983). Both groups are arranged chronologically, reflecting the major movements of Ulam's career from research notes made in Poland, through his positions at American universities and LASL. The notes relate to Ulam's personal research interests, rather than notes prepared for class lectures (which are housed separately in Series X). Forty notebooks and note pads as well as twenty-three folders of loose notes, graphs, and computer printouts on paper provide an overview of the research and mathematical problems that were the focus of Ulam's work throughout his lifetime. Much of the scientific and mathematical notation is unlabeled or undated.

**Series VI. Calendars and address books, 1934-1984**

**4 boxes; 2  
linear feet**

Volumes that were maintained by Ulam, spanning a significant portion of his lifetime. Calendars are most valuable as detailed records of Ulam's daily appointments, correspondence, and may include short mathematical notes. They appear in a variety of formats, including pocket, desk, and wall calendars, with pocket calendars often divided into four volumes per year. Some calendars are incomplete, due to the fact that Ulam removed pages to write notes and reminders, and in many cases, entire volumes from a year of pocket calendars are missing. Twelve address books are filed at the end of the series and mainly contain entries for fellow mathematicians and scientists. All volumes are arranged chronologically when the date has been ascertained, the remainder are grouped at the end of the series.

**Series VII. Talks and interviews, 1937-1984**

**4 boxes; 2  
linear feet**

Outlines, notes, diagrams, abstracts, announcements, autograph manuscript and typescript drafts, and final transcripts of Ulam's extensive talks and interviews given during his life. Most of the talks represented in this series date from the middle to the end of Ulam's career (1950s-1980s), with the bulk falling during the 1960s and 1970s, with outlines of talks, discussions, and seminars predominating. Giving these "talks," as Ulam referred to them, came to be one of the most time-consuming activities in the scientific community during the latter part of his career. The talks and interviews of this series are arranged alphabetically by the title provided by Ulam. In many cases, the materials are identified only with a city as title; consequently, a number of the talks are filed alphabetically by the city in which they were given. Unidentified talks are located in four folders labeled "miscellaneous notes/outlines."

Transcripts of audio-taped interviews with Ulam and colleagues are also housed in Series VII. Transcripts are interfiled alphabetically by title with other materials in the series, except when the name of the interviewer (usually an author preparing an article) has been identified. Such transcripts are located under the interviewer's name. Among the most noteworthy "interviews" is a transcript of a conversation between Ulam and long-time friend and collaborator, Gian-Carlo Rota. This transcript, in two parts, documents fifteen anecdotal conversations covering a wide range of topics, including thoughts on mathematics, philosophy, and John von Neumann.

**Series VIII. Unpublished works, 1932-1984**

**3 boxes; 1.5  
linear feet**

Notes, graphs, data charts, outlines, abstracts, and autograph and typescript texts generated by Ulam during his many years of mathematical research. Writings are arranged alphabetically by title. This series represents the bulk of Ulam's research which was not published in its present form, but retained as a record of his works in progress. The earliest material of the series is Ulam's 1932 master's thesis for the Lwów Polytechnic Institute in Poland. The original manuscript of this work in Polish, entitled "O operacje produktu," was translated into English in 1973 as "On the operation of product." Both versions of the thesis are filed here.

Box 2 consists entirely of notes, miscellaneous research material, and drafts for Ulam's second volume to the 1960 edition of *A Collection of Mathematical Problems*. Because Ulam passed away while this companion piece was in progress, the drafts were never published in the form intended. An index card file from Series VIII holding "problems for Problem Book II" is stored at the end of the collection.

**Series IX. Published works, 1944?-1984**

**9 boxes; 4.5  
linear feet**

Autograph and typescript drafts, notes, outlines and printers' proofs. Relevant correspondence having to do with some items has been kept in this series when appropriate. Some drafts have marginalia and some have been edited by others; these notes appear in the container listing. The earliest item in this series is from 1944[?] on the theory of multiplicative processes. Of note in the series is an autograph outline on the possibility of initiating a thermonuclear reaction in deuterium. Also of interest are the notes on colleagues from *Adventures of a Mathematician*, some of which remained unpublished, drafts of the *Scottish Book*, and John von Neumann's obituary. The most recent item is a draft of *Science, Computers and People* which was edited by Gian-Carlo Rota in 1984.

**Series X. Class notes, 1936-1981**

**2 boxes; 1  
linear foot**

Notes prepared and given by Ulam as a university professor at Harvard, the University of Wisconsin, and elsewhere. Class notes take the form of lecture notebooks and unbound loose notes, course and seminar outlines, problem sets, and exams. The series is arranged chronologically, with the physical description (i.e. "notebook") and subject (if known) of the materials as folder headings. Most class notebooks were created in the early part of Ulam's teaching career (1936-1946). This series is of interest mainly as a record of the areas in mathematics Ulam taught as a young professor.

**Series XI. Student notes and papers, ca.1938-1976**

**1 box; 0.5  
linear feet**

Notebooks and papers generated by students in Ulam's university classes. Files are arranged alphabetically by student's name. Most students of this series appear to have attended Ulam's classes in mathematics at the University of Wisconsin.

**Series XII. Miscellaneous, memorabilia, and newspapers, 1916-1983**

**2 boxes; 1  
linear foot**

A variety of materials collected by Ulam which pertain to a wide range of his lifelong interests. This very diverse series is arranged alphabetically by folder heading and contains such personal memorabilia as Ulam's collection of business and calling cards, his Polish passport, and his petition for naturalization in the U.S. Many files reflect the major concerns of Ulam's career, including those relating to LASL, the atomic bomb, the H-bomb controversy (between Teller and Oppenheimer), and his visiting lectures. Newspapers documenting important events in Ulam's life are included in this series. The file (labeled "newspapers") is arranged chronologically and contains substantial contemporary information of interest to Ulam. Other newspapers are housed in other "memorabilia" files, which Ulam arranged by topic during his lifetime. For example, the August 6, 1945 issue of the Santa Fe New Mexican reporting the dropping of the atomic bomb on Hiroshima is filed with miscellaneous memorabilia dating 1945-1948.

