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National Museum of American History Kenneth E. Behring Center

Guide to the Serge A. Scherbatskoy Papers

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Caitlan Maxwell.

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Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
Business Number: Phone: 202-633-3270
Fax Number: Fax: 202-786-2453
archivescenter@si.edu
<https://americanhistory.si.edu/archives>

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Serge A. Scherbatskoy Papers
Date:	1925-2002
Identifier:	NMAH.AC.0936
Creator:	Scherbatskoy, Serge A., 1908-2002 (Creator)
Extent:	17 Cubic feet (39 boxes)
Language:	Collection is in English. Some materials are in German, French, Norwegian and Russian.
Summary:	Collection documents the professional career and business interests of inventor Serge A. Scherbatskoy, who specialized in petroleum geophysics. Papers include laboratory notebooks, license agreements, correspondence, blue line prints, patent litigation files, newspaper clippings, reference files, patents, promotional literature, and audio-visual materials.

Administrative Information

Acquisition Information

The collection was donated by Serge A. Scherbatskoy's daughter, Mary Scherbatskoy, and three sons, Serge Scherbatskoy, Jr., Timothy Scherbatskoy, and Jonathan Scherbatskoy, on 2007

Related Materials

The Scherbatskoy Papers complement the Philip Bishop Collection documenting petroleum prospecting and extraction in the Museum's Modern Physics Collection and the American Petroleum Institute (API) Photograph and Film Collection (AC0711) in the Archives Center. The API Collection documents all aspects of the production of oil, including exploration, drilling, cracking, refineries, pipelines, tankers, storage tanks, service stations, and the numerous products other than gasoline produced by the petroleum industry.

The Division of Science, Medicine and Society (now Division of Medicine and Science) holds three prototypes related to this collection. See accession 2007.0212.

Processing Information

Processed by Caitlan Maxwell, intern, August, 2007; supervised by Alison Oswald, archivist.

Preferred Citation

Serge Scherbatskoy Papers, 1925-2002, Archives Center, National Museum of American History, Smithsonian Institution.

Restrictions

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Biographical / Historical

Serge Alexander Scherbatskoy (1908-2002), a petroleum geophysical engineer, held more than 200 patents worldwide in petroleum exploration. Scherbatskoy was born July 18, 1908, in Buyuk Dere, Turkey, a suburb of Constantinople where his father, Alexander Ippolitovich Scherbatskoy, was Third Secretary to the Russian Embassy. After the Russian Revolution of 1917, Alexander Ippolitovich planned to accept a post in the Kerensky government. When that fell, he joined the League of Nations offices in Berlin. Later, he moved the family to Paris where he was employed by Yokohama Specie Bank. Young Serge completed his education at the Sorbonne, earning a degree in physics in 1926.

In 1929, only months before the stock market crash, Scherbatskoy immigrated to the United States. He worked for Bell Labs in New York City from 1929 to 1932. While there, Scherbatskoy worked on the Type C Carrier telephone system, assisted in the Reproduction of Music in Auditory Perspective (the first Hi Fi) and invented an automatic volume control using copper oxide semiconductors, for which the patent was denied. About this time, he met Mary Ellen Dunham; they married in 1938 and had four children: Mary, Serge, Timothy, and Jonathan.

After being laid off from Bell Labs in 1932, Scherbatskoy held a number of odd jobs. He organized the "Bureau of Radio Engineering" to repair radios house-to-house. In 1933, he went to the University of Pennsylvania under a grant from the Works Progress Administration (later Work Projects Administration; WPA) and assisted with developing a "sound prism" (i.e., spectrometer). He worked for PHILCO Radio and Television Corporation from 1933 to 1934 where he developed a "sweeping frequency" oscillator for testing radios. About 1936, Scherbatskoy headed west to Tulsa, Oklahoma, and joined Seismograph Services Corporation. While at Seismograph, he developed the "Expander" and the "Automatic Signal Control" for use in seismographic exploration.

