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**Descriptive Summary****Creator:** Alfven, Hannes, 1908-**Title:** Hannes Alfven Papers,**Date (inclusive):** 1945-1991**Extent:** 12.00 linear feet(30 archives boxes)

**Abstract:** Papers of Hannes Olof Gosta Alfven, Nobel Prize winning astrophysicist who contributed to significant advances in the fields of magnetohydrodynamics, plasma physics, geophysics, thermonuclear reaction, and cosmology. He shared the Nobel Prize for Physics with Louis Neel in 1970. Alfven developed many controversial theories explaining the behavior of interstellar magnetic fields, debunking the "big bang," and attempting to rewrite the history of the solar system. Though initially ignored or rejected, many of his ideas were later extremely influential in revolutionizing the disciplines of astrophysics and geophysics. He was also an advocate of nuclear armaments destruction, working actively with other scientists such as Harold Urey to prevent nuclear proliferation and conflict. Among Alfven's teaching positions were posts at the Royal Institute of Technology, Stockholm, and the University of California, San Diego. The papers span the years 1945 to 1991 and are organized into ten series: 1) BIOGRAPHICAL MATERIALS, 2) WRITINGS, 3) CORRESPONDENCE, 4) PUGWASH, 5) COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH, 6) SUBJECT FILES, 7) GRANTS, 8) TEACHING MATERIALS, 9) MEETINGS AND SYMPOSIA, and 10) PHOTOGRAPHS. The collection contains significant correspondence with Alfven's fellow scientists, including Gustaf Arrhenius, C.G. Falthammar, and Harold Urey, as well as substantial photographic documentation of Alfven's studies of the solar system. The collection focuses primarily on Alfven's time as Professor of Applied Physics at the University of California, San Diego, but nearly every work from his immense bibliography is represented, many in draft forms. Absent from the collection is any extensive documentation of Alfven's personal life.

**Repository:** University of California, San Diego. Geisel Library. Mandeville Special Collections Library.  
La Jolla, California 92093-0175

**Collection number:** MSS 0225**Language of Material:** Collection materials in English**Access**

Collection is open for research.

**Acquisition Information**

Not Available

**Preferred Citation**

Hannes Alfven Papers, MSS 0225. Mandeville Special Collections Library, UCSD.

**Publication Rights**

Publication rights are held by the creator of the collection.

**Biography**

Hannes Olof Gosta Alfven was born in Norrkoping, Sweden, on May 30, 1908, of parents who were both practising physicians. He received his Ph.D. at the University of Uppsala in 1934 and served as Professor of Electronics (1940-1964) and Professor of Plasma Physics (1964-1973) at the Royal Institute of Technology, Stockholm. Since 1967, he served as Professor of Applied Physics at the University of California, San Diego, spending six months of the year at UCSD and six months at the Royal Institute of Technology, Stockholm.

For his research in magnetohydrodynamics and plasma physics, Alfven shared the 1970 Nobel Prize in Physics with Louis Eugene Felix Neel. He was a Foreign Associate Member of the National Academy of Sciences (U.S.), a member of the Akademia Nauk (the former Soviet Union), and a member of the Royal Swedish Academy of Sciences. In 1971, he was awarded the Franklin Gold Medal by the Franklin Institute as well as the Lomonosov Gold Medal, the highest award given by the then U.S.S.R. Academy of Sciences, for "outstanding achievements in plasma physics and astrophysics." Alfven was also a member of the Swedish Science Advisory and served as president of the Pugwash Conference on Science and World Affairs.

Alfven often published his original work in relatively inaccessible journals. His book, COSMICAL ELECTRODYNAMICS appeared in 1950, followed by ORIGIN OF THE SOLAR SYSTEM (1959) with C.G. Falthammar; COSMICAL ELECTRODYNAMICS, FUNDAMENTAL PRINCIPLES (1963); WORLDS-ANTIWORLDS: ANTIMATTER IN COSMOLOGY (1966); THE TALE OF THE BIG COMPUTER (1968)

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under the pen name of Olof Johannesson; *ATOM, MAN AND THE UNIVERSE* (1969); *LIVING ON THE THIRD PLANET* (1972) with his wife, Kerstin Alfvén, and *STRUCTURE AND EVOLUTIONARY HISTORY OF THE SOLAR SYSTEM* (1975) with Gustaf Arrhenius.

More than ninety-nine percent of the matter in the universe is in the form of a plasma, that is, a gas consisting of electrically charged and neutral particles. Under special conditions, magnetohydrodynamics (MHD) can be used to study plasmas. Hannes Alfvén pioneered the development of MHD, the study of the motion of an electrically conducting fluid interacting with magnetic fields, and, in particular, the subject of plasma physics, the branch of MHD in which the fluid under study is a highly ionized gas consisting of nearly equal numbers of positively and negatively charged particles. Alfvén was chiefly concerned with plasmas in stars, in the geomagnetic field, and in interplanetary and interstellar space, but his theories were basic to the study of laboratory plasmas encountered in the development of controlled thermonuclear fusion. More specifically, Alfvén applied his analyses to such phenomena as geomagnetic storms, the aurora, the Van Allen radiation belts, sunspots, and the evolution of the solar system. His results have been seminal not only in designing thermonuclear reactors, but also in the development of astrophysics, space science, and geophysics. Despite (or perhaps because of) his major advances in the realm of nuclear physics, Alfvén was outspoken in his warnings against the dangers associated with nuclear energy and nuclear bombs, and devoted much of his last years to working toward international conflict resolution and peace strategies.

### **Scope and Content of Collection**

Accession Processed in 1996

Papers of Hannes Alfvén, scientist, Nobel Prize recipient in the field of Electrical Engineering and Computer Science, and author. Alfvén pioneered theoretical research in the field of magnetohydrodynamics, the study of the interaction of conducting fluids and magnetic fields, for which he received the 1970 Nobel Prize in physics with Louis Néel. The materials in this collection relate primarily to Alfvén's work at UCSD and include correspondence, manuscripts, class materials, published and unpublished papers, notes and computations, photographs, and subject files. The collection is divided into ten series: 1) BIOGRAPHICAL MATERIALS, 2) WRITINGS, 3) CORRESPONDENCE, 4) PUGWASH, 5) COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH, 6) SUBJECT FILES, 7) GRANTS, 8) TEACHING MATERIALS, 9) MEETINGS AND SYMPOSIA and 10) PHOTOGRAPHS.

#### **SERIES 1: BIOGRAPHICAL MATERIALS**

This series is arranged alphabetically and contains substantial biographical as well as bibliographical materials from the principal stages of Alfvén's professional career. Also included are various award certificates and a comprehensive file of correspondents and fellow scientists.

#### **SERIES 2: WRITINGS**

This series is divided into two subseries, "Writings of Alfvén" and "Writings of Others," both of which are arranged in alphabetical order. Almost all of Alfvén's better-known monographs and publications are represented in progressive draft forms, some with original computations and related charts and figures. Highlighted in the first subseries is the great extent to which Alfvén collaborated with diverse and eminent scientists on projects which expanded traditional scientific thought. The second subseries is comprised solely of papers written by others which were annotated by Alfvén. This series, in addition to showing Alfvén's wide array of political and scientific interests, illustrates his strong critical engagement with students and peers.

#### **SERIES 3: CORRESPONDENCE**

This series is divided into two subseries, "Correspondence" and "Chronological Files." The first subseries is arranged alphabetically by correspondent and the second subseries is organized chronologically. The "Correspondence" subseries profiles the astounding range and quantity of correspondents with whom Alfvén exchanged ideas and efforts. Significant correspondence with groups connected with nuclear disarmament as well as with people such as Ralph Nader is combined with ample correspondence with scientists such as Harold Urey, G. de Vaucouleurs, Gustaf Arrhenius, and Per Carlqvist. The "Chronological File" subseries also contains the chronological files of Asoka Mendis, a close associate of Alfvén who often sat in for him during his time at the Royal Institute of Technology in Stockholm.

#### **SERIES 4: PUGWASH**

This series dates from 1970 to 1974 and is arranged chronologically. Of significance are files concerning Alfvén's role as president, and documents relating to the 21st Pugwash Conference at Sinaia, Romania in 1971.

#### **SERIES 5: COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH**

This series spans the years 1970 to 1985 and is organized in chronological order. Included are publications of CSTR, a transcript from their international symposium in Leningrad, May 1970, ample research from the special Board on Atmospheric Sciences and Climate, and the minutes of several meetings in which Alfvén played an important role.

#### **SERIES 6: SUBJECT FILES**

The Subject Files are arranged alphabetically. Some of the larger files include: Alfvén Waves, Alfvén's Critical Velocity Effect as tested in space at the Max Planck Institute, Amnesty International, Energy, Food and Disarmament International, NASA, and the National Science Foundation.

#### **SERIES 7: GRANTS**

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This series, dating from 1969 to 1989, is arranged chronologically, and presents documents and manuscripts of scientific projects for which Alfven was the principal investigator or co-principal investigator. All grants presented in this series were awarded by either NASA or the National Science Foundation.

#### SERIES 8: TEACHING MATERIALS

This series is arranged chronologically and covers the years 1969 to 1989, during which Alfven was a professor at UCSD. The majority of classes are offered under one of two headings: Applied Physics and Information Science, and Electrical and Computing Engineering. The bulk of the material in this series consists of special departmental lecture notices and Alfven's transcribed lectures.

#### SERIES 9: MEETINGS AND SYMPOSIA

This series is arranged in alphabetical order, beginning with a large record of all known conferences to which Alfven accepted the invitation to speak. The wide range of Alfven's social and intellectual commitments is evinced by his significant contributions to symposia such as "Energy Resources Conservation and Development Commission Hearings," "Plasma Astrophysics," and "International Conference on Conflict Resolution and Peace Studies."

#### SERIES 10: PHOTOGRAPHS

This series is organized into three subseries: Images of Alven, Group Photographs, and General Photographs. Each subseries is ordered alphabetically.

Books and journals received in the 1992 accession of the Hannes Alfven Papers have been separated from the collection and added elsewhere to the library's holdings. To identify and list these items, conduct an author search in ROGER on the term "Alfven, Hannes former owner."

### **Indexing Terms**

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

### **Subjects**

Alfven, Hannes, 1908- -- Archives  
University of California, San Diego -- Faculty -- Archives  
Committee on Solar-Terrestrial Research  
Geophysics  
Controlled fusion  
Magnetohydrodynamic waves  
Nuclear arms control  
Physics -- Study and teaching  
Physicists -- Biography  
Cosmology  
Plasma waves  
Photographic prints -- 20th Century.

### **Contributors**

Akasofu, Syun Ichi, -- correspondent  
Anderson, Victor C., -- correspondent  
Arp, Halton, -- correspondent  
Carlqvist, Per, -- correspondent  
Johanson, Gunnar, 1951- -- correspondent  
Kopal, Zdenek, 1914- -- correspondent  
Lehnert, B. -- (Bo), 1926- -- correspondent  
Pauling, Linus, 1901- -- correspondent  
Peratt, Anthony L. -- correspondent  
Urey, Harold Clayton, 1893- -- correspondent  
Vaucouleurs, Gerard Henri De, 1918- -- correspondent  
York, Herbert F. -- (Herbert Frank), -- correspondent

PERSONAL

box 1, folder 1	<b>Addresses: References 1945 - 1974</b>
box 1, folder 2	<b>Addresses: Rolodex</b>
box 2, folder 1	<b>Articles on Hannes Alfvén 1970 - 1988</b>
box 2, folder 2	<b>Award Certificates 1970 - 1971</b>
box 2, folder 3	<b>Biographies 1974 - 1987</b>
box 2, folder 4	<b>Hospital Report 1977</b>
box 2, folder 5	<b>Mailings 1970 - 1988</b>