Life at Los Alamos during and after World War II is documented by Series XII. Community newsletters, family tour guide booklets, an early map of Project "Y," and war ration booklets used on the site are some of the interesting materials from the series which reflect everyday life at Los Alamos. The earliest item from the entire Ulam collection is found within this series; a 1916 street scene of Ulam's hometown, Lwów, Poland, has been preserved within his collection of postcards.

**Series XIII. Photographs and film, 1930-1984**

**1 box, 1 film;  
0.5 linear feet**

Photographs and negatives, a scrapbook, and three films. The photographs of Ulam, family members, colleagues, places, and events are arranged alphabetically by subject (by last name if the subjects are people) and within each file chronologically. Most of these items are in black and white, and are evenly divided in sizes from 3x5" to 8x10", with a few very small (1x1") or larger (10x12") items. The earliest photograph is of the Lwów Mathematical Conference held in 1930; the latest is of Ulam's 75th birthday party in 1984. A number of scientists are depicted in this series, including Banach, Bethe, Borsuk, Erdős, Fermi, Gamow, Kac, von Karman, and von Neumann. Most of the photographs of Ulam are portraits, some formal, other informal. There is one picture of a very young Ulam (1932) in what appears to be swimming attire. The photographs in the scrapbook are arranged as received, and are in neither chronological nor alphabetical order. The dates covered range from a 1947 photograph of a collage involving a portrait of Ulam created for George Gamow (photographed by Jim Lilienthal) to a number of photographs from 1964 which depict the Dahlgren lecture, the Weizmann dinner, and a *Parade Magazine* article. The scrapbook includes several interesting images, including an aerial shot of Los Alamos, "The Lodge" at Los Alamos, Laura [Fermi?], von Karman and Bradbury, and Claire and Françoise Ulam.

There are three 16mm motion picture films, the first of which is titled "Measure and set theory," with a running time of fifty minutes. In this lecture, filmed in conjunction with the Mathematical Association of America in 1966, Ulam outlines the basic principles of measure and set theory including additive or aggregate measures. The other films are "32 stars with  $r=0.4$ " (4-inch reel, dated May 25, 1967, and an unidentified film (3-inch reel) which may be a continuation of the "32 stars" film. "Measure and set theory" is stored at the end of the collection.

**Series XIV. Audiotape recordings, ca.1955-1982****1 box, 21  
tapes; 0.5  
linear feet**

Audiotapes have been removed from the main collection for storage, and have been assigned call no. Rec. 151. Recordings are primarily of lectures and interviews. See the container listing for further information.

This audio collection is comprised of an eclectic group of audio formats. There are four (4) 7" reel-to-reel tapes, four (4) 5" reel-to-reel tapes, three (3) 4" reel-to-reel tapes, one (1) 3" reel-to-reel tape (lacks box), and six (6) cassettes. In addition, there are three (3) unboxed 3 3/8" diameter reels. This last group is unidentified, but may be computer data stored on magnetic tape. As none of the tapes were played at the time the collection was processed, and as box/reel labels were often incomplete or lacking, no arrangement has been imposed on the tapes at this time. All reel-to-reel tape is 1/4". One 5" reel (designated "e") is stored in a 7" box.

**Series XV. Miscellaneous reprints, manuscripts, and journals,  
1938-1986****3 boxes; 1.5  
linear feet**

Arranged alphabetically by author. Several folders are filed by journal title when the entire issue is of interest or by title of article when the author is unknown. Most of the materials of this series are reprints, photocopies, typescripts, or autograph manuscripts of scientific papers and reviews prepared by Ulam's colleagues. Notes, data, and abstracts of these papers are filed here as well. It should be noted that Ulam's reprints of journal articles are located in this series, not with the manuscripts of his other published works in Series IX. Some journals containing an article of scientific interest to Ulam, usually dealing with nuclear bombs or LASL, have been saved intact. Rather than removing the specific article, these journals remain as a complete issue and are filed under the author's name. In cases where the entire journal issue appears to have been of interest to Ulam, the journal has been filed by title.

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**Collection inventory**


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**Series I. Professional correspondence, 1932-1986****33 boxes; 15.5  
linear feet**

Abbott, Lois Ann	1971-1977	Box 1
Abbott, Richard L.	1975	Box 1
Abelson, Philip H.	1973	Box 1
Carnegie Inst. of Washington		
Ablowitz, Mark J.	1980-1982	Box 1
Abraham, Ralph	1977	Box 1
Academic Press	1965-1970	Box 1
Adams, Arthur S.	1962	Box 1
Adams, C. R.	1936	Box 1
Addison, John W., Jr.	1957	Box 1
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Addison-Wesley Publishing, Co.	[1973]-1978	Box 1

Heinlein, Lore Herbert, Pembroke		
Adler, [?]	1944	Box 1
Adomian, G[eorge]	1979	Box 1
Agins, Barnett R.	1970	Box 1
interdisciplinary research in math-physics grant		
Agnew, Harold Richard L. Garwin speech	1971-1983	Box 1
Agnew, John	1970	Box 1
Agnew, Ralph P.	1950-1952; n.d.	Box 1
Morse, Anthony P.		
Ahlfors, Lars V.	1951	Box 1
Aiserman, Mark	1966	Box 1
Akemann, Charles A.	1978	Box 1
Akl, D.	1977	Box 1
Aladyev, V.	1972	Box 1
Alavi, Yousef	1972	Box 1
Albers, Robert J.	1971	Box 1
Albertson, R. D.	1982	Box 1
Al-Dhahir, M. W.	1980	Box 1
Aldrich, W. Tyler, Jr. escorts' responsibilities at Los Alamos	1959	Box 1
Alexander, Gary	1964-1965	Box 1
Alexanderson, G. L.	1983	Box 1
Alexandroff, Paul In French	1935	Box 1
Allen, Donald R. Prime numbers	1969	Box 1
Allen, Jerry Harold Liebowitz	1966	Box 1
Allen, John Ed	1980-1981	Box 1
Allen, Peter S.	1969	Box 1
Allen, Phillip M. bio-mathematics	1967	Box 1
Allendoerfer, Carl B.	1952	Box 1
Allred, John C.	1958-1977	Box 1
Alpern, Steve homeomorphisms	1973-1982	Box 1
Altman, M.	1975	Box 1
American Academy of Arts and Sciences Election	1957	Box 1
Billings, Bruce H. Burnes, Ralph W.		
American Academy for the Advancement of Science	1976	Box 1



Botts, Truman  
 Carey, William D.  
 Hlavaty, Julius H.  
 Knuth, Donald E.  
 Levin, Simon A.  
 Sterling, Daniel J.