Scherbatskoy left Seismograph Corp. and, with Bill Green and Jerry Westby, started Well Surveys Incorporated in 1937 to develop his idea of nuclear logging of cased wells. In nuclear logging, logs are obtained by using radiation sources in the logging tool. Well Surveys was one of the first American companies that applied nuclear physics to oil prospecting. Standard Oil of New York financed the project, but various parties could not agree and they dissolved the Well Surveys Incorporated.

According to an audiotaped interview conducted by Scherbatskoy's daughter Mary, during World War II Serge Scherbatskoy worked for the U.S. Navy as an independent prime contractor to develop the lethal probability integrator (aircraft gunner training simulator) and other projects. Scherbatskoy also was involved tangentially with the Manhattan Project. As part of the Project, Scherbatskoy was recruited by Gilbert LaBine (1890-1977), a Canadian prospector who discovered radium and uranium deposits at Port Radium, Northwest Territories in 1930. Known as the father of Canada's uranium industry, LaBine was president of Eldorado Mining and Refining Limited from its start in the late 1920s to 1947. Scherbatskoy developed a portable radiation detector and headed a team pioneering this form of uranium exploration near Great Bear Lake, Canada, during 1944, locating deposits used in atomic weapons production.

In 1948, Scherbatskoy formed Geophysical Measurements Corporation (GMC) in Tulsa, Oklahoma. During this time, Scherbatskoy worked on the development of well logging technology. "Well logging is the process of exploring systematically the entire length of a drill hole by means of an instrument capable of measuring physical factors associated with the rocks traversed and producing a graph."¹ In December 1960, Scherbatskoy, Jan J. Arps

(physicist), and Jacob Neufeld (physicist) joined together with Reinholdt & Gardner (a brokerage firm) to form a limited partnership named Arps Corp. to assign, sell and license patents. The purpose was to lease to the oil industry, equipment utilizing the patented Arps process for continuous telemetering to the earth's surface of measurements made at the bottom of a borehole while drilling.

In 1964, GMC conducted a stock swap with McCullough Tool which then went bankrupt in 1968. During the 1970s, Scherbatskoy's activities included consulting with Jacob Neufeld of Oak Ridge National Laboratories. In 1973 he began a relationship with Marvin Gearhart of Gearhart-Owen Industries of Dallas, Texas. Gearhart-Owen was an instrument and oil services firm originally founded by Marvin Gearhart and Harold Owen in 1955. In 1980, Marvin Gearhart changed the name from Gearhart -Owen to Gearhart Industries, Inc., "The GO Company." Scherbatskoy was named Director of Special Projects and continued his own patent program which developed "Measurement While Drilling" and directional drilling patents.

"Measurement While Drilling" (MWD) refers to measurements acquired down hole while drilling that specifically describe directional surveying and drilling-related measurements. "Logging While Drilling" (LWD) refers to petrophysical measurements, similar to open hole wireline logs, acquired while drilling. Wireline logs are a cabling technology used by operators of oil and gas wells to lower equipment into the well. Directional drilling is the science of drilling non-vertical wells. These systems—MWD and LWD—are based on mud telemetry which is the transmission of encoded data through a drilling rig's drilling mud system using rapid fluctuations in the pressure of a closed loop circulating system.

When Gearhart-Owen went bankrupt in 1986, it was acquired by Halliburton. Scherbatskoy worked at Gearhart-Owen until 1988, when he opened his own office in Fort Worth developing Measurement While Drilling patents. Scherbatskoy died on November 25, 2002 in Fort Worth, Texas.

Source

Oil and Gas Journal, February 22, 1940, p. 62.