## WRITINGS

## Writings of Alfven

box 2, folder 6	<b>Bibliographies 1931 - 1987</b>
box 2, folder 7	<b>Miscellaneous Charts and Graphs</b>
box 2, folder 8	<b>23rd Pugwash Conference Introductory Talk 1973</b>
box 2, folder 9	<b>32 Tagung der Nobelpreisträger in Lindau, excerpt from a speech at the end of 1982</b>
box 2, folder 10	<b>Accretion in a Jet Stream 1969</b>
box 2, folder 11	<b>Accretion of an Embryo 1969</b>
box 2, folder 12	<b>Address at the 24th Pugwash Conference 1974</b>
box 2, folder 13	<b>Address to the Congregation for the Conferment of Degrees, University of Aston 1974</b>
box 2, folder 14	<b>Akasofu 1984</b>
box 2, folder 15	<b>American Geophysical Union rough draft 1988</b>
box 2, folder 16	<b>Analysis of the Saturnian Ring Structure 1983</b>
box 2, folder 17	<b>Anforande i Mariehamn 1981</b>
box 2, folder 18	<b>Anforande vid 10-årsminnet av Slaget vid Ranstad 1986</b>
box 2, folder 19	<b>Angular Momentum Transfer and Partial Corotation</b>
	<b>Note</b>
	Abstract only.
box 2, folder 20	<b>Annihilation Model of Quasi-Stellar Objects 1978 - 1979</b>
box 2, folder 21	<b>Annihilation Model of Quasi-Stellar Objects, references and notes 1978</b>
box 2, folder 22	<b>Annihilators and Omnicide 1983 - 1984</b>
box 2, folder 23	<b>Antimatter/Antimaterie 1970</b>
box 2, folder 24	<b>Antimatter and Cosmology 1967</b>
box 2, folder 25	<b>Antimatter and the Development of the Metagalaxy 1965</b>
box 2, folder 26	<b>Antimatter, Quasi-Stellar Objects and the Evolution of Galaxies 1969</b>
box 2, folder 27	<b>Apokatastasis, or Rewinding the Solar System--at IBM Speed 1970</b>
box 2, folder 28	<b>Appeal to President Reagan and Secretary General Gorbachev 1985</b>
box 2, folder 29	<b>Apples in a Spacecraft 1971</b>
box 2, folder 30	<b>Argument For a Mission to an Asteroid 1971</b>
box 3, folder 1	<b>Aristarchos and Cosmology, From the Crystalline Spheres to the Big Bang 1980</b>
box 3, folder 2	<b>Asteroid and Comet Exploration 1973</b>
box 3, folder 3	<b>Asteroid Program 1981</b>
box 3, folder 4	<b>Asteroidal Jet Streams 1968</b>
box 3, folder 5	<b>Asteroids 1969</b>
box 3, folder 6	<b>Asteroids and the Origin of the Solar System 1972</b>
box 3, folder 7	<b>Astrophysics in a Nutshell: From the Telescope to the Sputnik 1988</b>
box 3, folder 8	<b>Atomdeklaration 1977</b>
box 3, folder 9	<b>Atomenergi och Atombomber</b>
box 3, folder 10	<b>Auroral Research in Scandinavia (the Kristian Birkeland Lecture), folder 1 1987</b>
box 3, folder 11	<b>Auroral Research in Scandinavia (The Kristian Birkeland Lecture), folder 2 1987</b>
box 3, folder 12	<b>Band-Structure of the Solar System 1978</b>
box 3, folder 13	<b>Bidrag till Debatten om Miljöpartiets Forskningspolitiska Program</b>
box 3, folder 14	<b>Big Bang 1976</b>
box 3, folder 15	<b>Big Bang Cosmology 1974</b>
box 3, folder 16	<b>Bow Shock as a Dynamo 1983</b>
box 3, folder 17	<b>Breakthrough in Magnetic Plasma Physics 1978</b>
box 3, folder 18	<b>Calculation of the orbits of ejecta from a body in circular Kepler motion</b>
box 3, folder 19	<b>Cassini Rings</b>
box 3, folder 20	<b>Chalki International Youth Forum of Peace and Friendship--On the Nuclear Debate 1986</b>
box 3, folder 21	<b>Collision Between a Nonionized Gas and a Magnetized Plasma 1960</b>

## WRITINGS

### Writings of Alfven

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box 3, folder 22 **Comets and Asteroids: A Strategy for Exploration 1972**  
box 3, folder 23 **Comets and Asteroids--Fundamental Targets for Space Exploration**  
box 3, folder 24 **Comets--Asteroids Binder Table of Contents 1970 - 1971**  
box 3, folder 25 **Comments on Cowling's Review of the Monograph COSMIC PLASMA 1982**  
box 3, folder 26 **Comments of H. Arp "The Persistent Problem of Spiral Galaxies" 1987**  
box 3, folder 27 **Comments on Dr. Bethe's Paper 1977**  
box 3, folder 28 **Comments on "Tearing Down Disciplinary Boundaries" by Juan Roederer 1986**  
box 3, folder 29 **Concerning the Relationship Between Peaceful Nuclear Technology 1976**

#### Note

Full title: Concerning the Relationship between Peaceful Nuclear Technology and Nuclear Weapons Proliferation

box 3, folder 30 **Condensation from a Partially Corotating Plasma and the Mass Distribution 1974**

#### Note

Full title: Condensation from a Partially Corotating Plasma and the Mass Distribution in the Asteroidal Belt

box 3, folder 31 **Consequences of Space Research for Astrophysics 1983**

#### Note

(Including the Origin of the Solar System)

box 3, folder 32 **Conventional Astrophysics versus IEEE Astrophysics**

#### Note

Handwritten draft.

box 3, folder 33 **Cosmic Dust and Cosmic Radiation 1974**

box 3, folder 34 **Cosmic Electrodynamics 1971**  
box 3, folder 35 **COSMIC PLASMA, abstract 1981**  
box 4, folder 1 **COSMIC PLASMA, additional images**  
box 4, folder 2 **COSMIC PLASMA, drafts and notes**

#### Note

Circa 1981.

box 4, folder 3 **COSMIC PLASMA, figures for chapters 1-4**  
box 4, folder 4 **COSMIC PLASMA, monograph, parts 1-3 1981**  
box 4, folder 5 **COSMIC PLASMA. monograph, parts 4-5 1981**  
box 4, folder 6 **COSMIC PLASMA, monograph, part 6 1981**  
box 4, folder 7 **COSMIC PLASMA, preface to the Chinese translation 1985**  
box 4, folder 8 **Cosmic Radiation and Radio Stars 1950**  
box 4, folder 9 **Cosmic Rays: Where Are They Generated? 1974**  
box 4, folder 10 **Cosmical Electrodynamics 1960**  
box 4, folder 11 **Cosmical Electrodynamics, preface to the Japanese edition 1978**  
box 4, folder 12 **Cosmogonic Model of ESS 1982**

#### Note

Answer to Gustaf Arrhenius' questions about conductivity.

box 4, folder 13 **Cosmogonic Scenario 1985**  
box 4, folder 14 **Cosmogonic Strategy 1985**  
box 4, folder 15 **Cosmogony, a New Field of Cosmic Plasma Physics 1985**  
box 4, folder 16 **Cosmogony as an Extrapolation of Magnetospheric Research 1984**  
box 5, folder 1 **Cosmogony of the Asteroid Belt 1985**  
box 5, folder 2 **Cosmogony of the Asteroid Belt, images 1985**

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## WRITINGS

### Writings of Alfven

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box 5, folder 3	<b>Cosmogony of the Asteroidal Belt 1974</b>
box 5, folder 4	<b>Cosmological Research Project 1982</b>
box 5, folder 5	<b>Cosmology and Recent Developments in Plasma Physics 1979</b>
box 5, folder 6	<b>Cosmology, de Vaucouleur</b>
	<b>Note</b>
	Handwritten computation.
box 5, folder 7	<b>Cosmology, diagrams</b>
box 5, folder 8	<b>Cosmology in the Plasma Universe 1987 - 1989</b>
box 5, folder 9	<b>Cosmology in the Plasma Universe, images 1989</b>
box 5, folder 10	<b>Cosmology: Myth or Science? 1974 - 1984</b>
box 5, folder 11	<b>Cosmology notes, references, and charts 1981 - 1982</b>
box 5, folder 12	<b>Critical Mass '75 1975</b>
box 5, folder 13	<b>Criticism of "Laplacian" Theories</b>
box 5, folder 14	<b>De Rena Evangeliska Larans Forsvar 1981</b>
box 5, folder 15	<b>Development of Astrophysics from the Telescope to the Sputnik 1988</b>
box 5, folder 16	<b>Discussion of the Origin of Terrestrial and Solar Magnetic Fields 1950</b>
box 5, folder 17	<b>Does Antimatter Exist? 1967</b>
box 5, folder 18	<b>Does Reagan Want to Kill Andropov or Sacharov? 1982</b>
box 5, folder 19	<b>Double Layers and Circuits in Astrophysics 1986</b>
box 5, folder 20	<b>Double Radio Sources and the New Approach to Cosmical Plasma Physics 1977</b>
box 5, folder 21	<b>Earlier Antibomb Movements and the Present One 1981</b>
box 5, folder 22	<b>Electric-Current Model of the Magnetosphere 1979</b>
box 5, folder 23	<b>Electric-Current Structure of the Magnetosphere 1975</b>
box 6, folder 1	<b>Electric Currents in Cosmic Plasmas 1977</b>
box 6, folder 2	<b>Electric Fields and Electric Currents in the Plasma Universe 1987</b>
box 6, folder 3	<b>Electrodynamic Sailing: Beating Into the Solar Wind 1972</b>
box 6, folder 4	<b>Electromagnetic Effects and the Structure of the Saturnian Rings 1980 - 1982</b>
box 6, folder 5	<b>Embryology of Celestial Bodies 1972</b>
box 6, folder 6	<b>Energi, Exergi och Tepidologi 1978</b>
box 6, folder 7	<b>Energipolitiken 1977</b>
box 6, folder 8	<b>Energiproblemet fran Svensk och Global Synpunkt 1972 - 1973</b>
box 6, folder 9	<b>Energy and Environment 1972</b>
box 6, folder 10	<b>Energy Crisis and the Nuclear Threat 1975</b>
box 6, folder 11	<b>Energy, papers 1976</b>
box 6, folder 12	<b>Energy Policy and Public Acceptance--Salzburg Conference. 1977</b>
box 6, folder 13	<b>Energy Source and the Solar Wind 1979</b>
box 6, folder 14	<b>Energy Supply--A Conservative Approach for the Decade Ahead</b>
box 6, folder 15	<b>Environmentalists and the Nuclear Arms 1974</b>
box 6, folder 16	<b>ESS Revisited 1981 - 1982</b>
box 6, folder 17	<b>Evolution of the Earth-Moon System 1973</b>
box 6, folder 18	<b>Evolution of the Solar System 1967 - 1975</b>
box 6, folder 19	<b>Experimental Determination of the Nature Time Constant TaH 1972</b>
box 6, folder 20	<b>Experiments With Plasma Rings 1959</b>
box 6, folder 21	<b>Exploration of Comets and the Evolution of the Solar System 1982</b>
box 6, folder 22	<b>Exploring the Origin of the Solar System by Space Missions to Asteroids 1970 - 1972</b>
box 6, folder 23	<b>Extraction of Energy from Space Plasmas 1973</b>
box 6, folder 24	<b>Facing the 21st Century: Threats and Promises 1987</b>
box 6, folder 25	<b>Filamentary Structures 1986</b>
box 6, folder 26	<b>First Approach and Second Approach to Cosmical Electrodynamics</b>
	<b>Note</b>
	Circa 1967.
box 6, folder 27	<b>Fission and Fusion Reactors: The Alfven Memorandum 1971</b>
box 6, folder 28	<b>Fission Energy 1974</b>

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box 6, folder 29	<b>Fission Energy and Other Sources of Energy 1974</b>
box 6, folder 30	<b>Five Important Questions 1974</b>
box 6, folder 31	<b>Forsvaret av Kynnefjäll 1985</b>
box 6, folder 32	<b>Fractionation and Condensation in Space 1970</b>
box 6, folder 33	<b>Fredspolitik och Karnkraft 1977</b>
box 6, folder 34	<b>From Dark Interstellar Clouds to Planets and Satellites 1978</b>
box 6, folder 35	<b>From Plasma to Planet (Origin and Evolutionary History of the Solar System) 1970</b>
box 6, folder 36	<b>From the Telescope to the Sputnik 1987</b>
box 6, folder 37	<b>Frozen-in Magnetic Field Lines, notes</b>
box 6, folder 38	<b>Further Exploration of Cosmogonic Shadow Effects in the Saturnian Rings</b>

**Note**

Lecture notes.

box 6, folder 39	<b>General Properties of Cosmic Plasmas 1977 - 1978</b>
box 6, folder 40	<b>General Remarks on the PPEPL 1973</b>
box 6, folder 41	<b>Gihn's asymmetrical band, notes</b>
box 7, folder 1	<b>Grand Tours and the Satellite System</b>
box 7, folder 2	<b>Green Revolution? 1987</b>
box 7, folder 3	<b>Hannes Alfven for Roy Torbert 1986</b>
box 7, folder 4	<b>Has the Universe an Origin? 1987</b>
box 7, folder 5	<b>Heat Structure of an Accelerated Planet 1969</b>
box 7, folder 6	<b>History of the History of the Solar System 1983</b>
box 7, folder 7	<b>Honest Language: Semantics of the Nuclear Debate 1986</b>
box 7, folder 8	<b>How Should We Approach Cosmology? 1978</b>
box 7, folder 9	<b>Hubble Constant, notes</b>
box 7, folder 10	<b>Hubble Expansion in a Euclidean Framework 1979</b>
box 7, folder 11	<b>Human I.Q. versus Nuclear I.Q. 1981</b>
box 7, folder 12	<b>Hunting Energy in Space 1972</b>
box 7, folder 13	<b>Hydromagnetic Effects on Interstellar Clouds</b>
box 7, folder 14	<b>Hydromagnetic Effects of the Magnetosphere 1963</b>
box 7, folder 15	<b>In Defense of the Band Structure 1982</b>
box 7, folder 16	<b>Interpretation of Observed Cosmic Microwave Background Radiation 1976 - 1977</b>
box 7, folder 17	<b>Interstellar Clouds and the Formation of Stars 1977</b>
box 7, folder 18	<b>Investigations on the Origin and Evolution of the Solar System</b>
box 7, folder 19	<b>Investigations on the Plasma Universe 1986 - 1987</b>
box 7, folder 20	<b>Is Hardware or Software Deciding the Progress of Science? 1982 - 1983</b>
box 7, folder 21	<b>Is the Cosmic Microwave Radiation a Cosmological Phenomenon? 1974</b>
box 7, folder 22	<b>Is the Universe Matter-Antimatter Symmetric? 1976 - 1977</b>
box 7, folder 23	<b>Jetstream, notes</b>
box 7, folder 24	<b>Jet Streams in Space 1969</b>
box 7, folder 25	<b>Julfrid I Californien 1981</b>
box 7, folder 26	<b>Karnkraftsdebatten 1976</b>
box 7, folder 27	<b>Kommentar Till Riksdagens Atomenergidebatt 1975</b>
box 7, folder 28	<b>Kosmik Stralning och Kosmiskt Stoff 1974</b>
box 7, folder 29	<b>Lecture at Delphi, October 14 1981</b>
box 7, folder 30	<b>Lerner. E., notes</b>
box 7, folder 31	<b>Literary Gazette 1971</b>
box 7, folder 32	<b>Local versus Global Plasma Theories 1985</b>
box 7, folder 33	<b>M-70 (LIVING ON THE THIRD PLANET), draft 1</b>