American Council of Polish Cultural Clubs	1967	Box 1
Turowski, Florence		
American Mathematical Monthly, The	1959-1971	Box 1
Andree, Richard V. Berge, Claude Drasin, David		
American Mathematical Society	1957-1977	Box 1
Colvin, B. H. Durst, Lincoln Green, John W. Lin, C. C. Pitcher, Everett Reynolds, Margaret Swanson, Ellen E. Walker, Gordon L. committee work		
American Scholar, The	1977	Box 1
Jones, Jean von Neumann article		
Amouyal, A.	1965-1966	Box 1
Anderson, Clinton P.		Box 1
Folder #1	1955-1964	Folder 1
H-bomb development, nuclear propulsion, Kennedy visit, moon observatory		
Folder #2	1965-1971	Folder 2
ROVER, ROVER		
Boyer, Keith	testing	Box 1
Folder #3	n.d.	Box 1
Shepley & Blair's Hydrogen Bomb		
Anderson, Ken	1972	Box 1
Anderson, P. W.	1967	Box 1
Anderson, R. Christian	1970-1979	Box 1
Anderson, R. D.	1957-1959	Box 1
homeomorphisms; Scottish Book		
Andersson, Rolf	1973	Box 1
Ankeny, Barbara H.	1975-1976	Box 1
M.I.T. Press		
Annual Review of Biophysics and Bioengineering	1967-1971	Box 1
Handley, Jacqueline Morales, Manuel West, Charles A.		
Archer, E. James	1965-1966	Box 1
Argo, Harold V.		Box 1
- See Ser.I, Metropolis, Nicholas		
Armstrong, J. L.	1958	Box 1
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Arnold, J. R.	1959	Box 1
Arnowitz, Richard		Box 1
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Arsove, Maynard G	1959	Box 1
Artin, E.	1956; n.d.	Box 1
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Artin, Natascha	n.d.	Box 1
Artur, Csetényi	1973	Box 1
Ascher, Edgar	1972	Box 1
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Encyclopedia Britannica Mathematics & Logic article		
Asimov, Daniel	1967	Box 1
Askey, Dick	1976	Box 1
Astin, Allen V.	1974-1975	Box 1
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Augenstein, Bruno W.	1963-1983	Box 1
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Aulicino, John V.	1976	Box 1
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Avula, Xavier J. R.	1981-1982	Box 1
Ayres, W. L.	1945	Box 1
Baade, W.	1949	Box 2
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Bacal, Jacob	1976	Box 2
Baclawski, Kenneth	1973	Box 2
Baer, Reinhold	1948-1971	Box 2
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Bagby, Philip	1940?-1951	Box 2
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Baggett, Larry (Lawrence)	1967	Box 2
Bailey, Daniel E.	1966	Box 2
SMU calendar -See also Ser.I, Manning, Thurston E.		
Bailey, Herbert S., Jr.	1955-1956	Box 2
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Baird, Bridget	1971-1979	Box 2
Baker, Howard H., Jr.	1967	Box 2
Senate committee on tech. & human environment For originals, see Ser.I, Muskie, Edmund S.		
Baker, William O.	1965	Box 2
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Bakowski, [Alois]	n.d.	Box 2
In Polish		
Baldrige, Jack	n.d.	Box 2
Bales, Verna	1965	Box 2
Ball, B. J.	1966	Box 2
New Scottish Book		
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Ulam, Alex[ander]		
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Ballwag, R. A.	1962-1963	Box 2
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Barell, John F.	1976	Box 2
Barner, Martin	1975	Box 2
Barnes, J. C.	1961-1963	Box 2
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Barres, Peter Marshall	1981	Box 2
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Barrows, Robert Guy	1976	Box 2
Adventures film		
Bartholomay, Anthony	1960-1972	Box 2
Bartlett, A. A.	1978-1983	Box 2
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Bartoszynski, Robert		Box 2
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Barut, Asim	1966-1983;n.d.	Box 2
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Bass, Robert W.	1957	Box 2
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Bateman, P. T.	1965	Box 2
integers divisible by 3		
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Batty, Peter	1974-1975	Box 2
Film on H-bomb		
Baumgartner, James E.	1969	Box 2
Bauer, F. W.	1977	Box 2
Bazley, Norman W.	1971-1972; n.d.	Box 2
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Beadles, [Don]	1977	Box 2

Bebernes, Jerrold	1967-1977	Box 2
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Beck, J. I. (Mrs.)	1968	Box 2
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Bellman, Richard		Box 2
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Birkhoff, Garrett		
Cairns, S. S.		
Lefschetz, S.		
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Deza, M. Las Vergnas, M. Rosenstiehl, P. See American Mathematical Monthly		
Berger, Agnes	1976	Box 3
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Bergman, Stefan	1955-1962	Box 3
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Betts, A. W. Los Alamos housing, forms for employment, requests and badges	1946-1947	Box 3
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Beyer, William A. visual hulls, difference equations See Smith, Temple F.	1955-1975; n.d.	Box 3
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Folder #2 Hydrodynamics, jet calculations, Coll. of Math. Problems, Lebesgue measure Pasta, John	1953-1956	Box 3
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 Burington, Richard S.  
 Green, John W.  
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Block, Henry W.	1970	Box 3
Bloom, David M.	1969	Box 3
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Boba, Antonio	1959	Box 4
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 Critchfield, Charles L.  
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Special Asst. to the President for National Security		
Burbidge, Geoffrey	1963-1973	Box 4
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Carlson, Tim	1979	Box 5
Carr, John W., III	1952	Box 5
Carrier, George F.	1967; 1971	Box 5
Carson, Ward W.	n.d.	Box 5
Carter, Ciel M.	1969	Box 5
Carter, David L.	1961	Box 5
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Carter, David S.	1956-1975	Box 5
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Carter, William J.	1976; 1980	Box 5
Case, James H.	1967	Box 5
Computers		
Case, Kenneth M.	1979	Box 5
Cashwell, Edmond D.	1971; 1980	Box 5
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Cater, Steven C.	1977	Box 5
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Cavender, James A.	1975-1979; n.d.	Box 5
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Canzer, Doug	1978	Box 5
Chaitlin, G. L.	1977	Box 5
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Champlain, W. P.	1953	Box 5
Chan, Arthur C. H.	1970	Box 5
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Chapin, Leverett A.	1976	Box 5
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Charney, Jule	1957-1958	Box 5
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Charpie, Robert A.	1961	Box 5
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Cheatham, Thomas E., Jr.	1954	Box 5
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Christiansen, Peter L.	1982	Box 5
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Cleaver, Frank L.	1974	Box 6
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National Science Foundation		
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Cohen, Michael	1963; 1976	Box 6
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Coit, Catherine	1970-1982; n.d.	Box 6
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Collins, Larry	1980	Box 6
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Combinatorial Theory, Journal of	1968-1972	Box 6
Star, Z. Younger, D.		
Comer, Steve	1977	Box 6
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4/2/42 refers to JVN's "war work;" 11/9/43 describes "the project" JVN has asked SMU to join