Scope and Contents

The Scherbatskoy papers provide insight into the relationship between inventors and the United States oil industry between the 1930s and 1990s, the evolution of the history of applied geophysics, and the development of technological innovation in oil prospecting, specifically applied and geophysics. One of the strengths of the collection is the patents Scherbatskoy pursued, renewed, or impeded. As sole proprietor of his own company, Geophysical Measurements Corp., Scherbatskoy meticulously constructed an international patenting program which made him a successful player among the giants of the oil industry. Another highlight of the collection is Scherbatskoy's fifteen laboratory notebooks that include his well logging work notes and drawings. Legal files illustrating litigation over the infringement of Scherbatskoy's patents are also found in the collection. The papers demonstrate how the oil prospecting industry worked from scientific, commercial and legal perspectives. The bulk of the papers are arranged chronologically to reflect the timeline of Scherbatskoy's career. Due to the limited number of personal materials, Scherbatskoy's personal papers are placed at the end of the series list.

Series 1, World War II Work, 1935-2002, is divided into three subseries and includes information on Scherbatskoy's relationship with physicists Bruno Pontecorvo (1913-1993) and Jacob Neufeld (1906-2000). Neufeld and Scherbatskoy worked on the application of nuclear physics to geophysical prospecting. Neufeld would later join the staff of Oak Ridge National Laboratory. Materials include a file about Pontecorvo, Neufeld's laboratory notebook, and some correspondence between Neufeld and Scherbatskoy. This series also includes materials on Scherbatskoy's well logging projects during and after World War II.

Series 2, Invention Laboratory Journals and Drawings, 1958-1992, is further divided into two subseries and includes fifteen laboratory journals and a folder of drawings related to Scherbatskoy's well logging work. The journals are arranged numerically by journal number. In some instances, journal numbers repeat. Journals are paginated and include drawings, tipped-in graphs and charts, and notes relating to Scherbatskoy's well logging work. Some of the

notebooks include pages signed by a witness, which Scherbatskoy could use as evidence to prove his ownership of a particular well logging invention idea.

Series 3, Radio Corporation of America (RCA), 1946, 1948, is comprised of one folder with a license agreement between Scherbatskoy and Radio Corporation of America for magnetic recording systems.

Series 4, Canadian Geophysical Measurements Corporation (GMC), 1957-2002, is divided into three subseries and provides information on Scherbatskoy's company Canadian Geophysical Measurements Corporation. Materials include license agreements, correspondence, and *Canadian Geophysical Measurements vs. Computalog Gearhart, Ltd* litigation files.

Series 5, ARPS Corporation (Jan J. Arps), 1960-1995, includes information on Arps Corporation, organized by Scherbatskoy, Jacob Neufeld, and Jan J. Arps in Dallas, TX to develop and practice measurement while drilling. The Arps Corporation materials are comprised of administrative and financial records, business correspondence, contracts of consultation, patents, license agreements, and Scherbatskoy's stock information.

Series 6, Gearhart-Owen Industries (GOI) (Gearhart Industries, Inc., (GII)), 1961-1996, is divided into seven subseries and consists of records generated during Scherbatskoy's measurement while drilling (MWD™) work with Gearhart-Owen Industries, Inc. One of the largest series in the collection, the Gearhart-Owen materials include license agreements, correspondence, litigation files, measurement while drilling reports and blue line prints of measurement while drilling equipment, signal extraction measurement while drilling study reports, reference materials, and United States, United Kingdom, and Canadian patent assignments between Scherbatskoy, Gearhart-Owen, and the Scherbatskoy Family Trust. Included in the litigation subseries is the *Scherbatskoy Family Trust vs. Gearhart Industries, Inc.*, case. The Scherbatskoy Family Trust in 1975 sued for royalty payments due Scherbatskoy under the Scherbatskoy Gearhart-Owen Agreement on nuclear well logging technology and measurement while drilling. The case was settled in the late 1980s, and Gearhart Industries, Inc., paid royalties to the Scherbatskoy Family Trust. Gearhart materials are also present in Series 7, 8 and 9.