**Note**

Circa 1968, monograph published 1969.

box 7, folder 34	<b>M-70 (LIVING ON THE THIRD PLANET), draft 2 1969</b>
box 8, folder 1	<b>Magnetic Fields in Comet Tails 1974</b>
box 8, folder 2	<b>Magnetic Storms and Aurorae 1954</b>

## WRITINGS

### Writings of Alfven

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box 8, folder 3	<b>Magnetization of Comets 1974</b>
box 8, folder 4	<b>Magnetization of Celestial Bodies with Special Application to Primeval Earth 1974</b>
	<b>Note</b>
	Final words in title: and Moon.
box 8, folder 5	<b>Magnetization of Primeval Earth and Moon 1973</b>
box 8, folder 6	<b>Magnetohydrodynamics and the Thermonuclear Problem</b>
box 8, folder 7	<b>Magnetospheric Research in the History of the Solar System 1984</b>
box 8, folder 8	<b>Martian Moons 1982</b>
box 8, folder 9	<b>Mass Motions in Solar Flares and Related Phenomena</b>
	<b>Note</b>
	Circa 1969.
box 8, folder 10	<b>Matter-Antimatter Annihilation and Cosmic Gamma Ray Bursts 1976</b>
box 8, folder 11	<b>Matter-Antimatter Annihilation and Cosmology 1962</b>
box 8, folder 12	<b>Memoirs of a Dissident Scientist 1988</b>
box 8, folder 13	<b>Mendis, Asoka, on</b>
	<b>Note</b>
	Circa 1980.
box 8, folder 14	<b>Meteoride-Cometary Complex 1970</b>
box 8, folder 15	<b>Miljororelsen i Historiskt Perspektiv</b>
	<b>Note</b>
	Circa 1981.
box 8, folder 16	<b>Mission to an Asteroid 1970</b>
box 8, folder 17	<b>Model of the Plasma Universe 1986</b>
box 8, folder 18	<b>Moralists and World Affairs</b>
	<b>Note</b>
	Holographic notes.
box 8, folder 19	<b>Nature and Origin of Comets 1973</b>
box 8, folder 20	<b>Naturwissenschaft, Kernenergie und Rustung 1976</b>
box 8, folder 21	<b>Need for a World Energy Institute 1973</b>
box 8, folder 22	<b>Negative Diffusion and the Formation of Jet Streams 1973</b>
box 8, folder 23	<b>New Approach to Cosmic Plasma Physics 1978</b>
box 8, folder 24	<b>New Approach to the Theory of the Magnetosphere 1970 - 1971</b>
box 8, folder 25	<b>New Factors Regarding the Atomic Energy Programme 1971</b>
box 8, folder 26	<b>New Paradigm in Cosmic Plasma Physics 1981</b>
box 8, folder 27	<b>New Thinking Versus Old Thinking 1988</b>
box 8, folder 28	<b>Nuclear Controversy in the USA / Die Nukleare Kontroverse in den USA</b>
	<b>Note</b>
	Circa 1976.
box 8, folder 29	<b>Nuclear Energy 1977 1977</b>
box 8, folder 30	<b>Nuclear Energy in Sweden 1974</b>
box 8, folder 31	<b>Nuclear Initiative 1976</b>
box 8, folder 32	<b>Nurnberg Trial, on the 1983</b>
box 8, folder 33	<b>Observations and Hypotheses in Cosmology 1978</b>
box 8, folder 34	<b>Observing Versus Understanding 1988</b>

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box 8, folder 35 **On Frozen-in Field Lines and Field-Line Reconnection 1976**  
box 8, folder 36 **On Hierarchical Cosmology 1982**  
box 8, folder 37 **On Hierarchical Cosmology, references, charts, and notes 1982**  
box 8, folder 38 **On the Absence of 100 MeV Annihilation Gamma Rays 1978**  
box 8, folder 39 **On the Cosmogony of the Solar System I 1942**  
box 8, folder 40 **On the Cosmogony of the Solar System II 1943**  
box 8, folder 41 **On the Cosmology of the Solar System III 1946**  
box 8, folder 42 **On the Cosmology of the Solar System, notes 1942 - 1946**

#### Note

Holographic computations.

box 8, folder 43 **On the Electric Field Theory of Magnetic Storms and Aurorae 1954**  
box 8, folder 44 **On the Formation of Celestial Bodies 1964**  
box 8, folder 45 **On the Importance of Electric Fields in the Magnetosphere 1967**

#### Note

Final words of title: and Interplanetary Space

box 8, folder 46 **On the Nuclear Controversy 1975 - 1978**  
box 8, folder 47 **On the Origin of Comets 1974**  
box 9, folder 1 **On the Origin of Cosmic Magnetic Fields 1960**  
box 9, folder 2 **On the Origin of Cosmic Radiation 1954**  
box 9, folder 3 **On the Origin of the Asteroidal Belt 1981**  
box 9, folder 4 **On the Origin of the Asteroids 1964**  
box 9, folder 5 **On the Origin of the "Galactic" Cosmic Radiation 1982**  
box 9, folder 6 **On the Origin of the Solar System 1960 - 1967**  
box 9, folder 7 **On the Plasma-Planetesimal Transition in the Early Solar System 1982**  
box 9, folder 8 **On the Possibility of an Annihilation Origin for the Cosmic X-Ray Background 1976**  
box 9, folder 9 **On the Possible Existence of a "Transplanetary Region" 1970**  
box 9, folder 10 **On the Pugwash Priority of the Population Problem 1971**  
box 9, folder 11 **On the Significance of Magnetospheric Research for Progress in Astrophysics 1978**  
box 9, folder 12 **On the Theory of Magnetic Storms and Aurorae 1957**  
box 9, folder 13 **On the Theory of the Solar Corona 1974**  
box 9, folder 14 **Orbits of Celestial Bodies 1968**  
box 9, folder 15 **Origin and Evolution of the Earth-Moon System 1972**  
box 9, folder 16 **On the Origin of the Satellites and the Planets 1962**  
box 9, folder 17 **Origin and Evolution of the Solar System II, and Structure and Evolutionary 1970**

#### Note

Last words of title: History of the Solar System I.

box 9, folder 18 **Origin, Evolution and Present Structure of the Asteroid Region 1983**  
box 9, folder 19 **Origin of Cosmic Magnetic Fields 1979**  
box 9, folder 20 **Origin of Meteors and Comets 1969**  
box 9, folder 21 **ORIGIN OF THE SOLAR SYSTEM, version 1 1952**  
box 9, folder 22 **ORIGIN OF THE SOLAR SYSTEM, version 2 1976 - 1981**  
box 9, folder 23 **Pajntony-Robertson effect does not exist**

#### Note

Holographic draft.

box 9, folder 24 **Paket 1977**  
box 9, folder 25 **Paradigm Transition in Cosmic Plasma Physics 1982 - 1983**  
box 9, folder 26 **PHYSICS TODAY, Reply to the Questions of 1981**

**WRITINGS****Writings of Alfvén**

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box 9, folder 27	<b>Planets and Satellites</b>
	<b>Note</b>
	Includes holographic notes and reprint.
box 9, folder 28	<b>Plasma Astrophysics and the International Conferences on Phenomena in Ionized 1985</b>
	<b>Note</b>
	Last word in title: Gases.
box 9, folder 29	<b>Plasma Cosmology 1988</b>
box 9, folder 30	<b>Plasma Cosmology 1987</b>
box 9, folder 31	<b>Plasma Cosmology, charts and diagrams 1987</b>
box 9, folder 32	<b>Plasma Effects in the Formation, Evolution and present Configuration 1983</b>
	<b>Note</b>
	Final words of title: of the Saturnian Ring System.
box 9, folder 33	<b>Plasma in Laboratory and Space 1979</b>
box 9, folder 34	<b>Plasma Phase of the Evolution of the Solar System 1981</b>
box 9, folder 35	<b>Plasma Physics and Cosmology 1979</b>
box 10, folder 1	<b>Plasma Physics Applied to Cosmology 1971</b>
box 10, folder 2	<b>Plasma Physics, Space Research, and the origin of the Solar System 1970 - 1971</b>
	<b>Note</b>
	Nobel lecture.
box 10, folder 3	<b>Plasma Universe I 1986 - 1987</b>
box 10, folder 4	<b>Plasma Universe II 1986</b>
box 10, folder 5	<b>Plasma Universe, viewgraphs 1987</b>
box 10, folder 6	<b>Plasmaphysik und Kosmologie 1974</b>
box 10, folder 7	<b>Plasmas in the Laboratory and in Cosmos 1973 - 1974</b>
box 10, folder 8	<b>Plasmas in the Laboratory and in Space</b>
	<b>Note</b>
	Circa 1987, lecture at XXVIIth COSPAR Conference in Helsinki.
box 10, folder 9	<b>Plutonium—the Element of Death 1986</b>
box 10, folder 10	<b>Polywater and Black Holes 1981</b>
box 10, folder 11	<b>Poor Man's Guide to Celestial Mechanics 1970</b>
box 10, folder 12	<b>Population Explosion and Selective Old Age Pension 1985</b>
box 10, folder 13	<b>Preface to the Tale of the Big Computer 1981</b>
box 10, folder 14	<b>Problems of World Security, Environment, and Development 1971</b>
	<b>Note</b>
	21st Pugwash speech.
box 10, folder 15	<b>Pugwash and Its President 1974</b>
box 10, folder 16	<b>Pugwash Movement 1971</b>
box 10, folder 17	<b>Pugwash on the Population Problem 1971</b>
box 10, folder 18	<b>Pugwash Preface 1971 - 1972</b>
box 10, folder 19	<b>Pugwash Presidential Address 1971</b>
box 10, folder 20	<b>Quasi-Stellar Objects Menu 1979</b>
box 10, folder 21	<b>Re Goldreich's Paper 1974</b>
box 10, folder 22	<b>Reason and Emotion in the Nuclear Energy Debate 1980</b>
box 10, folder 23	<b>Recollection of Early Cosmic Ray Research 1985</b>

**WRITINGS****Writings of Alfven**

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box 10, folder 24	<b>Reconstructing the Evolutionary History of the Solar System With High Accuracy</b>
	<b>Note</b>
	Circa 1985.
box 10, folder 25	<b>Reconstruction of Solar System from Pioneer/Voyager Data 1983</b>
box 10, folder 26	<b>Relation Between Galactic Astrophysica and the Study of Small Bodies 1972</b>
	<b>Note</b>
	Final words in title: in the Solar System.
box 10, folder 27	<b>Relations Between Cosmic and Laboratory Plasma Physics 1972</b>
box 10, folder 28	<b>Remarks on the Rotation of a Magnetized Sphere With Application to Solar 1941</b>
	<b>Note</b>
	Final word in title: Rotation.
box 10, folder 29	<b>Report from the Fiji Peace Conference 1986</b>
box 10, folder 30	<b>Response of Hannes Alfven (regarding Bowie Medal) 1988</b>
box 10, folder 31	<b>Role of Plasma in the Primeval Nebula 1976 - 1977</b>
box 10, folder 32	<b>Roseland Mechanism Supporting the Grains in a Dusty Plasma 1984</b>
box 10, folder 33	<b>Rotation of Planets 1967</b>
box 11, folder 1	<b>Rymdforskningen och Var Varlsbild 1982</b>
box 11, folder 2	<b>Saturnian Rings 1975</b>
box 11, folder 3	<b>Saturnian Rings, infrared printout 1975</b>
box 11, folder 4	<b>Saturnian Rings and the History of the Solar System 1983</b>
box 11, folder 5	<b>Science and Energy 1977</b>
box 11, folder 6	<b>Science and Politics / Vetenskap och Politik 1971</b>
box 11, folder 7	<b>Science and Society / Vetenskap och Samhalle</b>
	<b>Note</b>
	Circa 1972.
box 11, folder 8	<b>Science and the Future of Europe 1978</b>
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box 11, folder 10	<b>Science, Progress, and Destruction 1978 - 1979</b>
box 11, folder 11	<b>Science, Technocracy, and the Politico-Economic Power 1972</b>
box 11, folder 12	<b>Scientific Objectives of Missions to Asteroids and Comets 1972</b>
box 11, folder 13	<b>Scientists in the Quest for Peace: A History of the Pugwash Conference 1972</b>
box 11, folder 14	<b>Second Approach to Cosmical Electrodynamics 1967</b>
box 11, folder 15	<b>Seeing or Understanding 1986</b>
box 11, folder 16	<b>Separation of Matter and Antimatter 1966</b>
box 11, folder 17	<b>Significance of Magnetospheric Research for Progress in Astrophysics 1978</b>
box 11, folder 18	<b>Simple Method of Calculating Orbits in Celestial Mechanics</b>
box 11, folder 19	<b>SIPRI and a World Energy Institute 1973</b>
box 11, folder 20	<b>Size Spectra 1969</b>
box 11, folder 21	<b>Small Bodies 1970</b>
	<b>Note</b>
	Chapter 3 of STRUCTURE AND EVOLUTIONARY HISTORY OF THE SOLAR SYSTEM.
box 11, folder 22	<b>Small Creation 1964</b>
box 11, folder 23	<b>Solar Magnetic Fields 1965</b>
box 11, folder 24	<b>Solar System History as Recorded in the Saturnian Ring Structure 1983</b>