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Kalman, R. E.		
Whittaker, James V.	1959	Box 30
Whittaker, P. N.	1957	Box 30
Whittington, Stuart Gordon	1967	Box 30
Wiadomosci	1978	Box 30
Widmer, Wilbur J.	1981-1982	Box 30
Wielkoszewski, W.	1973	Box 30
Some in Polish		
Wiener, Joseph	1982	Box 30
Wiesner, Jerome B.	1961-1971; n.d.	Box 30
ROVER & ORION		
See Hill, Albert G.		
Wiggin, Blanton C.	1983	Box 30
Number series		
Wigner, Eugene P.	1957-1978	Box 30
Reactor symp.		
See Birkhoff, Garrett		
Wilcox, Ralph M.	1970	Box 30
Wild, John M.	1964	Box 30
ORION		
Wilder, R. L.	1967	Box 30
Wiley, Norbet	1981	Box 30
Gödel		
Wiley-Interscience	1970-1978	Box 30
Williams, John D.	1949-1957	Box 30
RAND;JVN		
Williams, Larry	1966	Box 30
SMU's set theory course		
Williams, Lloyd B.	1958-1959	Box 30
Williams, Stan	1982	Box 30
Wilson, E. Bright	1949	Box 30
Wilson, J. S.	1969	Box 30
Wilson, Paul A.	1958	Box 30
Wilson, R. Lynn	1972-1973	Box 30
LASL consultant agreements		
Wing, G. Milton	1973-1978	Box 30

Wing, Nina (Mrs. G. Milton)	1969	Box 30
Winstead, Warren J.	1966-1967	Box 30
Wirszup, Izaak	1980	Box 30
Wirth, Tim	1979	Box 30
Wishart, Arthur W.	1966-1968;n.d.	Box 30
Wisner, Bob	1972	Box 30
Wisniewski, W. L.	1957	Box 30
Witten, Edward	1981	Box 30
Wlodarski, J.	1971	Box 30
Wohlberg, Margaret	1975	Box 30
Wojcik, Richard R.	1975	Box 30
Wolf, Katie R.	1944	Box 30
Wolf, Robert A.	1961	Box 30
General Atomic; ORION		
Wolfe, Hugh C.	1961	Box 30
SANE; Test Ban Treaty		
Wolfe, Philip	1955	Box 30
Games		
Wolfram, Stephen		Box 30
See Farmer, Doayne		
Wolkowisky, Jay	1970-1974	Box 30
Worlton, Jack	1977	Box 30
Wright, Fred B.	1976	Box 30
Wrubel, Marshal H.	1962	Box 30
Wszelaki, Jan	1964	Box 30
Some in Polish		
Wunderlich, M. C.		Box 30
Folder #1	1962-1969	Box 30
Folder #2	n.d.	Box 30
Hilbert's 10th problem		
Wyden, Peter	1983	Box 30
Wydro, Jan	1983	Box 30
Wyman, Jeffries	1968-1969	Box 30
Mycielski, Jan		
Wynne, Allen	1976	Box 30
Wysocki, Theodore	1969	Box 30
Wyss, Walter	1981	Box 30
Yamasaki, Shin'inchiro	1952	Box 31
Yang, C. T.	1954	Box 31
Yang, Eileen	1980	Box 31
Yankelevich, E.	1981	Box 31
Sakharov		
Yanoff, Michael	1980	Box 31
Yarbrough, Edward	1980	Box 31
Spirals, primes		
Yevick, Miriam L.	1971	Box 31
York, Herbert F.	1958-1976	Box 31
Nuclear history		

Young, David M. Computers See Garabedian, Paul R.	1959; 1961	Box 31
Young, John V. re: H-bomb invention Shearer, Lloyd	1963	Box 31
Youngs, J. W. T.	1950	Box 31
Yourgrau, Wolfgang	1967-1968	Box 31
Zabusky, Charlotte	1975	Box 31
Zabusky, Norman		Box 31
Folder #1 International School of Nonlinear Mathematics and Physics Kruskal, Martin	1959-1965	Box 31
Folder #2 Kruskal, Martin	1966-1970	Box 31
Folder #3	1971-1980	Box 31
Zacharias, Jerrold R.	1966-1967; 1982	Box 31
Zadina, Edward J.	1973	Box 31
Zadworski, Zenon	1974	Box 31
Zaharia, S. D.	1981	Box 31
Zaks, Joseph	1971	Box 31
Zaleski, Stephane	1982-1983	Box 31
Some in French		
Zawacki, Edmund	1964; 1978; 1980	Box 31
Zawadzka, Regina J.	1938	Box 31
Zelen, Marvin	1983	Box 31
Zener, C.	1961	Box 31
Ziemba, Walter J.	1971	Box 31
Zietlow, Paul	1982	Box 31
Zinman, Walter G.	1971; 1977	Box 31
Zinn, John	1967	Box 31
Zippin, Leo	1959	Box 31
Zolzistaw[?], A[lex]	dates; n.d.	Box 31
Zotcinski, Edward	1977	Box 31
Zuckerandl, Emile	1979	Box 31
Zygmund, Antoni Some in Polish; 7/11/45 letter re: deaths during WWII See Engelking, Ryszard	1940-1983	Box 31
<b>Series II. Personal correspondence, 1936-1979</b>	<b>1 box; 0.5 linear feet</b>	
Auerbach, Jozef Some in German	1939	Box 1
Auerbach, Klara Aunt See Auerbach, Mike	1938	Box 1
Auerbach, Mike	1938	Box 1