Series 7, Halliburton Company, 1978-1999, is divided into four subseries and includes license agreements, lawsuits and patent infringements, patents, and company acquisitions. This series documents Scherbatskoy's relationship with the Halliburton Company pre-and post-Halliburton's acquisition of Gearhart Industries in the 1980s. Halliburton materials are also in Series 8 and 10.

Series 8, Other Professional Work, 1964-1999, is divided into twelve subseries: McCullough Tool Company, Exploration Logging, Inc., Eastman Whipstock, Schlumberger, Ltd., Sperry-Sun Well Surveying Company, Christensen, Inc., Gunn and Kuffner (attorneys), NL Industries, Inc., Baker Oil Tools, Inc., AMF Scientific Drilling International, Inc., Geolink (UK) Ltd., Technolink (Cyprus), Ltd., and Computalog Gearhart, Ltd. In addition to providing information on oil prospecting companies that Scherbatskoy consulted with during his career, materials also include correspondence between Scherbatskoy and attorneys Gunn and Kuffner relating to Scherbatskoy's well logging patent rights.

Series 9, Well Logging Research Materials, 1937-2002, includes correspondence, papers, reports, promotional literature, and general research files relating to Scherbatskoy's well logging research.

Series 10, Licensing Agreements, 1961-1989, contains four folders documenting the nuclear well logging agreement between oil prospecting companies such as Gearhart Owen, Halliburton, Geophysical Measurements, Inc., and Welex Jet Services. Both Marvin Gearhart and Harold Owen of Gearhart-Owen had been employees of Welex before founding Gearhart-Owen Industries.

Series 11, Patents, 1937-1998, includes copies of patents issued to, among others, Scherbatskoy, Robert E. Fearon (inventor), James Upchurch (inventor), John Westlake (inventor), Mobil Oil Corp and Exxon. Materials also include patent applications, patent protests, patent annuities, and correspondence with the United States Patent Trademark Organization and the German Trademark Office.

Series 12, Personal Materials, 1925-1983, includes materials on Scherbatskoy's immigration to the United States, school diplomas, and memorial book. Visual materials include original photographs, and color copies of original photographs of Scherbatskoy as an adult, his family, and his inventions. Also included is a 1944 submarine training

16mm reel-to-reel film and an audio cassette tape of Scherbatskoy discussing his World War II work with his daughter Mary Scherbatskoy.

Arrangement

Collection arranged into twelve series.

Series 1, World War II Work, 1935-2002

Subseries 1, Relationship with Bruno Pontecorvo, 1940-2002

Subseries 2, Relationship with Jacob Neufeld, 1935-1954

Subseries 3, Scherbatskoy Well Logging Project, 1940-1951

Series 2, Invention Journals and Drawings, 1958-1992

Subseries 1, Lab Journals, 1963-1992

Subseries 2, Scherbatskoy Invention Drawings, 1958, 1966

Series 3, Radio Corporation of America (RCA), 1946, 1948

Series 4, Canadian Geophysical Measurements Corporation (GMC), 1957-2002

Subseries 1, License Agreements, 1957-2002

Subseries 2, Correspondence, 1967-2002

Subseries 3, *Canadian Geophysical Measurements vs. Computalog Gearhart, Ltd.*, 1986-1996

Series 5, ARPS Corporation (Jan J. Arps), 1960-1995

Series 6, Gearhart-Owen Industries, Inc., (GOI), (Gearhart Industries Inc., (GII), 1961-1996

Subseries 1, License Agreements, 1961-1996

Subseries 2, Correspondence, 1974-1988

Subseries 3, Scherbatskoy Family Trust (SFT) vs. Gearhart Industries, Inc., 1975-1988

Subseries 4, Measurement While Drilling (MWD) Development Reports and Blue Line Prints, 1973-1984

