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Descriptive Summary

Identifier ICU.SPCL.KLEITMANN

Title Kleitman, Nathaniel. Papers

Date 1896-2001

Size 37.25 linear feet (54 boxes)

Repository Special Collections Research Center
University of Chicago Library
1100 East 57th Street
Chicago, Illinois 60637 U.S.A.

Abstract Nathaniel Kleitman, recognized as the father of modern sleep research, served on the faculty of the University of Chicago’s Department of Physiology. His papers include notes, experiment data, drafts of articles and books, academic reprints, newspaper clippings, photographs, artifacts, and audio-visual recordings.

Information on Use

Access
The collection is open for research.

Restrictions on Use
Series V contains audio and video recordings. Due to the lack of listening access copies for recordings, researchers will need to consult with staff before using audio and visual material.

Citation
When quoting material from this collection, the preferred citation is: Kleitman, Nathaniel. Papers, [Box #, Folder #], Special Collections Research Center, University of Chicago Library.

Biographical Note
Nathaniel Kleitman was born in Kishinev, Russia on April 26, 1895 to Jewish parents, Nathaniel and Pesia Kleitman. Nathaniel Kleitman, Sr. died of tuberculosis a few months prior to his son's birth. Pesia Kleitman remarried in 1900, and Nathaniel spent much of his childhood living with his maternal grandparents. He attended a private high school (a Realschule) until 1912. Kleitman studied briefly at Syrian Protestant College in Lebanon, now the American University of Beirut, in 1914. Following the outbreak of World War I, Kleitman and other foreign students were evacuated to Turkey. From there, Kleitman travelled to Greece, and then to New York in August of 1915. He became a naturalized U.S. citizen in 1918. The following year, he earned his B.S. degree from what is now City College of New York. In 1920 he received his M.A. from
Columbia University, followed by two years as an instructor in physiology and pharmacology at the University of Georgia. In 1923 he became a research associate in physiology at the University of Chicago and earned his Ph.D. that same year. Upon graduation, Kleitman was the recipient of a National Research Council fellowship which allowed him to continue his research at the University of Utrecht, the University of Paris, and the University of Chicago until 1925.

He joined the faculty of the University of Chicago in 1925 as an assistant professor of physiology, and was named associate professor in 1929. He married Paulena Schweizer in 1927; they had two daughters, Hortense and Esther. Kleitman established the world’s first sleep laboratory early in his career at the University of Chicago, and in 1939 published a seminal text on sleep research: "Sleep and Wakefulness as Alternating Phases in the Cycle of Existence" (revised and enlarged in 1963). Kleitman became a full professor at the University of Chicago in 1950.

Dr. Kleitman regularly used himself, family members, students, and assistants as research subjects. For several years, his daughters slept on beds designed to record sleep patterns. In 1938, Kleitman and post-graduate student Bruce Richardson lived for more than a month in Mammoth Cave in Kentucky to determine if humans could adapt to a twenty-eight-hour day in the absence of normal environmental cues of light and temperature change. They discovered that body temperatures fluctuate throughout the day, and that a person’s peak efficiency coincides with peak body temperature. Kleitman continued this line of inquiry in 1948 when he spent two weeks aboard a submarine, the U.S.S. Dogfish, studying the relationship between mental alertness and temperature change. From May to July of 1951, Kleitman and his family lived in Tromso, in northern Norway, where he studied how long periods of exposure to daylight affected the sleep patterns of inhabitants of the Arctic Circle.

These studies influenced the conception and scheduling of shift work for soldiers and industrial workers. Kleitman’s research also greatly impacted scientists’ understanding of circadian and ultradian rhythms. He proposed a regular, 90-minute cycle of rest and activity - in sleep and wakefulness - which he called the basic rest-activity cycle (BRAC).

In 1953, Dr. Kleitman and student Dr. Eugene Aserinsky famously reported their discovery of rapid eye movement (R.E.M.) during sleep in their paper "Regularly Occurring Periods of Eye Motility, and Concomitant Phenomena, During Sleep," published in the journal Science. They demonstrated the correlation between R.E.M. sleep and dreaming. A 1956 study of R.E.M. sleep with student William C. Dement dispelled the notion that dreams last for only a few seconds (the average person dreams for two hours a night).