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box 11, folder 25	<b>Solar-Terrestrial Relations 1983</b>  <b>Note</b>  Meeting of the Committee on Solar and Terrestrial Research, National Research Council, National Academy of Science, Washington D.C., November 16-17.
box 11, folder 26	<b>Solar Terrestrial Research (Insert) 1983</b>
box 11, folder 27	<b>Solar Wind--Magnetospheric Coupling</b>
box 11, folder 28	<b>Some Cosmic Physics Problems Where Double Layers May Be Important 1986</b>
box 11, folder 29	<b>Some Properties of Magnetospheric Neutral Surfaces 1968</b>
box 11, folder 30	<b>Some Remarks Concerning the Population Problem 1971</b>
box 11, folder 31	<b>Space Research Is Causing the Following Transitions in Geophysics</b>  <b>Note</b>  Last words of title: and Astrophysics.
box 11, folder 32	<b>Space Research and Cosmic Plasma Physics 1983</b>
box 11, folder 33	<b>Space Research and the New Approach to the Mechanics of Fluid Media in Cosmos 1984</b>
box 11, folder 34	<b>Space Research and the Origin, Evolution and Structure of the Solar System 1975</b>
box 12, folder 1	<b>Spacecraft Propulsion: New Methods 1972</b>
box 12, folder 2	<b>Spredte, notes</b>  <b>Note</b>  Holographic calculations and charts.
box 12, folder 3	<b>Stellesimal Accretion 1975</b>
box 12, folder 4	<b>Strategy for Explaining the Cosmogony of the Saturnian Ring 1984</b>
box 12, folder 5	<b>Strategy of Space Research 1972</b>
box 12, folder 6	<b>Structure and Age of the Saturnian Rings 1987</b>
box 12, folder 7	<b>STRUCTURE AND EVOLUTIONARY HISTORY OF THE SOLAR SYSTEM 1970</b>
box 12, folder 8	<b>STRUCTURE AND EVOLUTIONARY HISTORY OF THE SOLAR SYSTEM--reviews 1977</b>  <b>Note</b>  Reviews by Jean-Francois Malherbe in Revue Philosophique de Louvain and R.A. Lyttleton in Space Science Reviews.
box 12, folder 9	<b>Structure of Interplanetary and Transplanetary Space 1970</b>
box 12, folder 10	<b>Summary after Austen model</b>  <b>Note</b>  Holographic notes.
box 12, folder 11	<b>Sun's General Magnetic Field 1956</b>
box 12, folder 12	<b>Svensk Energipolitik 1974</b>
box 12, folder 13	<b>Symmetric Cosmology 1971</b>
box 12, folder 14	<b>Synthesis of the Hierarchical Model and the Symmetric Approaches to Cosmology 1982</b>
box 12, folder 15	<b>Tepidology and the Use of Fossil Fuel 1977</b>
box 12, folder 16	<b>Testimony on the California Nuclear Initiative 1976 - 1977</b>  <b>Note</b>  Co-authored by Harold Urey.
box 12, folder 17	<b>Theoretical Studies of Comets 1981</b>  <b>Note</b>  Asoka Mendis, co-principle investigator and co-author.

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- box 12, folder 18      **Theory of Magnetic Storms and of the Aurorae 1939**  
 box 12, folder 19      **There Was No Big Bang 1981**
- Note**
- Lecture notes.
- box 12, folder 20      **There Was No Big Bang, charts and graphs 1981**  
 box 12, folder 21      **Three Revolutions in Cosmical Science: From the Telescope to the Sputnik 1988**  
 box 12, folder 22      **Three revolutions in Cosmical Science: From the Telescope to the Sputnik, images 1988**  
 box 12, folder 23      **Three-Ring Circuit Model of the Magnetosphere 1980**
- Note**
- Co-authors McIlwain and Whipple.
- box 12, folder 24      **To Measure or Not to Measure--That is the Question 1986**  
 box 12, folder 25      **Transition from the Dusty Plasma State to the Planetsimal State of the Early 1981**
- Note**
- Last words in title: Solar System. Co-authored by Per Carlqvist.
- box 12, folder 26      **Two Alternatives for the History of the Moon 1969**
- Note**
- Co-authored by Gustaf Arrhenius.
- box 12, folder 27      **Two Patterns of Human Reproduction 1972**
- Note**
- Co-authored by B. Eriksson.
- box 12, folder 28      **U.N., Pugwash, and Population: A Visit to the United Nations, October 31 1972**  
 box 12, folder 29      **Vad ar Energi? 1975**  
 box 12, folder 30      **Vastgotabergens Dag 1976**  
 box 12, folder 31      **Veteran's Day Convocation: What Can a University Do? 1981**
- Note**
- Lecture notes.
- box 12, folder 32      **Viking in the Plasma Universe 1986 - 1987**  
 box 12, folder 33      **Vitaliserad Svensk Fredspolitik 1977**  
 box 12, folder 34      **Voyager 1 / Saturn Encounter and the Cosmogonic Shadow Effect 1981**  
 box 12, folder 35      **Voyager 1 / Saturn Encounter and the Cosmogonic Shadow Effect, figures 1981**  
 box 13, folder 1      **Voyager 1 / Saturn Encounter and the Early State of the Solar System 1981**
- Note**
- Lecture notes.
- box 13, folder 2      **Voyager Results and the Early History of the Solar System 1981**
- Note**
- Holographic notes and drafts.
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- box 13, folder 3      **Voyager Saturnian Ring Measurements and the Early History of the Solar System 1985**
- Note**
- Co-authors Breening, Axnas, and Lindqvist.
- box 13, folder 4      **War-Peace Dictionary 1985**
- box 13, folder 5      **What Experiments Should Be Selected for the Shuttle?**
- box 13, folder 6      **What Should Pugwash Discuss During the Coming Five-Year Period? 1972**
- box 13, folder 7      **Why is it Necessary to Get Rid of Nuclear Energy? 1987**
- box 13, folder 8      **World Energy Problem 1971**
- box 13, folder 9      **WORLDS-ANTIWORLDS; ANTIMATTER IN COSMOLOGY--review and author's response**
- Note**
- Circa 1966. Reviewers Henry Kyburg and Mazhar Hasan with Author-Reviewers Symposia.
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### Writings of Others

- box 13, folder 10      **Ahlen, S.P., et. al.**
- Note**
- An Antinucleus Detector with Unprecedented Collecting Power and Resolution.
- box 13, folder 11      **Alfven, Kerstin 1976 - 1977**
- Note**
- A Conversation.
- box 13, folder 12      **Arrhenius, Gustaf 1976**
- Note**
- Chemical Aspects of the Formation of the Solar System.
- box 13, folder 13      **Atkinson, G. 1983**
- Note**
- The Role of Currents in Plasma Redistribution. Contains holographic draft of Alfven note to Atkinson on cover page.
- box 13, folder 14      **Barber, N.F., et. al. 1958**
- Note**
- V.L.F. Reflections from the Ionosphere in the Presence of a Transverse Magnetic Field.
- box 13, folder 15      **Beichman, C.A., et. al. 1974**
- Note**
- Possible Evidence for a Large Magnetic Field in the Orion Infrared Nebula.
- box 13, folder 16      **Bergstrom, J., et. al. 1975**
- Note**
- Experiments on the Velocity Distribution of a Rotating Plasma.
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- box 13, folder 17      **Bonnevier, Bjorn 1964**
- Note**
- On the Early Development of the Metagalactic System.
- box 13, folder 18      **Charlier, C.V.L. 1924**
- Note**
- On the Structure of the Universe: Hitchcock Lectures at the University of California.
- box 13, folder 19      **Chincarini, Guido 1977**
- Note**
- Clumpy Structure of the Universe and General Field.
- box 13, folder 20      **Cole, K.D. 1976**
- Note**
- The Magnetospheric Dynamo for Geomagnetic Disturbance.
- box 13, folder 21      **Conine, Ernest 1981**
- Note**
- Safety Rules May Be Nuclear Industry's Salvation.
- box 13, folder 22      **De Vaucouleurs, G. 1972 - 1979**
- Note**
- Includes "The Velocity-Distance Relation and the Hubble Constant for Nearby Groups of Galaxies," "Supergalactic Studies. I. Supergalactic Distribution of the Nearest Galaxies," and more.
- box 13, folder 23      **Dessler, A. J. 1983**
- Note**
- The Evolution of Arguments Regarding the Existence of Field-Aligned Currents.
- box 13, folder 24      **Doub, William O. 1981**
- Note**
- Remarks by, before the Maryland-Delaware-District of Columbia Press Association.
- box 13, folder 25      **Falthammar, Carl-Gunne 1984 - 1987**
- Note**
- Includes "Astrophysical Significance of Observations and Experiments in the Earth's Magnetosphere," "Laboratory and Near-Earth Plasma as a Key to the Plasma Universe."
- box 13, folder 26      **Goldreich, Peter, et. al. 1972 - 1973**
- Note**
- Includes "The Formation of Planetesimals" and "Molecular Clouds".

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- box 13, folder 27      **Groth, Edward J., et. al. 1977**
- Note**
- The Clustering of Galaxies.
- box 13, folder 28      **Hast, Nils 1974**
- Note**
- The State of Stress in the Upper Part of the Earth's Crust as Determined By Measurements of Absolute Rock Stress.
- box 13, folder 29      **Johansson, Thomas B., et. al. 1983**
- Note**
- Sweden Beyond Oil: The Efficient Use of Energy.
- box 13, folder 30      **Joyce, R.R., et. al. 1975**
- Note**
- Further Infrared and Millimeter Observations of Markarian 231.
- box 13, folder 31      **Kron, Richard G. 1982**
- Note**
- The Most Distant Known Galaxies.
- box 13, folder 32      **Lehnert, Bosse, et. al. 1966**
- Note**
- Includes "Critical Voltage of Rotating Plasma" and "Neutral Gas Effects on Plasma Equilibrium and Stability".
- box 13, folder 33      **McNutt, R.L., et. al. 1979**
- Note**
- Departure from Rigid Corotation of Plasma in Jupiter's Dayside Magnetosphere.
- box 14, folder 1      **Mietteinen, Jorma K. 1973**
- Note**
- Recent Developments in Tactical Nuclear Weapons, Non-Proliferation and European Security.
- box 14, folder 2      **Murty, G.S. 1975**
- Note**
- A Theoretical Model for the Attenuation and Dispersion of Stoneley Waves at the Loosely Bonded Interface of Elastic Half Spaces.
- box 14, folder 3      **NASA Conference Publications 1986**
- Note**
- Double Layers in Astrophysics. For related materials see Series 6: Subject Files.