Subseries 5, Gearhart-Owen Signal Extraction (MWD) Study, 1979-1981

Subseries 6, Reference Materials, 1977-1990

Subseries 7, Patent Assignments, 1961-1987

Series 7, Halliburton Company, 1978-1999

Subseries 1, License Agreements, 1979-1999

Subseries 2, Lawsuits and Patent Infringements, 1989-1996

Subseries 3, Patents, 1978-1997, undated

Subseries 4, Halliburton Acquisitions, 1988-1999

Series 8, Other Professional Work, 1964-1999

Subseries 1, McCullough Tool Company, 1964-1996

Subseries 2, Exploration Logging, Inc., 1966-1998

Subseries 3, Eastman Whipstock, (Gesellschaft mit beschränkter Haftung-(GmbH)), 1978-1995

Subseries 4, Schlumberger, Ltd., 1967-1999

Subseries 5, Sperry-Sun Well Surveying Company, 1971-1996
Subseries 6, Christensen Diamond Products, Inc., 1977-1988
Subseries 7, Gunn and Kuffner (Attorneys), 1977-1999
Subseries 8, NL Industries, Inc., 1978-1994
Subseries 9, Baker Oil Tools, Inc., 1980-1999
Subseries 10, AMF Scientific Drilling International, Inc., 1984-1987
Subseries 11, Geolink (UK), Ltd., /Technolink (Cyprus) Ltd., 1985-2002
Subseries 12, Computalog Gearhart, Ltd., 1990-2002

Series 9, Well Logging Research Materials, 1937-2002

Subseries 1, Correspondence, 1967-2002
Subseries 2, Papers and Reports, 1960-1990
Subseries 3, Promotional Literature, 1978, undated
Subseries 4, General, 1937-1996

Series 10, Licensing Agreements, 1961-1989

Series 11, Patents, 1937-1998

Subseries 1, Well Logging Patents, 1937-1998
Subseries 2, John E. Westlake (Inventor) Patents, 1972-1996
Subseries 3, James M. Upchurch (Inventor) Patents, 1990-1998
Subseries 4, Other, 1943-1997

Series 12, Personal Materials, 1925-1983

Subseries 1, Personal Papers, 1925-1966
Subseries 2, Photographs, circa 1950s, undated
Subseries 3, Audio Visual Materials, 1944, 1983

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Geophysics
Inventions
Inventors
Licenses
Patents
Petroleum -- Prospecting
Petroleum industry
Physicists
Physics
Seismic prospecting
Seismology

Types of Materials:

- Agreements
- Contracts
- Correspondence
- Diazo prints
- Laboratory notebooks
- Notebooks
- Patent applications
- Reports

Names:

Neufeld, Jacob, 1906-2000

Container Listing

Series 1: World War II Work, 1935-2002

Subseries 1.1: Relationship with Bruno Pontecorvo, 1940-2002

Box 1, Folder 1	File re: Bruno Pontecorvo, 1940-1943
Box 1, Folder 2	Original of agreement between Bruno Pontecorvo and Scherbatskoy regarding US Patent No. 2,206,634, 1943 January
Box 1, Folder 3	Correspondence regarding Pontecorvo's and Scherbatskoy's well logging patent, 1976, 1946, 1948, 1949, 1950
Box 1, Folder 4	Copies of Enrico Fermi (Italian physicist) et al. (including Bruno Pontecorvo) patents, 1955, 1940
Box 1, Folder 5	Correspondence regarding disappearance of Bruno Pontecorvo, 1950-1952
Box 1, Folder 6	Materials related to Bruno Pontecorvo, 1943-1944, 1953, 1976

Subseries 1.2: Relationship with Jacob Neufeld, 1935-1954

Box 1, Folder 7	Neufeld laboratory notebook, 1935-1941
Box 1, Folder 8	List of Neufeld patents, 1937-1954
Box 1, Folder 9	Scherbatskoy and Jacob Neufeld correspondence regarding measurement while drilling, 1980, 1987, 1985

Subseries 1.3: Scherbatskoy Well Logging Project, 1940-1951

Box 1, Folder 10	Publications relating to well logging, 1951, 1940, 1946-1947, undated
Box 1, Folder 11	Newspaper articles featuring Scherbatskoy and his well logging developments, 1945, 1950