Dr. Kleitman remained active in his profession long after his retirement from the University of Chicago in 1960. He published his last article at the age of eighty-seven, and was a participant in D. L. Bliwise’s study, "Sleep in a Nonagenarian: N. Kleitman" (Archives Italiennes de Biologie, 2001) from age eighty-six to ninety-four. In 1995, at the age of one-hundred, Kleitman was
a special guest at the American Professional Sleep Societies meeting in Nashville, Tennessee. There, he was accorded great respect for his impact on the field, and he interacted with other significant sleep researchers including Michel Jouvet, and former students William C. Dement and Eugene Aserinsky.

Kleitman died on August 13, 1999 in Los Angeles, California.

**Scope Note**

This collection contains the papers of Nathaniel Kleitman, the father of sleep research. The collection is divided into 6 series.

Series I, Biographical, contains information on the life of Nathaniel Kleitman, including obituaries, interview texts, bibliographies and memorial publications.

Series II: Research and Writings, is organized by research topic and contains research data (charts, tables and graphs), article drafts, and notes of Nathaniel Kleitman. Here information from a wide variety of sleep research experiments can be found, including data collected both by Kleitman himself, as well as by his students and colleagues. Edited manuscripts of Kleitman's book Sleep and Wakefulness can be found in Boxes 4-7. This includes material from the 1962 revised edition. Oversized materials from this series are located in Boxes 35-46 of Series VI, containing Kleitman's bibliographic card catalog. A key to Kleitman's color code system used in his card catalog can be found in Box 15 Folder 8.

Series III: Print Publications is organized alphabetically and contains the printed materials Kleitman had collected. These include numerous clippings from newspapers and magazines containing references to sleep in articles, advertisements and cartoons. This series also contains Kleitman's collection of academic reprints, organized alphabetically. Boxes 16 and 17 contain reprints of Kleitman's writings. Oversized materials from this series have been moved to Series VI Boxes 47-49, including newspaper clippings from the Mammoth Cave experiment and other sleep articles.

Series IV, Artifacts and Memorabilia, is organized by format or document type. Here, Kleitman's travel documents, awards, certificates, graduation programs, medals and other memorabilia can be found. Oversized materials from this series have been moved to Series VI Boxes 50-54, including equipment used in Kleitman's research.

Series V: Audio-Visual and Photographs, is organized by format. The photographs in this series include family photographs of Kleitman throughout his life, as well as photographs from his research including ones documenting his time spent in Mammoth Cave. This series also includes
audio recordings of Kleitman lectures, videocassette interviews and sleep specials. Oversized materials from this series, including two LP records, have been moved from this series to Series VI Box 53.

Series VI: Oversized Materials contains materials transferred from Series I-V. Descriptive headings can be used to trace these materials to their original locations in Series I-V.

**Related Resources**
The following related resources are located in the Department of Special Collections:

http://www.lib.uchicago.edu/e/spcl/select.html

Association for the Psychophysiological Study of Sleep. Records

University of Chicago. Department of Physiology. Records

**Subject Headings**
- Kleitman, Nathaniel, 1895-
- University of Chicago. Department of Physiology
- Sleep -- Physiological aspects
- Sleep -- Research

**INVENTORY**

**Series I: Biographical**
- **Box 1**
  - **Folder 1**
    "A Tribute to Nathaniel Kleitman," Archives Italiennes de Biologie, A Journal of Neuroscience, 2001
- **Box 1**
  - **Folder 2**
    Bibliography and biographical information for Nathaniel Kleitman, 2000
- **Box 1**
  - **Folder 3**
    Bibliography for Nathaniel Kleitman, undated
- **Box 1**
  - **Folder 4**
    Interview by Mel Stuart, questions and correspondence, 1991
- **Box 1**
  - **Folder 5**
    Interview for archival purposes by Jerry Vogel, correspondence, 1989-1990
Obituaries for Nathaniel Kleitman, 1999

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Folder 7

Series II: Research and Writings

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Box 1
Folder 9
Sleeplessness in dogs, unpublished charts and tables, 1923

Box 1
Folder 10
Rabbits and MgSO4, research charts and tables, 1925

Box 1
Folder 11
Reflexes in dogs, unpublished research charts and tables, 1926

Box 2
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Saliva references and results, 1927-1939