Cousin; note from Klara Auerbach in Polish; poem		
Brenner, Maksymiljan	1938	Box 1
In Polish		
Brett, Lily	1947	Box 1
Bussgang, Julian J.	1949-1955	Box 1
Collective Family Correspondence		Box 1
Folder #1	1936-1937	Box 1
In Polish; several family		
Folder #2	1938-1949; n.d.	Box 1
Correspondents on each letter		
Diamant, L.	1940	Box 1
Goldberg, Izydor	1947	Box 1
Uncle		
Goldberg, Lusia	1946-1959; n.d.	Box 1
Aunt; Some in Polish		
Gruss, Jozef	1940; n.d.	Box 1
In Polish		
Hofstadter, Douglas R.	1977	Box 1
Photocopy of Polish address book mentioning relatives		
Menkes, Zygmund	1936-1979; n.d.	Box 1
Mainly in Polish		
Plesch, Leonie	1947	Box 1
In Polish		
Richet, Tosia	n.d.	Box 1
In Polish		
Thon, Jerry	1939	Box 1
In Polish		
Ulam, Adam		Box 1
Brother; Some in Polish		
Folder #1	1939-1977	Box 1
Folders #2-3	n.d.	Box 1
Ulam, Alex[ander]		Box 1
-See Ser. I, Ballen, Samuel B.		
Ulam, Andrej	1936-1948;n.d.	Box 1
Some in Polish		
Ulam, Françoise	1944; 1973; 1984; 1986	Box 1
-See also Ser. I, Budrewicz, [?]		
-See also Ser. I, Gardner, Martin		
-See also Ser. I, von Neumann, John		
Ulam, Jozef	1936-1938	Box 1
Father; in Polish		
Ulam, Juliusz (Julek)		Box 1
Cousin; Some in Polish		
Folder #1	1939-1949	Box 1
16.III.45 gives news that immediate family killed by Nazis during WWII		

Folder #2	1953-1979	Box 1
Ulam, Marysia	1936-1937	Box 1
Ulam, Szymon	1936-1948	Box 1
Unknown		Box 1
Folder #1	1936-1940	Box 1
Some in Polish		
Folder #2	1940-1949; n.d.	Box 1
Some in Polish		
<b>Series III. Polish materials, 1935-1984</b>		<b>1 box; 0.5 linear feet</b>
Correspondence		Box 1
Folder #1	1935-1939	Box 1
In Polish		
Folder #2	1940-1949	Box 1
In Polish		
Folder #3	1950-1964	Box 1
In Polish		
Folder #4	1965-1971	Box 1
In Polish		
Folder #5	1972-1975	Box 1
In Polish		
Folder #6	1976-1977	Box 1
In Polish		
Folder #7	1978-1979	Box 1
In Polish		
Folder #8	1980-1981	Box 1
In Polish		
Folder #9	1982-1983	Box 1
In Polish		
Folder #10	1984	Box 1
In Polish		
Folder #11	n.d.	Box 1
In Polish		
Mathematical Notes		Box 1
2 Folders	n.d.	Box 1
In Polish		
Newspaper Articles	1981; n.d.	Box 1
In Polish		
<b>Series IV. Subject files, ca.1945-1983</b>		<b>3 boxes; 1.5 linear feet</b>
[Administration of graduate students]	1960-1968;n.d.	Box 1
Air Force Space Study Committee	1960-1961	Box 1
Projects ORION and ROVER		
American Mathematical Society	1946-1958	Box 1

misc.		
American Mathematical Society. Gibbs lecture committee	1957-1958	Box 1
American Mathematical Society.	1956-1960	Box 1
Correspondence Mathematical Reviews		
American Mathematical Society. Correspondence Mathematical Surveys Editorial Committee	1959-1961;n.d.	Box 1
American Mathematical Society.	1960-1961	Box 1
Symposium on Mathematical Problems in the Biological Sciences		
Atomic Energy Commission Diagram organization	1 Jan. 1958	Box 1
Autobiographical information		Box 1
Folder #1 Vita	1980-1982;n.d.	Box 1
Folder #2 Essays	1966-1978	Box 1
Folder #3 Publication lists	1984-1985;n.d.	Box 1
Crackpots Corresp. and papers		Box 1
Folder #1	1959	Box 1
Folder #2	1959-1969	Box 1
Folder #3	1970-1971	Box 1
Folder #4	1971-1974; n.d.	Box 1
Employment, contracts of Consultant agreements; LASL Project Y	1945-1971	Box 1
Employment, offers of	1936-1955	Box 1
Grusin, Claire Ulam Vita	n.d.	Box 1
H-Bomb Conference, Princeton	21-23 June 1982	Box 1
See also Series XV: Bundy, McGeorge and Smyth, H.D.		
Harvard Symposium on Digital Abstract: Computers and Their Applications	3-6 April 1961	Box 1
Hycon Manufacturing Company Patents	1960-1962	Box 1
International Congress of Mathematicians, Warsaw Meeting	11-19 Aug. 1982	Box 1
Invitations to give talks		Box 1
Folder #1	1956-1967	Box 1
Folder #2	1968	Box 1
Folder #3	1968	Box 1
Folder #4	1969	Box 1
Folder #5	1970	Box 1
Folder #6	1970	Box 1
Folder #7	1971-1972	Box 1