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- box 14, folder 4      **Orth, Charles D. 1976**
- Note**
- How to Continue Our Search For Antinuclei.
- box 14, folder 5      **Penner, S.S. 1975**
- Note**
- Testimony Prepared for the California Assembly Committee on Energy and Diminishing Materials on Alternative Energy Sources and Implications of "Nuclear Power Plant Initiative".
- box 14, folder 6      **Peratt, Anthony**
- Note**
- Includes "Evolution of the Plasma Universe; I. Double Radio Galaxies, Quasars, and Extragalactic Jets" and "Synchrotron Radiation from Double Layer Discharges in Double Radio Galaxies".
- box 14, folder 7      **Rubin, Vera C. 1979 - 1982**
- Note**
- Includes "Systematic Variations of Dynamical Properties Along the Hubble Spiral Sequence," "Systematic Dynamical Properties of Disk Galaxies," and Alfven's holographic commentary and graphs.
- box 14, folder 8      **Sandage, Allan, et. al. 1971 - 1974**
- Note**
- Includes "Limits on the Local Deviation of the Universe from a Homogeneous Model" and more.
- box 14, folder 9      **Schwarzschild, Bertram 1984 - 1986**
- Note**
- Articles from "Search and Discovery".
- box 14, folder 10      **Spitzer, Lyman, Jr. 1984**
- Note**
- Dynamics of Globular Clusters.
- box 14, folder 11      **Trombka, Jacob, et. al. 1978**
- Note**
- Gamma Ray Astrophysics: A New Look at the Universe.
- box 14, folder 12      **Weinberg, Alvin M. 1972**
- Note**
- Social Institutions and Nuclear Energy.
- box 14, folder 13      **White, Simon D.M. 1983**
- Note**
- Galactic Irregularities: Nature or Nurture.
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**Whiteoak, J.B. 1974**

**Note**

The Observed Characteristics of the Local Magnetic Field.

box 14, folder 15

**Wilkins, Maurice**

**Note**

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box 14, folder 16

**Williams, I.P.**

**Note**

A Review of Current Problems in Cosmology.

box 14, folder 17

**Wright, Edward L. 1982**

**Note**

Thermalization of Starlight by Elongated Grains: Could the Microwave Background Have Been Produced by Stars?

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box 14, folder 18 Unidentified Correspondents 1970 - 1982  
box 14, folder 19 Aamodt, Richard E. 1971  
box 14, folder 20 Abesamis, Romeo A. 1986  
box 14, folder 21 Abrahamson, Dean E. 1973  
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box 14, folder 24 Adam Hilger, Ltd., scientific, technical, and medical publishers 1985  
box 14, folder 25 Afzelius, Bjorn 1970  
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box 14, folder 27 Ahlen, Steven P. 1981  
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box 14, folder 29 Akasofu, Syun-lehi 1976 - 1985  
box 14, folder 30 Allan, R.R. 1969  
box 14, folder 31 Alle, T. 1969  
box 14, folder 32 Allen, James G. 1981  
box 14, folder 33 Almeda, Boris Raoul 1982  
box 14, folder 34 American Academy of Achievement 1971  
box 14, folder 35 American Geophysical Union 1982 - 1988  
box 14, folder 36 Amnesty International (Kastler, Yeo, Thiesbrummel) 1976 - 1977  
box 14, folder 37 Anders, Edward 1971  
box 14, folder 38 Anderson, Victor 1974 - 1982  
box 14, folder 39 Anmdersson, Leif 1971  
box 14, folder 40 Arnoldy, Roger 1988  
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box 14, folder 45 Attiyeh, Richard C. 1983  
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box 14, folder 48 Bachmann, Siegfried 1984  
box 14, folder 49 Backstrom, James R. 1985  
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box 14, folder 56 Barker, William A. 1970  
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box 15, folder 13	<b>Bjorkhem, Orjan 1974</b>
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box 15, folder 21	<b>Briones, Julian Romero 1975</b>
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box 15, folder 27	<b>BULLETIN OF THE ATOMIC SCIENTISTS 1977 - 1983</b>
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box 15, folder 34	<b>Carlqvist, Per 1977 - 1983</b>
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box 15, folder 38	<b>Chamberlin, Jane Mead 1980 - 1987</b>
box 15, folder 39	<b>Chang, Tom 1986</b>
box 15, folder 40	<b>Chapman, Robert D. 1982</b>
box 15, folder 41	<b>Chebotarvov, G.A. 1967</b>
box 15, folder 42	<b>Chemical and Engineering News 1970</b>
box 15, folder 43	<b>Clarebrough, L.M. 1982 - 1983</b>
box 15, folder 44	<b>Clarendon Press 1969</b>
box 15, folder 45	<b>Cole, Keith 1983</b>
box 15, folder 46	<b>Coleman, Paul J., Jr. 1971</b>
box 15, folder 47	<b>COLLIER'S ENCYCLOPEDIA 1970 - 1971</b>
box 15, folder 48	<b>Congress of World Unity 1974</b>
box 15, folder 49	<b>Connerney, J.E.P. 1985</b>
box 15, folder 50	<b>Coppi, Bruno 1985 - 1991</b>
box 15, folder 51	<b>Cornell University Center for Radiophysics and Space Research 1982</b>
box 15, folder 52	<b>Corrett, Y.L. 1970</b>
box 15, folder 53	<b>Cowling, T.G. 1970</b>
box 15, folder 54	<b>Cummings, David (Universities Space Research Association) 1984</b>
box 15, folder 55	<b>Cunningham, Clifford 1984</b>
box 15, folder 56	<b>Cuzzi, Jeffrey 1981</b>
box 15, folder 57	<b>Cvar, Frank R. 1982</b>
box 15, folder 58	<b>Czarnetzki, Uwe 1982 - 1983</b>
box 15, folder 59	<b>Dagbladet, Svenska 1975</b>
box 15, folder 60	<b>Dag Hammarsjold Center 1984 - 1985</b>
box 15, folder 61	<b>Dalgarno, A. 1974</b>
box 15, folder 62	<b>Danielsson, Bengt and Marie-Therese 1986</b>
box 15, folder 63	<b>Danielsson, Lars 1971</b>
box 15, folder 64	<b>Day, Amelia 1982</b>
box 15, folder 65	<b>De Berredo Carneiro, Paulo E. 1981</b>
box 15, folder 66	<b>De Carvalho, Manoel Joaquim, Jr. 1982</b>
box 15, folder 67	<b>De Groot, Mart (Irish Astronomical Journal) 1985</b>
box 15, folder 68	<b>De Jager, C. 1969 - 1984</b>
box 15, folder 69	<b>Dermott, S.F. 1975 - 1976</b>
box 15, folder 70	<b>Descours, R. 1974 - 1975</b>

**CORRESPONDENCE****General Correspondence**

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box 15, folder 71	<b>Dessler, Alex J. 1981 - 1989</b>
box 15, folder 72	<b>De Vaucouleurs, G. 1978 - 1983</b>
box 15, folder 73	<b>Devillers, Pierre 1972</b>
box 16, folder 1	<b>Die Naturwissenschaften 1970 - 1971</b>
box 16, folder 2	<b>Dilworth, Constance 1969</b>
box 16, folder 3	<b>Dolginov, A.Z. 1969</b>
box 16, folder 4	<b>Dollfus, Andouin 1972</b>
box 16, folder 5	<b>Donn, Bertram 1974</b>
box 16, folder 6	<b>Dungey, Jim G. 1977 - 1981</b>
box 16, folder 7	<b>Duthie, J. Graeme 1988 - 1989</b>
box 16, folder 8	<b>Dyck, H.M. 1970</b>
box 16, folder 9	<b>Dyring, Eric 1971</b>
box 16, folder 10	<b>Eardley, D.M. 1985</b>
box 16, folder 11	<b>EARTHSCAN 1977</b>
box 16, folder 12	<b>Edelson, Burton I. 1983 - 1985</b>
box 16, folder 13	<b>Edison, Theodore M. 1981</b>
box 16, folder 14	<b>Egeland, Alv 1987 - 1988</b>
box 16, folder 15	<b>Eklund, Sigvard 1974</b>
box 16, folder 16	<b>Ekspong, G.</b>
box 16, folder 17	<b>El-Ahraf, Amer 1986 - 1987</b>
box 16, folder 18	<b>Elie Wiesel Foundation for Humanity 1987 - 1988</b>
box 16, folder 19	<b>Elvius, Aina 1971 - 1974</b>
box 16, folder 20	<b>Englander, Alois G. (World Congress Alternatives and Environment) 1985 - 1988</b>
box 16, folder 21	<b>Eriksson, Bjorn and Karl-Erik 1981</b>
box 16, folder 22	<b>Eriksson, Lars 1982</b>
box 16, folder 23	<b>Esposito, Larry W. 1988 - 1989</b>
box 16, folder 24	<b>European Space Research Organisation 1969</b>
box 16, folder 25	<b>Fabre, Jean 1981 - 1984</b>
box 16, folder 26	<b>Faeth, Michael 1982</b>
box 16, folder 27	<b>Fahlesson, Ulf 1971 - 1972</b>
box 16, folder 28	<b>Falkman, Kaj 1982</b>
box 16, folder 29	<b>Falldin, Torbjorn 1974 - 1976</b>
box 16, folder 30	<b>Falthammar, Carl-Gunne, folder 1 1969 - 1978</b>
box 16, folder 31	<b>Falthammar, Carl-Gunne, folder 2 1980 - 1991</b>
box 16, folder 32	<b>Fan, C.Y. 1976</b>
box 16, folder 33	<b>Fang, Z.Z. (Chinese Academy of Sciences) 1985</b>
box 16, folder 34	<b>Feld, Bernard 1973 - 1977</b>
box 16, folder 35	<b>Fenyves, Ervin J. 1988</b>
box 16, folder 36	<b>Ferrin, Ignacio 1976</b>
box 16, folder 37	<b>Feynman, J. 1986</b>
box 16, folder 38	<b>Finkel, Jon Darius 1971</b>
box 16, folder 39	<b>Fisher, David E. 1984</b>
box 16, folder 40	<b>Fisk, L.A. 1991</b>
box 16, folder 41	<b>Fiskaregaten, Birgitta 1980</b>
box 16, folder 42	<b>Florman, Eva 1981 - 1988</b>
box 16, folder 43	<b>Food and Disarmament International 1986 - 1987</b>
box 16, folder 44	<b>Formisano, Vittorio 1973 - 1974</b>
box 16, folder 45	<b>Forrest, William J. 1981</b>
box 16, folder 46	<b>Forselius, Margareta 1972</b>
box 16, folder 47	<b>Foundation of Physics (Wolfgang Yourgran) 1978</b>
box 16, folder 48	<b>Fowler, T.K. 1970</b>
box 16, folder 49	<b>Frankenhaeuser, Marianne 1985</b>
box 16, folder 50	<b>Freeman, John 1971 - 1981</b>
box 16, folder 51	<b>Fried, Burton D. 1988</b>
box 16, folder 52	<b>Friedman, Herbert 1983 - 1984</b>
box 17, folder 1	<b>Frisch, Otto R. 1978</b>
box 17, folder 2	<b>Fu, Z.F. and Lee, Lou-Chang 1985</b>
box 17, folder 3	<b>Funke, Goste W. 1969</b>

**CORRESPONDENCE****General Correspondence**

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box 17, folder 4	<b>Gahrton, Per 1981</b>
box 17, folder 5	<b>Galkin, L.N. 1984</b>
box 17, folder 6	<b>Gardner, David Pierpont 1985</b>
box 17, folder 7	<b>Gehrels, Tom 1972 - 1985</b>
box 17, folder 8	<b>Geltman, Sydney 1981</b>
box 17, folder 9	<b>Geophysical Research Letters 1983</b>
box 17, folder 10	<b>Gerstenkorn, Horst 1969 - 1970</b>
box 17, folder 11	<b>Giacconi, Riccardo 1984</b>
box 17, folder 12	<b>Giacosa, V. 1971</b>
box 17, folder 13	<b>Gillberg, Bjorn 1975</b>
box 17, folder 14	<b>Gillmor, C. Stewart 1982 - 1983</b>
box 17, folder 15	<b>Ginzberg, V.L. 1985</b>
box 17, folder 16	<b>Gladyshev, Georgy 1981</b>
box 17, folder 17	<b>Gofman, John W. (Committee for Nuclear Responsibility) 1976 - 1981</b>
box 17, folder 18	<b>Goldsworthy, F.A. 1970</b>
box 17, folder 19	<b>Golanov, L. 1982</b>
box 17, folder 20	<b>Goldberg, Joseph 1982</b>
box 17, folder 21	<b>Gratzel, H. 1971</b>
box 17, folder 22	<b>Greber, Bettie 1981</b>
box 17, folder 23	<b>Greenberg, Eldon V.C. 1974</b>
box 17, folder 24	<b>Greve, Tim 1975</b>
box 17, folder 25	<b>Guggenheim Memorial Foundation 1981</b>
box 17, folder 26	<b>Gullberg, Ingvar 1981 - 1982</b>
box 17, folder 27	<b>Gupta, R.P. 1971</b>
box 17, folder 28	<b>Haerendel, G. 1982 - 1983</b>
box 17, folder 29	<b>Haines, M.G. 1982</b>
box 17, folder 30	<b>Hambraeus, Birgitta 1972 - 1973</b>
box 17, folder 31	<b>Han, Don-Sheng 1988</b>
box 17, folder 32	<b>Hara, Ken'nosuke 1976</b>
box 17, folder 33	<b>Haro, Guillermo 1981</b>
box 17, folder 34	<b>Harris, Alan W. 1982</b>
box 17, folder 35	<b>Harrod, Annemarie 1982 - 1983</b>
box 17, folder 36	<b>Hasegawa, Akira 1974</b>
box 17, folder 37	<b>Hatch, E.N. 1971</b>
box 17, folder 38	<b>Havemann, Hans 1980 - 1982</b>
box 17, folder 39	<b>Havens, W.W. 1970 - 1971</b>
box 17, folder 40	<b>Heden, Carl-Goran 1972</b>
box 17, folder 41	<b>Hegardt, Margareta 1983</b>
box 17, folder 42	<b>Heikkila, Walter J. 1976 - 1986</b>
box 17, folder 43	<b>Henon, Michael 1976 - 1977</b>
box 17, folder 44	<b>Herlofson, Nicolai 1972 - 1991</b>
box 17, folder 45	<b>Hewish, A. 1978</b>
box 17, folder 46	<b>Hill, Tom W. 1982 - 1988</b>
box 17, folder 47	<b>Hines, C.O. 1970</b>
box 17, folder 48	<b>Hirschbein, Ron 1985</b>
box 17, folder 50	<b>Holberg, Jay 1983 - 1984</b>
box 17, folder 51	<b>Holder, D.W. 1976</b>
box 17, folder 52	<b>Holtby, Mark 1973</b>
box 17, folder 53	<b>Hoppe, Gunnar 1971 - 1981</b>
box 17, folder 54	<b>Hora, Heinrich 1981 - 1989</b>
box 17, folder 55	<b>Horedt, Gp. 1975</b>
box 17, folder 56	<b>Houghton Mifflin Company 1970 - 1971</b>
box 17, folder 57	<b>Houpis, H.L.F. 1986 - 1987</b>
box 17, folder 58	<b>Hudson, Mary K. 1986 - 1987</b>
box 17, folder 59	<b>Hoglund, Bertil 1969</b>
box 17, folder 59	<b>Hunten, Don 1984</b>
box 17, folder 60	<b>Huntington, Morgan G. 1974</b>
box 17, folder 61	<b>Husimi, K. 1971</b>