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Series 2: Invention Journals and Drawings, 1958-1992

Subseries 2.1: Lab Journals, 1963-1992

Box 2, Folder 1	Journal 1, 1973, 1963
Box 2, Folder 2	Journal 2, 1972-1974
Box 2, Folder 3	Journal 3, 1974
Box 3, Folder 1	Journal 4, 1938-1939
Box 3, Folder 2	Journal 4, 1974-1975
Box 3, Folder 3	Journal 5, 1974-1975
Box 4, Folder 1	Journal 6, 1976, 1975, 1978
Box 4, Folder 2	Journal 6, 1976
Box 4, Folder 3	Journal 7, 1977, 1976
Box 4, Folder 4	Journal 8, 1949
Box 5, Folder 1	Journal 8, 1977
Box 5, Folder 2	Journal 9, 1978
Box 5, Folder 3	Journal 10, 1979, 1978
Box 6, Folder 1	Journal 11, 1979-1980
Box 6, Folder 2	Journal 12, 1980-1984
Box 6, Folder 3	Journal 13, 1984-1992

Subseries 2.2: Scherbatskoy Invention Drawings, 1966, 1958

Box 1, Folder 12

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Series 3: Radio Corporation of America (RCA), 1948, 1946

Box 1, Folder 13

Scherbatskoy and Radio Corporation of America (RCA) license agreement
regarding magnetic recording systems, 1948, 1946

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Series 4: Canadian Geophysical Measurements Corporation (GMC), 1957-2002

Subseries 4.1: License Agreements, 1957-2002

Box 1, Folder 14	Dr. Robert Hofstadter and Geophysical Measurements Corp. license agreement regarding crystals, 1957
Box 1, Folder 15	Canadian Geophysical Measurements Memorandum of Association, 1964
Box 1, Folder 16	Scherbatskoy's Canadian Geophysical stock shares information, 1976, 1967, 1984-1986, 1979
Box 1, Folder 17	Canadian Geophysical Measurements and Scherbatskoy settlement and license agreement with Computalog regarding measurement while drilling (measurement while drilling), 1990 July
Box 7, Folder 1	Geophysical Measurements, Computalog, and Scherbatskoy measurement while drilling agreement, 1989-1990, 1997, 1992
Box 7, Folder 2	Geophysical Measurements, Computalog, and Scherbatskoy measurement while drilling agreement, 2002, 1998-1999

Subseries 4.2: Correspondence, 1967-2002

Box 7, Folder 3	Geophysical Measurements with Nuclear Associates, Inc., regarding indicating monitors and ionization chambers (measurement while drilling), 1967
Box 7, Folder 4	Geophysical Measurements with Nuclear Associates, Inc., regarding indicating monitors and ionization chambers (measurement while drilling), 1967-1968
Box 7, Folder 5	Corporation Trust Company correspondence with Scherbatskoy regarding Canadian Geophysical Measurements, Corp. LTD, 1969-1978
Box 7, Folder 6	Scherbatskoy correspondence (incoming/outgoing) regarding resolution for Canadian Geophysical Measurement, LTD, 1995-2002

Subseries 4.3: Canadian Geophysical Measurements vs. Computalog Gearhart, Ltd., 1986-1996

Box 7, Folder 7	Scherbatskoy/Geophysical Measurements vs. Computalog, 1988-1989, 1986
Box 7, Folder 8	Scherbatskoy/Geophysical Measurements vs. Computalog, 1986-1989
Box 7, Folder 9	Canadian Geophysical Measurements vs. Computalog, 1995, 1988-1991