Folder #8	1973	Box 2
Folder #9	1974; n.d.	Box 2
Jurzykowki Foundation, Inc.		Box 2
Folder #1	1963-1974	Box 2
Some in Polish		
Folder #2	1975-1976	Box 2
Some in Polish		
Folder #3	1977-1978	Box 2
Some in Polish		
Folder #4	1979	Box 2
Some in Polish		
Folder #5	1980-1981	Box 2
Some in Polish		
Folder #6	1982-1983;n.d.	Box 2
Some in Polish		
Los Alamos Scientific Laboratory	1946-1949;n.d.	Box 2
Misc. memos; diagrams of personnel organization		
Los Alamos Scientific Laboratory. Laboratory Policy Committee	1960-1961	Box 2
Minutes, outlines, summaries of research		
Los Alamos Scientific Laboratory. Unclassified reports		Box 2
Folder #1	1 Jan. 1958	Box 2
Folder #2	29 Jan. 1958	Box 2
Folder #3	12 Feb. 1958	Box 2
Mathematical Association of America. The American Mathematical Monthly	1959-1960	Box 2
Mathematical Association of America. Visiting lecturer	1959	Box 2
Mathematical Profiles Project		Box 2
Folder #1	1957	Box 2
Folder #2	1958	Box 2
Folder #3	1958	Box 2
National Academy of Sciences		Box 2
Folder #1	1966-1967	Box 2
minutes, by-laws, constitution		
Folder #2	1966-1982?	Box 2
nomination, program, biographical info.		
National Academy of Sciences, election to	1966	Box 2

Congratulatory correspondence

Abelson, Philip H.  
 Baker, Bill  
 Bing, R. H.  
 Brauer, Richard  
 Breit, Gregory  
 Brickwidde, F. G.  
 Burbidge, Geoffrey  
 Courant, R.  
 Dominick, Peter H.  
 Floberg, John F.  
 Gamow, Mr. and Mrs. Igor  
 Goldhaber, Maurice and Trude  
 Hornig, Donald F.  
 Humphrey, Hubert H.  
 Kerr, Clark  
 Kerst, Donald W.  
 Knous, Robert L.  
 Kolodner, I. I.  
 Kuchel, Thomas H.  
 Love, John A.  
 Neyman, Jerzy  
 Puck, Ted  
 Ramey, James T.  
 Richtmyer, Jane  
 Rinehart, R. F.  
 Schmidt, Eric W.  
 Seaborg, Glenn T.  
 Steinhaus, Hugo  
 Tarski, Alfred  
 Taub, Abe  
 Todd, John  
 Tuve, Merle A.  
 Waddington, C. H.  
 Walker, Gordon L.  
 Wallace, Alexander Doniphan  
 Walsh, J. L.  
 Wheeler, John A.  
 Wilder, R. L.

National Academy of Sciences. National Research Council	1956-1959	Box 2
National Science Foundation Proposals		Box 2
Folder #1	1956	Box 2
Folder #2	1956	Box 2
Folder #3	1956	Box 3
Folder #4	1957-1958	Box 3
Folder #5	1958	Box 3
Folder #6	1959	Box 3
Folder #7	1960-1961	Box 3
Folder #8	1972-1973;n.d.	Box 3
See also Series VIII: Bednarck, A. R. and S. M. Ulam		Box 3
NOBSKA, Project	1956	Box 3
Nuclear Reactor Theory, Symposium on	1958-1959	Box 3
ORION project patent	1960	Box 3

British

Personnel questionnaires Johns Hopkins University	[1950?]-1952	Box 3
Press releases, War Department. Atomic Bomb Project	[1945?]	Box 3
Proposals Misc.	1960	Box 3
Recommendations, letters of Graduate students	1947-1981	Box 3
Folder #1 A-D		Box 3
Folder #2 E-I		Box 3
Folder #3 J-N		Box 3
Folder #4 O-Z		Box 3
Test Ban Treaty	1963-1965;n.d.	Box 3
See also Series I: Anderson, Clinton P. and Mechem, E. L.		
Vietnam, A Statement on U.S. Policy in Weizmann Institute of Science	1968	Box 3
Folder #1	1960-1964	Box 3
Folder #2	1965-1974	Box 3
Folder #3	1975-1978	Box 3
Folder #4	1979-1980	Box 3
Folder #5	1981-1983	Box 3

#### Series V. Research notes, 1934-1983

4 boxes; 2 linear feet

Research notebook		Box 1
Folder #1 Poland; in Polish	1934	Box 1
Folder #2 Poland/Princeton? In Polish	1935	Box 1
Folder #3 Princeton/Harvard? In Polish	1936-1937	Box 1
Folder #4 Harvard	1938	Box 1
Folder #5 University of Wisconsin	ca. 1939-1941	Box 1
Folder #6 Harvard	1940	Box 1
Folder #7 LASL	ca. 1944	Box 1
Folder #8 USC/LASL?	1946	Box 1
Folder #9 LASL	1946-1948	Box 2
Folder #10 LASL	1947-1948	Box 2
Folder #11 Harvard seminar on problems	1951	Box 2
Folder #12	1951-1983	Box 2

Harvard/LASL		
Folder #13	1966-1980	Box 2
LASL		
Folder #14	1969-1970	Box 2
University of Colorado-problems and remarks in physics		
Folder #15	1977-1983	Box 2
LASL		
Folder #16	1977-1983	Box 2
University of Florida		
Folder #17	1979-1981	Box 2
LASL		
Folder #18	1981-1982	Box 2
LASL		
Folder #19	1981-1983	Box 3
Folder #20	1982-1983	Box 3
Folders #21-37	n.d.	Box 3
Misc.		
Folders #38	n.d.	Box 3
3 incomplete notepads		
Research notes (unbound)		Box 4
Folder #1	1937-1963	Box 4
Misc.; some in Polish		
Folder #2	1973-1974	Box 4
See oversize Series V		
Folder #3	1977-1983	Box 4
Folder #4	n.d.	Box 4
Pattern recognition		
See oversize Series V		
Schrandt, Robert G.		
Folders #5-22	n.d.	Box 4
Misc.		
Folder #23	n.d.	Box 4
All oversize		
See oversize Series V		
<b>Series VI. Calendars and address books, 1934-1984</b>	<b>4 boxes; 2 linear feet</b>	
Calendar		Box 1
Folder #1	1934-1935	Box 1
From Harvard; some in Polish		
Folder #2	1942	Box 1
From University of Wisconsin		
Folder #3	1945	Box 1
From LASL		
Folder #4	1946	Box 1
From USC and LASL		
Folder #5	1947	Box 1
From LASL		