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**CORRESPONDENCE****General Correspondence**

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box 17, folder 62	<b>Hutchinson, Lydia 1965 - 1969</b>
box 17, folder 63	<b>ICARUS 1970 - 1971</b>
box 17, folder 64	<b>IEEE Fellow Committee 1989</b>
box 17, folder 65	<b>Igenbergs, Eduard 1973</b>
box 17, folder 66	<b>Impact of Science on Society 1971</b>
box 17, folder 67	<b>Imperial College of Science and Technololgy, Cosmic Ray Research Laboratory 1980</b>
box 17, folder 68	<b>Indian National Science Academy 1985</b>
box 17, folder 69	<b>Institute of Physics 1971</b>
box 18, folder 1	<b>International Academy of Astronautics 1985</b>
box 18, folder 2	<b>International Union of Pure and Applied Physics 1969</b>
box 18, folder 3	<b>Intriligator, Devrie 1984 - 1985</b>
box 18, folder 4	<b>Ip, Wing-Huen 1974 - 1983</b>
box 18, folder 5	<b>Isley, Philip (World Constitution and Parliament Association) 1982</b>
box 18, folder 6	<b>Janzen, Assen 1971</b>
box 18, folder 7	<b>Jet Propulsion Laboratory 1983</b>
box 18, folder 8	<b>Johansson, Gunnar 1973 - 1982</b>
box 18, folder 9	<b>Johns Hopkins APL Technical Digest 1984</b>
box 18, folder 10	<b>Jornal Abertura Cultural (Otto Buchsbaum) 1976</b>
box 18, folder 11	<b>Julku, Kyosti 1970</b>
box 18, folder 12	<b>Kaario, Irmeli 1974</b>
box 18, folder 13	<b>Kalyanaraman, S. 1985</b>
box 18, folder 14	<b>Kandorfer, Pierre 1985</b>
box 18, folder 15	<b>Kantrowitz, Arthur 1973</b>
box 18, folder 16	<b>Kapitza, P.L. 1983</b>
box 18, folder 17	<b>Kapitza, S. 1985</b>
box 18, folder 18	<b>Kaplan, Joseph 1981</b>
box 18, folder 19	<b>Karanjai, S. 1974</b>
box 18, folder 20	<b>Kastel, Dean 1987</b>
box 18, folder 21	<b>Keldysh, M.V. 1970</b>
box 18, folder 22	<b>Kendall, Henry W. 1982</b>
box 18, folder 23	<b>Keppel, John and David 1979 - 1982</b>
box 18, folder 24	<b>Kiang, T. 1981 - 1982</b>
box 18, folder 25	<b>King, Grant 1974</b>
box 18, folder 26	<b>Kivelson, Margaret G. 1981 - 1984</b>
box 18, folder 27	<b>Kjar, Kurt 1982</b>
box 18, folder 28	<b>Kluwer Academic Publishers 1988</b>
box 18, folder 29	<b>Koelle, H.H. 1971</b>
box 18, folder 30	<b>Koch, William H. (American Institute of Physics) 1970</b>
box 18, folder 31	<b>Komatsu, Michio 1974</b>
box 18, folder 32	<b>Konstantinov, B.P. 1968</b>
box 18, folder 33	<b>Kopal, Zdenek 1969 - 1982</b>
box 18, folder 34	<b>Kornacki, Alan S. 1984</b>
box 18, folder 35	<b>Kossiakoff, A. 1974</b>
box 18, folder 36	<b>Krimgis, S.M. 1982 - 1983</b>
box 18, folder 37	<b>Kristoferson, Lars 1971 - 1974</b>
box 18, folder 38	<b>Kroll, Norman M. 1985</b>
box 18, folder 39	<b>Kumlin, Bo 1975</b>
box 18, folder 40	<b>Kungl. Vetenskapsakademien Nobelkommitten For Fysik 1969 - 1971</b>
box 18, folder 41	<b>Kuroda, P.K. 1973</b>
box 18, folder 42	<b>Laclavere, George 1987</b>
box 18, folder 43	<b>Lagerkvist, Claes-Ingvar and Rickman, Hans 1984</b>
box 18, folder 44	<b>Lal, D. 1974 - 1975</b>
box 18, folder 45	<b>Lamm, Uno 1977</b>
box 18, folder 46	<b>Lane, Harold H. 1974</b>
box 18, folder 47	<b>Lang, Istvan 1985</b>
box 18, folder 48	<b>Lang, Kenneth R. 1978</b>
box 18, folder 49	<b>Langmuir, David B. 1970 - 1971</b>
box 18, folder 50	<b>Lanzerotti, Louis J. 1984 - 1985</b>

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## CORRESPONDENCE

### General Correspondence

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box 18, folder 51 **Larsen, V. Sylvest 1968**  
box 18, folder 52 **Laurent, Bertel 1978**  
box 18, folder 53 **Lazarus, A.J. 1982**  
box 18, folder 54 **Lee, Lou-Chang 1984**  
box 18, folder 55 **Legay, Jean-Marie 1982**  
box 18, folder 56 **Lehnert, Bosse 1965 - 1983**  
box 18, folder 57 **Lemaire, J. 1977**  
box 18, folder 58 **Lerner, Eric J. 1986**  
box 18, folder 59 **Levi, J.D. 1988**  
box 18, folder 60 **Lewis, W. Bennett 1973 - 1975**  
box 18, folder 61 **Lind, Rolf 1973**  
box 18, folder 62 **Lindberg, Lennart 1982**  
box 18, folder 63 **Lindblad, Bertil-Anders 1969**  
box 18, folder 64 **Lindblad, Per Olof 1969**  
box 18, folder 65 **Lindsay, Lola 1976**  
box 18, folder 66 **Linner, Birgitta 1972**  
box 18, folder 67 **LITERARY GAZETTE 1971**  
box 18, folder 68 **Livingston, Robert E. 1984**  
box 18, folder 69 **Loden, Lars Olof 1969 - 1970**  
box 18, folder 70 **Lomadze, R.D. 1985**  
box 18, folder 71 **Lohmann, Adolf 1977**  
box 18, folder 72 **Lominadze, J.G. 1985**  
box 18, folder 73 **Lowes, F.J. 1969**  
box 19, folder 1 **Lunar and Planetary Institute / Lunar Science Institute 1970 - 1982**  
box 19, folder 2 **Lundberg, Bo 1971**  
box 19, folder 3 **Lyttle, Cecil 1982**  
box 19, folder 4 **Lyttleton, R.A. 1971**  
box 19, folder 5 **Major, F.G. 1973**  
box 19, folder 6 **Malek, Zdenek 1971 - 1972**  
box 19, folder 7 **Marcus, Richard E. 1982 - 1983**  
box 19, folder 8 **Markanton Press (Margery Kempe) 1984**  
box 19, folder 9 **Marklund, G. 1981**  
box 19, folder 10 **Martin, Robert 1984 - 1985**  
box 19, folder 11 **Mass, Jeannette P. 1986**  
box 19, folder 12 **Massachusetts Institute of Technology, Center for Space Research 1987**

#### Note

Tom Chang, Director.

box 19, folder 13 **Massachusetts Voice of Energy 1981**  
box 19, folder 14 **Masuda, Akimasa 1976**  
box 19, folder 15 **Matsuura, Oscar T. 1971**  
box 19, folder 16 **Matthews, Mildred S. 1978**  
box 19, folder 17 **May, Henry D. 1982 - 1986**  
box 19, folder 18 **McCaffrey, Stanley 1986**  
box 19, folder 19 **McGowan, J. William 1970**  
box 19, folder 20 **Meadox, John 1970**  
box 19, folder 21 **Mendis, Asoka 1984**  
box 19, folder 22 **Meng-pi, Hao 1971 - 1972**  
box 19, folder 23 **Meszaros Wild, Esteban 1982 - 1983**  
box 19, folder 24 **Michelsen, Poul 1982 - 1983**  
box 19, folder 25 **Miettinen, Jorma K. 1973 - 1974**  
box 19, folder 26 **Miller, L. Keith 1982**  
box 19, folder 27 **Millonshchikov, M.D. 1972**  
box 19, folder 28 **Millman, Peter M. 1970**  
box 19, folder 29 **Milstein, Laurence B. 1988**  
box 19, folder 30 **Mirzoyan, L.V. 1983 - 1984**  
box 19, folder 31 **Mitra, Sanjit K. 1982**

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## CORRESPONDENCE

### General Correspondence

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box 19, folder 32 **Mitra, Ved 1969**  
box 19, folder 33 **Mobius, E. 1978**  
box 19, folder 34 **Molik, Petr 1982**  
box 19, folder 35 **Moritz, Barry K. 1969**  
box 19, folder 36 **Morrison, P.R. 1976**  
box 19, folder 37 **Moussas, Xen 1985**  
box 19, folder 38 **Moutsoulas, Michelatti 1982**  
box 19, folder 39 **Murty, Gurajada S. 1969 - 1989**  
box 19, folder 40 **Myhra, Anton 1976**  
box 19, folder 41 **Nader, Ralph 1973**  
box 19, folder 42 **Nagarajan, S. 1970**  
box 19, folder 43 **Nagy, Andrew F. (reviews of Geophysics and Space Science) 1983**  
box 19, folder 44 **Nalbandian, Carolyn 1974**  
box 19, folder 45 **National Academy of Sciences (Frank Press, President) 1984 - 1986**  
box 19, folder 46 **National Council of the Churches of Christ 1975 - 1976**  
box 19, folder 47 **National Research Council 1988**

#### Note

Commission on Physical Sciences, Mathematics, and Resources.

box 19, folder 48 **National Research Council Space Science Board 1980**  
box 19, folder 49 **National Science Foundation 1979 - 1986**  
box 19, folder 50 **NATURE 1969 - 1985**  
box 19, folder 51 **Nefkens, B.M.K. 1983**  
box 19, folder 52 **Nemec, Theodor 1970**  
box 19, folder 53 **Nesterovitch, E.I. 1970**  
box 19, folder 54 **Neubauer, F.M. 1986**  
box 19, folder 55 **Newkirk, Gordon, Jr. 1973 - 1974**  
box 19, folder 56 **NEW YORK TIMES 1980**  
box 19, folder 57 **Nicholas, James 1984**  
box 19, folder 58 **Nihlen, John 1975**  
box 19, folder 59 **Nilsson, Sam 1982**  
box 19, folder 60 **Nixon, Alan C. 1974**  
box 19, folder 61 **Nobel Laureates 1987**  
box 19, folder 62 **Norbey, Lars**  
box 19, folder 63 **North Holland Publishing Company 1969**  
box 19, folder 64 **Norton, Kent 1982**  
box 19, folder 65 **Nuclear Age Peace Foundation 1986**  
box 19, folder 66 **Obayashi, Tatsuzo 1970 - 1980**  
box 19, folder 67 **Oldeshaw, Robert L. 1982 - 1983**  
box 20, folder 1 **O'Reilly, William 1984**  
box 20, folder 2 **O'Rourke, Ray 1986**  
box 20, folder 3 **Ortner, Johannes 1987**  
box 20, folder 4 **Pal, B.P. 1975**  
box 20, folder 5 **Palme, Olof and Lisbeth 1985 - 1986**  
box 20, folder 6 **Pandya, S.P. 1975**  
box 20, folder 7 **Parks, George K. 1973 - 1985**  
box 20, folder 8 **Paschkis, Victor 1970**  
box 20, folder 9 **Pauling, Linus 1982 - 1985**  
box 20, folder 10 **Paulus, Kurt 1985 - 1986**  
box 20, folder 11 **Peacock, Dennis S. 1978 - 1984**  
box 20, folder 12 **Pearce, Roy Harvey 1973**  
box 20, folder 13 **Peccei, Aurelio (Stockholm International Peace Research Institute) 1976**  
box 20, folder 14 **Pecker, Jean-Claude 1981**  
box 20, folder 15 **Peratt, Anthony L. 1983 - 1989**  
box 20, folder 16 **Perek, L. 1970**  
box 20, folder 17 **Perry, John S. 1985**  
box 20, folder 18 **Persson, Hans 1971**