Box 2
Folder 3
Decorticated dogs, research charts, tables and references, 1929 1937

Box 2
Folder 4
Feiveson on goldfish and Carmile on dogs research notes, charts and tables, 1930-1931

Box 2
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Salivation, morphine, thyroid research on dogs, unpublished charts and tables, 1930

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Goldfish learning research notes, charts and tables, 1931-1959

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Box 3
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Box 3
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Norway research trip, correspondence, 1946-1951

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Folder 5
"Sleep Wakefulness Pattern in the Artic," article draft and research tables, 1949
Box 3
Folder 6
Motility, research tables and charts, 1932

Box 3
Folder 7
Orthogenic School, motility, research tables and charts, 1936

Box 3
Folder 8
Sleep patterns, Hortense and Esther Kleitman, research tables and charts, 1937-1938

Box 3
Folder 9
Sleep records, Hortense and Esther Kleitman, 1938-1940

Box 4
Folder 1
Sleep records, Hortense and Esther Kleitman, 1938-1940

Box 4
Folder 2
Sleep motility, bed board hammock, research charts and tables, 1939

Box 4
Folder 3
Motility board mattress, research charts and tables, 1942

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Folder 4-5
Mobility records, Hortense and Esther Kleitman, foot of bed raised, 1943-1944

Box 4
Folder 6
Mobility records, Hortense and Esther Kleitman, 1942

Box 4
Folder 7
Sleep and Wakefulness - first and revised edition - advertisements and reviews, 1938-1962

Box 4
Folder 8
Sleep and Wakefulness, handwritten manuscript, chapters 1-21, undated

Box 4
Folder 9
Sleep and Wakefulness, handwritten manuscript, chapters 22-36, undated

Box 5
Folder 1-3
Sleep and Wakefulness, typed manuscript, edited, bibliography and author index, undated

Box 5
Folder 4
Sleep and Wakefulness, typed manuscript, edited, chapters 1-9, 1962

Box 5
Folder 5
Sleep and Wakefulness, typed manuscript, edited, chapters 10-17, 1962
Unconditioned and conditioned galvanic skin responses, research by Ned Porte, 1938-1940

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  Leg volume and body temperature, research notes and charts, 1940-1941

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  Body temperature, research notes and charts, 1940-1942

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  Ramsaroop, research notes and tables, 1943-1944

Box 8
Folder 10
  Research notes, charts, and tables, 1943-1945

Box 9
Folder 1
  Variations of leg volume with activity, research charts and tables, 1944

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  Body temperature, research by R. B. Frost, 1946

Box 9
Folder 3
  YMCA volleyball championship research charts and tables, 1946

Box 9
Folder 4
  YMCA volleyball research group, questionnaires and tables, 1946

Box 9
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Box 9
Folder 7
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  Koenig-Thyroid temperature research notes and tables, 1948-1949

Box 10
Folder 2
  Critical Flicker Frequency (CFF) research notes, charts and tables, 1949

Box 10
Folder 3
  Heart rate charts, 1954-1956
Temperature recordings, 1959

Box 10
Folder 5
"Periodicity in Body Temperature and Heart Rate" article by N. Kleitman and A. Ramsaroop, typed draft, 1959

Box 10
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Experimental work schedules, correspondence, 1941-1952

Box 10
Folder 8
Military sleep wakefulness efficiency, correspondence, 1942-1943

Box 11
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Submarine sleeping watch patterns, correspondence and questionnaires, 1949-1950

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Submarine trial of new sleep schedule, correspondence and questionnaire replies, 1949

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Folder 5
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Box 11
Folder 6
USS Scabbardfish, correspondence, 1952

Box 11
Folder 7
Experimental schedule, comments and correspondence, 1952-1958

Box 11
Folder 8
United States Army Engineer Research and Development Laboratories (ERDL), Tulane Symposium on Flicker, 1957

Box 11
Folder 9
"A Scientific Solution of the Multiple Shift Problem," article draft, undated

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Chlorides, phosphates and body temperature, research notes and charts, 1925

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MER-32 consultation, correspondence and brochure, 1959

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Sleep characteristics of infants, research notes and charts, 1940-1959

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Sleep patterns in infants, tables, charts and participant information, 1949-1950