Folder #6	3 Jan.-19 Mar. 1947	Box 1
Loose pages of desk calendar		
Folder #7	1947-1955	Box 1
Incomplete; loose pages from LASL desk calendar		
Folder #8	1948	Box 1
From LASL; in 4 parts		
Folder #9	1949	Box 1
In 4 parts		
Folder #10	1950	Box 1
From LASL; in 4 parts		
Folder #11	1951	Box 1
Incomplete in 3 of 4 parts		
Folder #12	[1951,1952?]	Box 1
From LASL		
Folder #13	1952	Box 1
From LASL; in 4 parts		
Folder #14	[1953-1956?]	Box 1
From LASL		
Folder #15	1954	Box 1
Incomplete in 2 of 4 parts		
Folder #16	12 Jan.-6 Sept. 1956	Box 2
Incomplete; loose pages of desk calendar		
Folder #17	1956	Box 2
Incomplete in 1 of 4 parts		
Folder #18	10 June 1956- 16 June 1957	Box 2
From Harvard		
Folder #19	27 Aug. 1956- 1 Sept. 1957	Box 2
Folder #20	31 July-31 1957	Box 2
Incomplete; loose pages of desk calendar		
Folder #21	[1957?]	Box 2
Folder #22	3 Feb.-17 1958	Box 2
Incomplete; loose pages of desk calendar		
Folder #23	1958	Box 2
Folder #24	1959	Box 2
Incomplete; loose pages of desk calendar		
Folder #25	1 Feb.-7 Dec. 1960	Box 2
Incomplete; loose pages of desk calendar		
Folder #26	[1960,1961?]	Box 2
Folder #27	3 Oct.-21 Nov. 1962	Box 2
Incomplete; loose pages of desk calendar		
Folder #28	[1962?]	Box 2
In 2 parts		

Folder #29	7 June-14 Dec. 1963	Box 2
Incomplete; loose pages of desk calendar		
Folder #30	1964	Box 2
Incomplete in 1 of 4 parts		
Folder #31	[1964?]	Box 2
Folder #32	1964	Box 2
Folder #33	1965	Box 2
Folder #34	1966	Box 2
Folder #35	1966	Box 2
Incomplete in 1 of 4 parts		
Folder #36	1967	Box 3
In 4 parts		
Folder #37	1967	Box 3
Folder #38	1968	Box 3
Incomplete in 3 of 4 parts		
Folder #39	1969	Box 3
From University of Colorado; in 4 parts		
Folder #40	1970	Box 3
From University of Colorado; incomplete in 3 of 4 parts		
Folder #41	1971	Box 3
Incomplete in 3 of 4 parts		
Folder #42	1972	Box 3
In 4 parts		
Folder #43	1973	Box 3
In 4 parts		
Folder #44	1974	Box 3
In 4 parts		
Folder #45	1975	Box 3
In 4 parts		
Folder #46	1976	Box 3
In 4 parts		
Folder #47	1977	Box 3
In 4 parts		
Folder #48	1978	Box 3
In 4 parts		
Folder #49	1979	Box 3
Incomplete in 3 of 4 parts		
Folder #50	[1979?]	Box 3
Folder #51	1980	Box 3
In 4 parts		
Folder #52	1981	Box 3
In 4 parts		
Folder #53	1982	Box 4
In 4 parts		
Folder #54	1983	Box 4
In 4 parts		
Folder #55	1984	Box 4
In 4 parts		

Folder #56	n.d.	Box 4
3 unidentified		
Address books		Box 4
Folder #1	1941	Box 4
From LASL		
Folder #2	n.d.	Box 4
4 books		
Folder #3	n.d.	Box 4
2 of 4 books from LASL		
Folder #4	n.d.	Box 4
1 of 2 books from University of Colorado		
Folder #5	n.d.	Box 4
photocopy		
<b>Series VII. Talks and interviews, 1937-1984</b>		<b>4 boxes; 2 linear feet</b>
A.A.S. meeting, talk at Gainesville, FL.	9 Mar. 1974	Box 1
Outline		
Albuquerque, talk	4 Oct. 1951	Box 1
Outline		
Albuquerque, talk	7 May 1961	Box 1
Outline		
Albuquerque, talk in	1971	Box 1
Outline		
Analogy in mathematics	1980	Box 1
Notes		
Applications of the notion of distance between combinatorial structures and growing patterns	n.d.	Box 1
Abstract		
Arden House, talk	8-10 Oct.	Box 1
Outlines		
Folder #1	[1952]	Box 1
Folder #2	[1952]	Box 1
Folder #3	[1952]	Box 1
Aspen conference on education in applied mathematics, remarks	1966	Box 1
Transcript		
Astronautics symposium, second annual. Denver, Colorado	28-30 Apr. 1958	Box 1
Schedule		
Astronomical Society, talks in the	11 July 1951	Box 1
Outlines		
Folder #1		Box 1
Folder #2		Box 1
Astr[onomical] Society, talk	n.d.	Box 1
Outline		
Astronomical Society, Purdue, talk	23 June 1967	Box 1
Outline		
Berkeley, talks	2 Nov. 1955	Box 1

Outlines		
Berkeley, talk	23 July 1960	Box 1
Outline		
Best number of science	14 May	Box 1
Notes for talk		
Binary branching process	1967	Box 1
Abstract		
Binary processes, talk on. Siam	13 June 1967	Box 1
Outline		
Biology, seminar	27 Feb. 1976	Box 1
Outline		
Biology department, Boulder, talk	22 Nov. 1968	Box 1
Outline		
Biology seminar, talks	1973	Box 1
Outlines		
Biophysics meeting, U. of IL	1967	Box 1
Transcript of discussion		
Boca Raton, talk	1978	Box 1
Outline		
Boca Raton, talk	n.d.	Box 1
Outline		
Boulder, talk	9 July 1956	Box 1
Outline		
Boulder, talk	29 Oct. 1962	Box 1
Outline		
Boulder, talk in	20 May 1968	Box 1
Outline		
Boulder, talk	10 May 1969	Box 1
Outline		
Boulder, talk	30 Sept. 1976	Box 1
Outline		
Boulder, [talk in]	25 Dec. 1976	Box 1
Outline		
Boulder, talk	30 Sept. 1983	Box 1
Outline		
Boulder[?] conference, talk at the	3 Dec. 1976	Box 1
Outline		
Boulder (for SIAM), talk	15 Nov. 1961	Box 1
Outline		
Boulder seminar	16 Nov. 1961	Box 1
Outline		
Boulder seminar	Fall 1975	Box 1
Outline		
Boulder seminar	7 Oct. 1976	Box 1
Outline		
Boulder seminar	14 Oct. 1976	Box 1
Outline		
Boulder seminar	26 Oct. 1976	Box 1