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**CORRESPONDENCE****General Correspondence**

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box 20, folder 19	<b>Persson, Karl B. 1971</b>
box 20, folder 20	<b>Peters, Bernard 1970 - 1982</b>
box 20, folder 21	<b>Peterson, L.E. 1982</b>
box 20, folder 22	<b>Philosophy Forum 1970 - 1971</b>
box 20, folder 23	<b>Physica Scripta 1982</b>
box 20, folder 24	<b>PHYSICS TODAY 1970 - 1986</b>
box 20, folder 25	<b>Piel, Alexander 1978</b>
box 20, folder 26	<b>Pikelner, S.B. 1986</b>
box 20, folder 27	<b>Planetary and Space Science 1985</b>
box 20, folder 28	<b>PLENUM, the language of science 1976</b>
box 20, folder 29	<b>Pneuman, G.W. 1974</b>
box 20, folder 30	<b>Porensky, V. 1968</b>
box 20, folder 31	<b>Porter, Arthur 1977</b>
box 20, folder 32	<b>Potemra, Thomas A. 1982 - 1986</b>
box 20, folder 33	<b>Pratap, R. 1973 - 1977</b>
box 20, folder 34	<b>Rabinowitch, Eugene 1971</b>
box 20, folder 35	<b>Radhakrishnan, V. (Raman Research Institute, Director) 1984</b>
box 20, folder 36	<b>Radiation Physics Laboratory, Lockheed Missiles and Space Company 1970</b>
box 20, folder 37	<b>Raggi, Roberto 1977</b>
box 20, folder 38	<b>Rahman, Inam 1973</b>
box 20, folder 39	<b>Rallis, Georgio 1986</b>
box 20, folder 40	<b>Reeves, Hubert 1971</b>
box 20, folder 41	<b>Rehn, Gosta K. 1969</b>
box 20, folder 42	<b>Reidel, D. Publishing Company 1971 - 1986</b>
box 20, folder 43	<b>Reuterskiold, Clas 1987</b>
box 20, folder 44	<b>Rice University, Department of Space Physics and Astronomy 1988</b>
box 20, folder 45	<b>Rickman, Hans 1985</b>
box 20, folder 46	<b>Ringwood, A.E. 1981</b>
box 20, folder 47	<b>Roberts, Paul H. (GEOPHYSICAL AND ASTROPHYSICAL FLUID DYNAMICS) 1983</b>
box 20, folder 48	<b>Robinson, L.C. 1970 - 1971</b>
box 20, folder 49	<b>Roederer, Juan 1980</b>
box 20, folder 50	<b>Ron, Amiram 1980</b>
box 20, folder 51	<b>Rosen, Paul A. 1984</b>
box 20, folder 52	<b>Rosen, Stephen 1973</b>
box 20, folder 53	<b>Rosenbluth, Marshall N. 1982</b>
box 20, folder 54	<b>Rotblat, Joseph 1970 - 1974</b>
box 20, folder 55	<b>Royal Swedish Academy of Sciences 1988</b>
box 20, folder 56	<b>Rubey, William W. 1971</b>
box 20, folder 57	<b>Rubin 1982</b>
box 20, folder 58	<b>Runcorn, S.K. 1970 - 1985</b>
box 20, folder 59	<b>Russell, C.T. 1983</b>
box 20, folder 60	<b>Rydbeck, Olle 1969 - 1976</b>
box 20, folder 61	<b>Sadoulet, Bernard 1977</b>
box 20, folder 62	<b>Sagdeev, R.Z. 1977 - 1987</b>
box 20, folder 63	<b>Sanchez, Francisco 1985</b>
box 20, folder 64	<b>Sarabhai, Vikram A. 1969</b>
box 20, folder 65	<b>Sato, Hiroshi 1971</b>
box 20, folder 66	<b>Scarf, Frederick L. 1972</b>
box 20, folder 67	<b>Schatzman, E. 1971</b>
box 20, folder 68	<b>Schiemann, Heinrich 1970 - 1971</b>
box 20, folder 69	<b>Schindler, Karl (European Space Research Institute) 1971</b>
box 20, folder 70	<b>Scholl, Hans 1971</b>
box 20, folder 71	<b>Schroder, Wilfried 1983 - 1986</b>
box 21, folder 1	<b>Schulz, Michael 1984</b>
box 21, folder 2	<b>SCIENCE 1977 - 1986</b>
box 21, folder 3	<b>SCIENCE AND NATURE 1987</b>
box 21, folder 4	<b>SCIENTIFIC AMERICAN (Jonathon Piel, President) 1984 - 1988</b>
box 21, folder 5	<b>Scientific American Books (Linda Chaput, President and Editor) 1985</b>

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## CORRESPONDENCE

### General Correspondence

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box 21, folder 6 **Segatz, E. 1982**  
box 21, folder 7 **Seyfert, Carl 1977**  
box 21, folder 8 **Segeberg, Fredrik 1976**  
box 21, folder 9 **Shawhan, Stanley D. (NASA) 1988 - 1989**

#### Note

For more information regarding Shawhan, see NASA Subject Files (Series 6), 1989.

box 21, folder 10 **Shore, Joseph N. 1982**  
box 21, folder 11 **Shubert, Richard 1981**  
box 21, folder 12 **Siegbahn, Kai 1970**  
box 21, folder 13 **Sieve, Anne (International Planned Parenthood Federation) 1971**  
box 21, folder 14 **Silevitch, Michael B. 1989**  
box 21, folder 15 **Simpson, John A. 1974**  
box 21, folder 16 **Sindoni, Elio 1985**  
box 21, folder 17 **Singer, S. Fred 1971**  
box 21, folder 18 **Singer, Andre 1987**  
box 21, folder 19 **Singwi, Kundan S. 1971**  
box 21, folder 20 **Sitte, Kurt 1969**  
box 21, folder 21 **Skryabin, T. 1986**  
box 21, folder 22 **Smith, Phil B. 1973 - 1977**  
box 21, folder 23 **Smoluchowski, Roman 1984**  
box 21, folder 24 **Soka Gakkai 1986 - 1991**  
box 21, folder 25 **Somerville, John 1983**  
box 21, folder 26 **Soppelsa, Jacques 1983**  
box 21, folder 27 **Sonnerup, Bengt 1976 - 1983**  
box 21, folder 28 **Soucek, Ladislav 1988 - 1989**  
box 21, folder 29 **Space Research Laboratory; Astrophysics and Space Science Laboratory 1978 - 1980**  
box 21, folder 30 **Sparring, Ake 1971**  
box 21, folder 31 **Spitzer, Lyman, Jr. 1985**  
box 21, folder 32 **Springer-Verlag Publishers (Jeffrey Robbins, Physics Editor)- 1987**  
box 21, folder 33 **Srego, K. 1984**  
box 21, folder 34 **Srivastava, K.M. 1971**  
box 21, folder 35 **Stafford, G.H. 1985**  
box 21, folder 36 **Steenbeck, Max 1968**  
box 21, folder 37 **Sternberg, Hakan 1984**  
box 21, folder 38 **Stevens, Roger E.F. 1988**  
box 21, folder 39 **Stiller, H. 1981 - 1982**  
box 21, folder 40 **Stoller, Allan A. 1983**  
box 21, folder 41 **Stone, Edward 1982**  
box 21, folder 42 **Storey, L.R.O. 1983**  
box 21, folder 43 **Stowell, Christopher H. 1981**

#### Note

Californians for a bilateral nuclear arms FREEZE.

box 21, folder 44 **Strong, Maurice 1972**  
box 21, folder 45 **Suhrkamp Verlag 1970 - 1982**  
box 21, folder 46 **Sumner, John S. 1971**  
box 21, folder 47 **Sundstrom, Eva 1983**  
box 21, folder 48 **Supek, Ivan 1970 - 1987**  
box 21, folder 49 **Svenska Nationalkommitten for Fysik 1969**  
box 21, folder 50 **Swamy, Krishna 1985**  
box 21, folder 51 **SYNTEK Engineering and Computer Systems Inc. 1988**

#### Note

Robert D. Regan.

CORRESPONDENCE

General Correspondence

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box 21, folder 52 **Szego, K. 1984**  
box 21, folder 53 **Taras, Ginny 1982**  
box 21, folder 54 **Tajima, Toshi 1982 - 1985**  
box 21, folder 55 **Teichmann, H. D. 1970**  
box 21, folder 56 **Temmen, Luder 1973 - 1974**  
box 21, folder 57 **Thames and Hudson LTD. 1970**  
box 21, folder 58 **Thill, G. 1976**  
box 21, folder 59 **Thomas, Lowell 1972**

**Note**

Chairman, Golden Plate Awards Committee.

box 21, folder 60 **Tommasi, Luiz Roberto 1976**  
box 21, folder 61 **Trautmann, Ludwig 1976 - 1977**  
box 21, folder 62 **Treder, Hans-Jurgen 1981 - 1982**  
box 21, folder 63 **Trulsen, Jan 1971 - 1975**  
box 21, folder 64 **Tschenett, Kurt 1981 - 1982**  
box 21, folder 65 **Tsikoudi, Vassiliki 1978**  
box 21, folder 66 **Uberoi, C. 1981**  
box 21, folder 67 **Umschau in Wissenschaft und Technik 1970**  
box 21, folder 68 **Underwood, James R., Jr. 1987 - 1988**  
box 21, folder 69 **Union of Concerned Scientists 1981**  
box 21, folder 70 **United Nations Association of Great Britain and Northern Ireland 1985**  
box 21, folder 71 **Universita di Milano (Sindoni and Lominadze) 1985 - 1986**  
box 21, folder 72 **Universities Press (Belfast) LTD. 1988**  
box 21, folder 73 **Universities Space Research Association, Lunar and Planetary Institute 1981**  
box 21, folder 74 **University of California, San Diego, Center for Astrophysics and Space Sciences 1988**  
box 21, folder 75 **University of Manchester, Department of Astronomy 1988**  
box 22, folder 1 **University of Washington, Geophysics Program, Space Sciences Division**  
box 22, folder 2 **Unsold, Albrecht 1969**  
box 22, folder 3 **USSR Academy of Sciences, Committee for Soviet Scientists for Peace 1986**

**Note**

Scientific Research Council on Peace and Disarmament.

box 22, folder 4 **Van Allen, J.A. 1980 - 1984**  
box 22, folder 5 **Vandenplas, Paul 1971**  
box 22, folder 6 **Van Der Waaij, Sofie (SOLAR PHYSICS) 1985**  
box 22, folder 7 **Van Houten, E.J. 1969**  
box 22, folder 8 **Van Lutsenberg Mass, Adriaan 1973**  
box 22, folder 9 **Van't Woudt, Bessel D. 1985**  
box 22, folder 10 **Vernov, S.N. 1969 - 1970**  
box 22, folder 11 **Vikbladh, Kerstin 1972 - 1983**  
box 22, folder 12 **Vincent, James R. 1976 - 1977**  
box 22, folder 13 **Vondrak, Richard R. 1982**  
box 22, folder 14 **Von Engel, A. 1970 - 1971**  
box 22, folder 15 **Von Erichsen, Lothar C. 1973**  
box 22, folder 16 **Von Strassburger, Klaus 1981**  
box 22, folder 17 **Von Troschke, Harald 1986**  
box 22, folder 18 **Vorpahl, Joan A. 1974**  
box 22, folder 19 **W.H. Freeman and Company 1971 - 1984**  
box 22, folder 20 **Wahlgren, Erik 1970**  
box 22, folder 21 **Walmsley, Melvyn 1985**  
box 22, folder 22 **Walter, Heinrich (International Media Productions) 1988**  
box 22, folder 23 **Webster, William E. 1971**  
box 22, folder 24 **Wehinger, Peter A. and Wyckhoff, Susan 1982**