Box 7, Folder 10	Canadian Geophysical Measurements vs. Computalog, 1988-1990
Box 7, Folder 11	Canadian Geophysical Measurements vs. Computalog, 1989 January-February
Box 8, Folder 1	Canadian Geophysical Measurements vs. Computalog, 1989 February-March
Box 8, Folder 2	Geophysical Measurements vs. Computalog Gearhart, 1989 March-June
Box 8, Folder 3	Geophysical Measurements vs. Computalog Gearhart, 1989-1990, 1996
Box 8, Folder 4	Expired Canadian patents granted to Scherbatskoy and Geophysical Measurements Corp., 1955, 1957-1958, 1961

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Series 5: ARPS Corporation (Jan J. Arps), 1960-1995

Box 8, Folder 5	Administrative records, 1960-1964
Box 8, Folder 6	Administrative records, 1964, 1972-1973, 1976-1981
Box 8, Folder 7	Financial records, 1964-1965
Box 8, Folder 8	Business correspondence (incoming and outgoing), 1960
Box 8, Folder 9	Business correspondence (incoming and outgoing), 1965, 1960
Box 9, Folder 1	Stock information, 1960-1961, 1963, 1965
Box 9, Folder 2	Contract of Consultation (Scherbatskoy), 1961
Box 9, Folder 3	License agreement: Arps and Drilling Engineering Industry, Inc., 1966-1968
Box 9, Folder 4	Resistivity logging system for wells patent, 1963
Box 9, Folder 5	Apparatus for logging well patent, 1995, 1950, undated
Box 9, Folder 6	Scherbatskoy compiled list of J.J. Arps and Hayward measurement while drilling patents (includes article on Arps logging tool), circa 1964

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Series 6: Gearhart-Owen Industries, Inc., (GOI), Gearhart Industries Inc., (GII), 1961-1996

Subseries 6.1: License Agreements, 1961-1996

Box 9, Folder 7	Scherbatskoy, Schlumberger, and Gearhart-Owen Industries well logging agreements, 1972, 1977-1978
Box 9, Folder 8	Exxon Production Research Company (EPR) and Gearhart Industries Inc., (GII), measurement while drilling licensing agreements and patents, 1974-1985
Box 9, Folder 9	Core Laboratories Inc., and Gearhart-Owen Industries logging while drilling agreement, 1977-1978
Box 9, Folder 10	Core Laboratories Inc., and Gearhart-Owen Industries logging while drilling agreement, 1978-1985, 1987
Box 9, Folder 11	Copies of Serge Scherbatskoy, Scherbatskoy Family Trust, and Gearhart Industries agreements regarding Scherbatskoy royalty payments, 1977-1979, 1984, 1987
Box 9, Folder 12	Copies of Serge Scherbatskoy, Scherbatskoy Family Trust, and Gearhart Industries agreements regarding Scherbatskoy royalty payments, 1987
Box 9, Folder 13	Copies of Serge Scherbatskoy, Scherbatskoy Family Trust, and Gearhart Industries agreements regarding Scherbatskoy royalty payments, 1987
Box 10, Folder 1	Arco Alaska, Inc., Exploration Logging, Inc. (Exlog), Eastman Whipstock, Inc., Gearhart Industries, Halliburton, and Scherbatskoy agreements, 1978, 1984-1987
Box 10, Folder 2	NL Industries, Inc., and Gearhart Owen measurement while drilling tools agreements, 1978-1979
Box 10, Folder 3	NL Industries, Inc., and Gearhart Owen measurement while drilling tools agreements, 1979-1980
Box 10, Folder 4	NL Industries, Inc., and Gearhart Owen measurement while drilling agreements, 1979, 1982-1983, 1986, 1994
Box 10, Folder 5	NL Industries, Inc., and Gearhart Owen measurement while drilling technology agreements, 1979 July
Box 10, Folder 6	NL Industries, Inc., and Gearhart Owen measurement while drilling technology agreements, 1980-1983
Box 10, Folder 7	NL Industries, Inc., and Gearhart Owen measurement while drilling technology agreements, 1983-1987