Outline		
Boulder seminar, talk	Dec. 1976	Box 1
Outline		
Boulder seminar, talk	12 Oct. 1961	Box 1
Outline		
Boulder seminar, talk	21 Oct. 1976	Box 1
Outline		
Boulder seminar, talk	28 Oct. 1976	Box 1
Outline		
Brain, the	11 May 1981	Box 1
Outline of talk in Paris		
Brain, the. Talk at Los Alamos on	1981	Box 1
Outlines		
Folder #1		Box 1
Folder #2		Box 1
Brain talk	1981	Box 1
Transcript		
Brookhaven, talk	7 Dec. 1956	Box 1
Outline		
Brookhaven, talk	27 July 1965	Box 1
Outline		
Brookhaven, talk	1978	Box 1
Outline		
Brooklyn, talk	15 Apr. 1955	Box 1
Outlines		
Brown University, talk at	26 Apr. 1957	Box 1
Outline		
Bryn Mawr, talk	1983	Box 1
Outline		
California, lecture tour	7-23 Jan. 1959	Box 1
Outline,schedule		
Cambridge, talk	3 Apr. 1961	Box 1
Outlines		
Chicago, talk	25 Apr. 1952	Box 1
Outlines		
Chicago, talk	1979	Box 1
Outline		
Chicago, talk in [?] meeting	17 Nov. 1969	Box 1
Outline		
Chicago colloquium, talk	24 Feb.	Box 1
Outline		
Chico, talk	1979	Box 1
Outline		
[Collapse of stars]	1967	Box 1
Abstract		
College de France, talk in (Flato)	n.d.	Box 1
Outline		
Colloquium in E. E.	22 May 1957	Box 1

Outline		
Colorado, University of. talk	1981	Box 1
Outline		
Combinatorial problems in the theory of patterns and process	1971	Box 1
Transcription		
Combinational seminar, talk in [Gainesville, FL?]	1982	Box 1
Outline		
Combinatorics, talk on	17 Apr. 1969	Box 1
Outline		
Combinatorics in biology [?]Flato lecture	1977	Box 1
typescript		
Combinatorics in Pisa	n.d.	Box 1
Outline of talk		
Combinatorics of the lattice of points with integer coefficients in Euclidean space	12 Feb. 1976	Box 1
Outline for seminar		
Complexity of projective Algebras	1977	Box 1
Outline		
On same page: Denver, talk in, 1977 (outline)		
Computer colloquium, talk in the	15 Nov. 1973	Box 1
Outline		
Computer seminar, talk	10 Nov. 1958	Box 1
Outline		
Computers in number theory	18-23 Aug. 1969	Box 1
List of attendees		
Computing seminar, talk	23 Oct. 1956	Box 1
Outline		
Continuum mechanics seminar, talk	9 Apr. 1957	Box 1
Outline		
Davis, talk	1979	Box 1
Outline		
Davis seminar	30 Jan. 1979	Box 1
Outlines		
Davis seminar	27 Feb. 1979	Box 1
Outline		
Denton [TX], talk at	1981	Box 1
Outline		
Denver, talk	1978	Box 1
Outline		
Denver, talk	12 Oct. 1961	Box 1
Outline		
Denver, talk	18 Oct. 1961	Box 1
Outline		
Denver, talk	15 Nov. 1961	Box 1
Outline		
Denver, talk	26 Oct. 1967	Box 1
Outline		
Denver, talk	19 Jan. 1968	Box 1

Outline		
Denver, talk	18 Oct. 1968	Box 1
Outline		
Denver, talk	23 Feb. 1969	Box 1
Outline		
Denver, talk	2 May 1969	Box 1
Outline		
Denver, talk	29 Nov. 1969	Box 1
Outline		
Denver, talk in. A.A.A.S.	30 Dec. 1961	Box 1
Outline		
Denver High School, talk	18 Jan. 1962	Box 1
Outline		
Denver Medical School, talk	10 Jan. 1968	Box 1
Outline		
Denver [?] Medical School, talk	1973	Box 1
Outline		
Denver Seminar, talk	10 Dec. 1969	Box 1
Outline		
Detroit, lecture	25 Feb.	Box 1
Outline		
Dijon, seminar	22 May 1980	Box 1
Outline		
Dijon, talk	23 Mar. 1979	Box 1
Outline		
Distances	15 Feb. 1977	Box 1
Outline and transcript for seminar		
Duluth, talk	1979	Box 1
Outline		
Dynamics of infinite systems of mass particles	1958	Box 1
Abstract; Internat'l Congress of Mathematicians, Edinburgh		
Else, John	1979	Box 2
Transcript of interview for doc. on JRO		
Engineers, talk to	1978	Box 2
Outline		
Evans, Christopher.	June 1976	Box 2
Transcript of taped interview, "Pioneers of Computing"		
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Ulam, Stanislaw		



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m. Con't from (l). "Reel 3."	February 14, 1955	4" reel-to-reel
n. "Ulam talk (Grille[?] 2/82) `Physics` Scotch Highlander brand	February 1982	C-60 cassette
o. "S. M. Ulam, 2 Oct. 1976, Talk #1. American Mathematical Heritage Symposium on the History of Applied Mathematics. U of Texas -- Arlington." Ampex 370.	October 2, 1976	C-90 cassette
p. Box label: "British Science Museum 1976 Evans Interview (Both Sides)." Tape label reads: "S. Ulam No. 12 Computer Interview." Generic tape.	1976	C-90[?] cassette
q. "Gamow lecture series 10-5-82." Generic tape	October 5, 1982	C-90[?] cassette
r. "Ulam at Bell Labs." TDK C-60SD.	n.d.	C-60 cassette

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