## CORRESPONDENCE

### General Correspondence

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box 22, folder 25	<b>Weissglas, Peter 1988</b>
box 22, folder 26	<b>Weizmann Science Press 1971</b>
box 22, folder 27	<b>Welkins, Maurice 1987</b>
box 22, folder 28	<b>Wergeland, Harald 1976</b>
box 22, folder 29	<b>Weyant, R.G. 1973</b>
box 22, folder 30	<b>Wheeler, John Archibald 1982</b>
box 22, folder 31	<b>Whipple, Eldon C.</b>
box 22, folder 32	<b>Wijkander, B. 1970</b>
box 22, folder 33	<b>Wilcox, John M. 1972 - 1974</b>
box 22, folder 34	<b>Wiley Interscience 1971 - 1977</b>
box 22, folder 35	<b>William Morrow and Company Inc. 1972</b>
box 22, folder 36	<b>Wilson, J.G. 1971</b>
box 22, folder 37	<b>Wood, Patricia 1970</b>
box 22, folder 38	<b>Woodward, Herbert N. 1973</b>
box 22, folder 39	<b>World Congress Alternatives and Environment 1989</b>
box 22, folder 40	<b>Xu, Ronglan 1980 - 1986</b>
box 22, folder 41	<b>York, Herbert F. 1976 - 1985</b>
box 22, folder 42	<b>Yoshinaga, Y. 1970</b>
box 22, folder 43	<b>Youngnom, Wolfgang 1975</b>
box 22, folder 44	<b>Zeldovich, Ya. B. 1983</b>
box 22, folder 45	<b>Zentrum Fur Umweltplanung 1975</b>
box 22, folder 46	<b>Zhu, Lie 1985</b>
box 22, folder 47	<b>Zimmer, Stuart 1982</b>

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### Chronological File

box 22, folder 48	<b>Chronological File, September-December 1974</b>
box 22, folder 49	<b>Chronological File, January-August 1974</b>
box 22, folder 50	<b>Chronological File, 1975</b>
box 22, folder 51	<b>Chronological File, 1976</b>
box 22, folder 52	<b>Chronological File, 1977</b>
box 23, folder 1	<b>Chronological File (Asoka Mendis), 1982</b>
box 23, folder 2	<b>Chronological File, 1983</b>
box 23, folder 3	<b>Chronological File, 1984</b>
box 23, folder 4	<b>Chronological File, 1985</b>
box 23, folder 5	<b>Chronological File, 1986</b>
box 23, folder 6	<b>Chronological File, 1987</b>
box 23, folder 7	<b>Chronological File, 1988</b>
box 23, folder 8	<b>Chronological File, 1989</b>

**PUGWASH**

box 23, folder 9      **General 1970 - 1971**  
box 23, folder 10    **General 1972**  
box 23, folder 11    **Papers, pending 1971**  
box 23, folder 12    **Population 1971 - 1972**  
box 24, folder 1      **21st Pugwash Conference in Sinaia, Romania 1971**  
box 24, folder 2      **21st Pugwash Conference in Sinaia, Romania, papers at 1971**

**Note**

Folder 1.

box 24, folder 3      **21st Pugwash Conference in Sinaia, Romania, papers at 1971**

**Note**

Folder 2.

box 24, folder 4      **21st Pugwash Conference in Sinaia, Romania, papers at 1971**

**Note**

Folder 3.

box 24, folder 5      **21st Pugwash Conference in Sinaia, Romania, proceeding 1971**

**Note**

Folder 1.

box 24, folder 6      **21st Pugwash Conference in Sinaia, Romania, proceeding 1971**

**Note**

Folder 2.

box 24, folder 7      **22nd Pugwash Conference in Oxford 1972**

box 24, folder 8      **23rd Pugwash Conference in Aulanko, Finland 1973**

box 24, folder 9      **24th Pugwash Conference in Baden, Austria 1974**

**COMMITTEE FOR SOLAR-TERRESTRIAL RESEARCH**

box 25, folder 1     **International Symposium on Solar-Terrestrial Physics 1970**  
box 25, folder 2     **Solar-Terrestrial Research for the 1980s 1981**  
box 25, folder 3     **Committee on Solar-Terrestrial Research, general 1983**  
box 25, folder 4     **Committee on Solar-Terrestrial Research, general 1984**  
box 25, folder 5     **Committee on Solar-Terrestrial Research, Minutes of Meeting, October 17-18 1984**  
box 25, folder 6     **Committee on Solar-Terrestrial Research, general 1985**  
box 25, folder 7     **Committee on Solar-Terrestrial Research, Minutes of Meeting, January 28-29 1985**  
box 25, folder 8     **Committee on Solar-Terrestrial Research 1985**

**Note**

Board on Atmospheric Sciences and Climate. Folder 1.

box 25, folder 9     **Committee on Solar-Terrestrial Research 1985**

**Note**

Board on Atmospheric Sciences and Climate. Folder 2.

**SUBJECT FILES**

box 25, folder 10 **Alfven Waves 1966 - 1971**

**Note**

Folder 1.

box 26, folder 1 **Alfven Waves 1981 - 1985**

**Note**

Folder 2.

box 26, folder 2 **Alfven's Critical Velocity Effect 1982**

box 26, folder 3 **Amnesty International 1975 - 1977**

box 26, folder 4 **Critical Mass 1974 - 1975**

box 26, folder 5 **Energy 1974 - 1977**

box 26, folder 6 **Energy: International Atomic Energy Agency 1976 - 1977**

box 26, folder 7 **Energy, International 1975 - 1979**

box 26, folder 8 **Food and Disarmament International 1980 - 1986**

box 26, folder 9 **Magneto-Hydrodynamics 1965 - 1973**

box 26, folder 10 **NASA, Marshall Flight Space Center 1970 - 1971**

box 26, folder 11 **NASA 1972 - 1974**

box 26, folder 12 **NASA, consulting 1974 - 1975**

box 26, folder 13 **NASA 1978 - 1979**

box 26, folder 14 **NASA 1989**

**Note**

For additional information, see Series 3A, CORRESPONDENCE, Shawhan, Stanley.

box 26, folder 15 **National Science Foundation 1975 - 1978**

box 26, folder 16 **Nuclear Power 1982 - 1983**

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**GRANTS**

box 27, folder 1 **Miscellaneous Grant Materials, NSF and NASA 1975 - 1986**  
box 27, folder 2 **Miscellaneous Proposals 1975 - 1981**  
box 27, folder 3 **Small Bodies in the Solar System: Comets, NASA 1969**  
box 27, folder 4 **Structure and Evolution of the Asteroid Belt, NASA 1972**  
box 27, folder 5 **Origin and Evolution of the Asteroidal Belt, NSF 1974**

**Note**

Folder 1.

box 27, folder 6 **Origin and Evolution of the Asteroidal Belt, NSF 1974**

**Note**

Folder 2.

box 27, folder 7 **Investigations of the Cosmological Consequences of Antimatter, NSF 1976**  
box 27, folder 8 **Origin and Evolution of the Asteroid Belt, NSF 1976**  
box 27, folder 9 **Electric Current Structure of the Magnetosphere, NSF 1977**  
box 27, folder 10 **Electric Current Structure of the Magnetosphere and Heliosphere, NSF 1987**  
box 27, folder 11 **Investigations of the Cosmological Consequences of Antimatter, NSF 1978**  
box 27, folder 12 **Electric Current Structure of the Magnetosphere and Heliosphere, NSF 1979**  
box 27, folder 13 **Theoretical Studies of Solar System Plasmas, NASA 1980**  
box 27, folder 14 **Planetology Studies, NASA 1980**  
box 27, folder 15 **New Plasma Physics and Its Applications 1981**

**Note**

To Planetary Magnetospheres and the Heliosphere, NASA.

box 27, folder 16 **External Sources of the Antisolar Geomagnetic Field, NSF 1982**  
box 27, folder 17 **Rocket Investigations of Rapidly Varying Space Plasma Phenomena, NASA 1983**  
box 27, folder 18 **Physics and Chemistry of Dusty Plasmas 1984**

**Note**

A Laboratory and Theoretical Investigation, NASA.

box 27, folder 19 **Energy Transfer To and Within the Magnetosphere 1985**  
box 27, folder 20 **New Plasma Physics and Its Application 1987**

**Note**

To the Planetary Magnetosphere and the Heliosphere, NASA.

box 28, folder 1 **Planetology Studies, NASA 1987**  
box 28, folder 2 **Studies of Solar System Plasma Processes, NASA 1989**

TEACHING MATERIALS

box 28, folder 3	<b>Cosmic Electrodynamics, winter 1969</b>
box 28, folder 4	<b>Applied Physics and Information Science notices, fall-spring 1969 - 1972</b>
box 28, folder 5	<b>Applied Physics and Information Science 228, winter 1974 - 1975</b>
box 28, folder 6	<b>Applied Physics and Information Science 236, winter 1976 - 1978</b>
box 28, folder 7	<b>Applied Physics and Information Science 295, fall 1973 - 1974</b>
box 28, folder 8	<b>Applied Physics and Information Science 295, fall 1975 - 1977</b>
box 28, folder 9	<b>Electrical and Computer Engineering 236, winter 1983</b>
box 28, folder 10	<b>Electrical and Computer Engineering 236, winter 1984</b>
box 28, folder 11	<b>Electrical and Computer Engineering 236, winter 1985 - 1987</b>
box 28, folder 12	<b>Electrical and Computer Engineering 295, fall 1982 - 1983</b>
box 28, folder 13	<b>Electrical and Computer Engineering 295, fall 1985 - 1986</b>
box 28, folder 14	<b>Electrical and Computer Engineering 295/292, fall 1987</b>
box 28, folder 15	<b>Electrical and Computer Engineering 295, fall-winter 1988 - 1989</b>

MEETINGS AND SYMPOSIA

box 28, folder 16 **Invitations to Speak 1972 - 1975**  
box 28, folder 17 **Invitations to Speak 1976 - 1988**  
box 28, folder 18 **Pending Meetings and Symposia 1975 - 1977**  
box 29, folder 1 **Physical Studies of Minor Planets, March 8-10 1971**  
box 29, folder 2 **Nobel Laureate Symposium, June 28-July 2 1971**  
box 29, folder 3 **Planet to Planet Conference, September 1971**  
box 29, folder 4 **Energy Resources Conservation and Development Commission Hearings, February 2 1977**  
box 29, folder 5 **Protostars and Planets, January 3-7 1978**  
box 29, folder 6 **Ninth Lunar and Planetary Science Conference, March 13-17 1978**  
box 29, folder 7 **Twelfth Lunar and Planetary Science Conference, March 16-20 1981**  
box 29, folder 8 **Alpbach, June 1981**  
box 29, folder 9 **Seventeenth International Cosmic Ray Conference, July 13-25 1981**  
box 29, folder 10 **Plasma Astrophysics, August 27-September 7 1981**  
box 29, folder 11 **Dubrovnik, October 1981**  
box 29, folder 12 **International Conference on Plasma Physics, June 9-15 1982**  
box 29, folder 13 **Symposium on Plasma Double Layers, June 16-18 1982**  
box 29, folder 14 **American Geophysical Union Fall Meeting, December 7-15 1982**  
box 29, folder 15 **University of Texas, Austin, February 22-24 1983**  
box 29, folder 16 **American Geophysical Union Fall Meeting, December 5-9 1983**  
box 29, folder 17 **Huntsville, March 19 1984**  
box 29, folder 18 **Sixteenth International Conference of Theoretical and Applied Mechanics 1984**

**Note**

August 19-25.

box 29, folder 19 **Plasma Astrophysics, August 28-September 7 1984**  
box 29, folder 20 **Asteroids, Comets, Meteors II, June 3-6 1985**  
box 29, folder 21 **Faculty Seminar on International Security, September 30, October 9 1985**  
box 29, folder 22 **Plasma Conference: Cosmogony--A New Field of Plasma Physics, November 4 1985**  
box 29, folder 23 **International Conference on Conflict Resolution and Peace Studies 1985 - 1986**

**Note**

December 30-January 5.

box 29, folder 24 **Double Layers in Astrophysics Symposium, March 17-19 1986**  
box 29, folder 25 **Chalki International Youth Forum of Peace and Friendship, September 22-26 1986**  
box 29, folder 26 **International Symposium on Space Physics, November 10-14 1986**  
box 29, folder 27 **World Congress Alternatives and Environment, April 8-11 1987**  
box 30, folder 1 **Eighteenth International Conference on Phenomena in Ionized Gases, July 13-17 1987**  
box 30, folder 2 **American Geophysical Union Fall Meeting, December 7-11 1987**  
box 30, folder 3 **Facing the 21st Century: Threats and promises (Nobel Laureate Conference) 1988**

**Note**

January 18-21.

box 30, folder 4 **American Geophysical Union Honors Ceremony, December 7 1988**  
box 30, folder 5 **Fourteenth Texas Symposium on Relativistic Astrophysics, December 11-16 1988**  
box 30, folder 6 **Science Education for the 21st Century: The "Natur och Kultur" Symposium 1989**

**Note**

June 4-7.

**PHOTOGRAPHS**

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**Images of Alfven**

box 30, folder 7      **Images of Alfven**

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**Group Photographs**

box 30, folder 8      **Group Photographs**

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**General Photographs**

box 30, folder 9      **Alabama**  
box 30, folder 10      **Black Holes 1984 - 1985**  
box 30, folder 11      **Cosmic Plasma**  
box 30, folder 12      **Cosmogony**  
box 30, folder 13      **Fireworks**  
box 30, folder 14      **Saturn**  
box 30, folder 15      **Saturnian Rings and the History of the Solar System 1980**  
box 30, folder 16      **Solar System**  
box 30, folder 17      **Miscellaneous Photographs, folder 1**  
box 30, folder 18      **Miscellaneous Photographs, folder 2**