Box 12
Folder 6
Sleep patterns in infants, lab notes and charts, 1949

Box 12
Folder 7
National Academy of Sciences, National Research Council, Environmental Protection Division, field sleeping, correspondence and reports, 1952-1955

Box 12
Folder 8
National Academy of Sciences, National Research Council, Environmental Protection Division, reports on sleep, 1955

Box 12
Folder 9
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Conferences and symposiums on sleep research, programs, abstracts and articles, 1958-1990
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Conferences and symposiums on sleep research, programs and correspondence, 1963-1970
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"The Pupillometer," experiment and instrument guide, undated
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Articles on sleep by Samuel Edwin Anderson and George Johnson, typescripts, 1916-1943
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Notes for articles and lectures, 1928-1955
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Folder 8
Mademoiselle magazine, article on sleep by Nathaniel Kleitman, 1962-1963
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Sleeplessness experiments, research findings, notes and charts, 1922-1923
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"Chicago" anthology on the World's Fair, 1933
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Folder 6
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Conferences, invitations and souvenirs, 1929-1949

Box 29
Folder 8
Identification cards, University of Chicago and Naval Medical Research Institute, circa 1950

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Folder 9
Travel papers, 1915-1949

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Folder 11
Special Submarine Deck, playing cards, undated

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Folder 1
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Folder 3
  The Thomas W. Salmon Medal for Distinguished Service in Psychiatry, 1966

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  Film on reflex action for physiology students, correspondence and 16mm film reel, 1932

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Folder 3
  Kleitman Cave Marathon Dancing, correspondence and videocassette tape, 2001

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Folder 4
  Talk delivered by Nathaniel Kleitman at Sepulveda VA Hospital, 7 inch audio reel, 1971

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  Encyclopaedia Britannica "The Human Brain," 7 inch film reel

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  Faculty, photographs, undated

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  Nathaniel Kleitman and family, photographs, 1896-1984

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Nathaniel Kleitman and sleep experiments, photographs, 1959-1973

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Folder 10
Data charts and graphs, photographs and negatives, 1962

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Folder 11
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Data charts and figures, glass slides, undated

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Research and writing, bibliographic card catalog, index cards, A-C, undated

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Research and writing, bibliographic card catalog, index cards, C-G, undated

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Research and writing, bibliographic card catalog, index cards, G-K, undated

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Research and writing, bibliographic card catalog, index cards, K-M, undated

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Research and writing, bibliographic card catalog, index cards, S-Z, undated

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Box 48
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Box 49
Print publications, sleep references in articles, scrapbooks containing newspaper and magazine clippings, 1936-1941

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Artifacts and memorabilia, 3 wooden boxes containing surgical tools, undated

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Artifacts and memorabilia, Counter Dot Photo Interpreter tool, undated

Box 50
Artifacts and memorabilia, pen light, undated

Box 50
Artifacts and memorabilia, unidentified geological samples, undated

Box 50
Artifacts and memorabilia, magnifying spectacles, undated

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Artifacts and memorabilia, goggles on wooden mount, undated

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Artifacts and memorabilia, award certificates and diplomas, 1919-1947

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Box 53
Folder 2
Artifacts and memorabilia, Distinguished Service Award of the Thomas W. Salmon Committee on Psychiatry and Mental Hygiene, certificate and correspondence, 1966-1967

Box 53
Folder 3
Artifacts and memorabilia, sleep posters, 1929-1951

Box 53
Folder 4
Artifacts and memorabilia, Thames River Navy certificate, 1948

Box 53
Folder 5
Artifacts and memorabilia, University of Chicago Alumni Association Professional Achievement Award, certificate, program, correspondence, 1970

Box 53
Folder 6
Artifacts and memorabilia, University of Chicago Club of Greater Los Angeles Distinguished Alumnus Award, certificate and correspondence, 1969

Box 53
Folder 7
Audio visual and photographs, "We The People," Professor Kleitman spot, LP record, July 1st, 1947

Box 53
Folder 8
Audio visual and photographs, Time To Sleep, LP record and correspondence, 1947

**Box 54**
Artifacts and memorabilia, ammunition box, undated

**Box 54**
Audio visual and photographs, data charts and figures, glass slides, undated