Box 10, Folder 8	Gearhart Industries agreement with DigiCourse Inc., regarding solid magnetic compass/laser gyroscopes, 1981, undated
Box 10, Folder 9	Gearhart license agreement with Amoco/Schlumberger Technology regarding sidewall coring tool, 1982, 1984
Box 10, Folder 10	Amoco (Standard Oil Company) and Gearhart sidewall coring tool license agreement, 1982, 1984
Box 10, Folder 11	Gearhart license agreement: Rock Bit Industries U.S.A. Inc., and Hughes Tool Company, 1982
Box 10, Folder 13	Scherbatskoy, Gearhart Industries, and Exlog agreements, 1988-1989
Box 11, Folder 1	Scherbatskoy, Gearhart Industries, and Exlog agreements, 1992-1996
Box 11, Folder 2	Scherbatskoy and Gearhart Industries Patent agreement, 1987
Box 11, Folder 3	Heads of sub-license and license agreement Scherbatskoy/Gearhart Industries/ Exlog, 1987-1988
Box 11, Folder 4	Copies of patent agreements between Scherbatskoy and Gearhart Industries regarding Scherbatskoy royalties, 1987
Box 11, Folder 5	Serge Scherbatskoy, Scherbatskoy Family Trust (SFT), and Gearhart Industries patent agreement and assignment, 1987-1988, 1991

Subseries 6.2: Correspondence, 1974-1988

Box 11, Folder 6	Correspondence (Scherbatskoy and GOI) and reference materials regarding sealed-off neutron generator tubes, 1974, 1976, 1977
Box 11, Folder 7	Correspondence (GOI) and reference materials regarding pulsed neutron well logging system (Poland Institute of Nuclear Techniques) (includes Neufeld visit report),, 1977, 1976
Box 11, Folder 8	Correspondence (GOI) and reference materials regarding pulsed neutron well logging system (Poland Institute of Nuclear Techniques) (includes Neufeld visit report), 1977
Box 11, Folder 9	(GOI) Correspondence with J.A. Czubek (Institute Nuclear Physics) regarding cross-correlation technique for well logging, 1979
Box 11, Folder 10	Correspondence between Scherbatskoy and Exxon Production Research Company (EPR) regarding downhole blowout prevention demonstration (includes presentation materials), 1981, 1983, undated

Box 11, Folder 11	Letter to Scherbatskoy from Gearhart regarding measurement while drilling royalty remittance, 1984
Box 11, Folder 12	Abel and Imray (Attorneys) and Gearhart Owen Geodata Services correspondence regarding proposed patent application, 1985
Box 11, Folder 13	Jim Harrison (Technical Manager Gearhart/Geodata Services Limited) correspondence (outgoing/incoming) regarding UK Patent "Downhole Energy Storage", 1985
Box 11, Folder 14	Correspondence with Andrew Dowdy (inventor) regarding Dowdy's sonic gas detector, 1986
Box 12, Folder 1	Gearhart Industries correspondence regarding measurement while drilling, 1980-1982, 1985, 1979
Box 12, Folder 2	Gearhart Industries correspondence regarding measurement while drilling, 1986 March-July
Box 12, Folder 3	Gearhart Industries correspondence regarding measurement while drilling (includes blue line prints), 1986 July-December
Box 12, Folder 4	Gearhart Industries correspondence regarding measurement while drilling (includes blue line prints), 1987
Box 12, Folder 5	Gearhart Industries correspondence regarding measurement while drilling, 1988
Box 12, Folder 6	Gearhart Industries outgoing correspondence regarding patents, 1985, 1982, 1980
Box 12, Folder 7	Gearhart Industries outgoing correspondence regarding patents, 1990-1992, 1985-1987
Box 12, Folder 8	Scherbatskoy letter to Paul Wolff (Applied Engineering Corporation), regarding material on non-destructive testing, 1988 June 22

Subseries 6.3: *Scherbatskoy Family Trust (SFT) vs. Gearhart Industries Inc., 1975-1988*

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