

**GUIDE TO AN  
ADDENDUM TO THE JAMES A. VAN ALLEN PAPERS  
AND RELATED COLLECTIONS**

by

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PROJECT ARCHIVIST**

WITH FUNDS FROM THE  
IOWA SPACE GRANT CONSORTIUM

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## Preface

The main body of Dr. James A. Van Allen's papers was transferred to the University of Iowa Libraries in the early 1990s, and an inventory of it, compiled by Christine D. Halas, *The James A. Van Allen Papers and Related Collections*, was published by the Libraries in 1993.

In late 2001, Dr. Van Allen transferred the materials described in the present inventory. This addendum documents Dr. Van Allen's activities from the late 1980s to the late 1990s. In organizing this group of papers, I sought to respect the work of Dr. Van Allen as well as the order set forth by Chris Halas's original finding aid.

In 2000, the Halas inventory was digitized by the American Institute of Physics, encoded in EAD (Encoded Archival Document) format, and made available on the Internet at [http://www.aip.org/web2/aiphome/history/ead/iowa\\_java\\_papers/19990077.html](http://www.aip.org/web2/aiphome/history/ead/iowa_java_papers/19990077.html). This *Guide to an Addendum* has also been digitized and added to the AIP site.

Organization of the addendum and compilation of this *Guide to an Addendum* was made possible by a grant to Dr. Van Allen from the Iowa Space Grant Consortium and its director, William J. Byrd, of Iowa State University. My work was guided by Dr. Van Allen, informed by Christine Halas Wood, and supported by the librarians and staff in Special Collections at the University of Iowa Libraries. All of these individuals helped me in creating this finding aid, an accomplishment that would not have been possible without them.

— Jeremy M. Brown, Project Archivist

## **Scope and Content Note, Addendum to the James A. Van Allen Papers:**

### **A. General Correspondence and Assistant Files:**

This subsection is comprised primarily of correspondence. The majority of this section, the “Miscellaneous A-Z” files, was assembled in file cabinets by Dr. Van Allen’s long-time assistant, Mrs. Evelyn D. Robison. I have slightly diverged from the original collection’s precedent in that I have left the subject files interfiled with the alphabetical files in order to preserve Mrs. Robison’s file structure. Many of the items found in the subject files overlap with later parts of the collection, and one must take care to note the cross-references. The filing style changes markedly in the middle of 1995, following Mrs. Robison death, and the amount of materials filed decreased greatly.

The second part of this section, “General Correspondence,” contains only correspondence, the majority of which was found in an unsorted state, separate from other materials in Mrs. Robison’s former office. These materials are filed chronologically, as “incoming” and “outgoing”. Incoming autograph requests are found at the end of the outgoing correspondence.

The last two parts of this section are documents produced by Mrs. Robison and Chris (Halas) Wood. Mrs. Robison’s yearbooks contain appointment information as well as information regarding deadlines and other tasks associated with supporting Dr. Van Allen and the Physics Department. These span the years 1966 to 1995. Chris Wood, the archivist for the original collection provided her composition books, which contain information about the original collection and provide further context for Dr. Van Allen’s work in general.

### **B. Research:**

**Sponsoring Agencies.** This material was found intermingled with other, unrelated materials and should fill gaps in the original collection. An exception to this is Dr. Van Allen’s Office of Naval Research (ONR) files, which provide an update on his activities since the donation of the original collection.

**Spacecraft Missions.** The majority of the material making up this section is from Dr. Van Allen’s ongoing project with Pioneer 10/11. The first several boxes of material originated from Dr. Van Allen’s office. The bulk of the Pioneer material was filed by Mrs. Robison, whose filing system has been preserved here. There are also significant amounts of material for the Hawkeye and Voyager missions. Many phenomena were studied by comparing data obtained using different spacecraft. These types of analyses are found in the “joint mission analysis” category.

### **C. Reference and Subject Files.**

The bulk of the material in this category comes from Dr. Van Allen's personal filing cabinets. The folders themselves were scattered across various file drawers, but unlike the other materials, and although important to Dr. Van Allen's work, these were generally not his core subject areas. The clippings that now compose the clippings file were found in many different places. They are arranged chronologically and depict Dr. Van Allen's interests. The first section of the clippings file is made up of articles about Dr. Van Allen himself; the rest were found with his papers.

#### **D. Advisory and Professional Activities**

Most of the material in this category fills gaps in the original collection. Organizations that appeared in the original finding aid are ordered in the same way in this addendum, although not all are present here. Organizations that were not in the original finding aid have been placed following the other groups.

#### **E. Conference Files**

The files contain information pertaining to meetings in which Dr. Van Allen was a participant. It is important to look at both the speeches and lectures categories as they are very similar in nature. These files are arranged chronologically.

#### **F. Trip Files**

These trip files were created by Mrs. Robison, and there is a marked difference in style after her death in 1995. The two groupings of files and blue binders preserve Mrs. R's original system.

#### **G. Professorial Material**

Like the original collection, this subseries is separated into two subcategories. The first contains material relating to classes that Dr. Van Allen taught and reflects his teaching style. The second contains material from students who received advanced degrees as Van Allen's advisees. The bulk of this later category is made up of theses found together in his office, which often contain commentary.

#### **H. Calendars**

This subseries contains four calendars documenting some aspects of Dr. Van Allen's career.

#### **I. Van Allen's Research Notes, Van Allen's Holographic Notes**

Dr. Van Allen takes copious notes that reflect his thoughts about all aspects of his professional life. The notes with dates were all retained and filed in chronological order. The remainder were sampled.

## **J. Speeches and Congressional Testimony**

The speeches and lectures present here are filed alphabetically by organization, and an additional category for interviews with Dr. Van Allen has been added. This includes the transcript of a 1962 BBC interview, among others. Material from many awards ceremonies is found here. The latter part of this subseries, “Congressional Testimony,” reflects Dr. Van Allen’s interest in NASA policies.

## **K. Space Policy**

Dr. Van Allen devoted substantial attention to space policy, and most of this material can be found in this new subseries. Correspondence is filed chronologically, followed by files and file folders that represent contiguous collections which Dr. Van Allen maintained himself. The third category represents material that Dr. Van Allen collected from miscellaneous sources. The final category contains his space policy publications.

## **Series II. Manuscripts and Publications**

This category is comprised of papers that Dr. Van Allen published and materials relating to them.

## **Series III. Oversized Material**

## **The Physics Department Papers Under James A. Van Allen (1951-1985)**

The material found here differs little from that described in the Halas (1993) scope notes. Although most of the material from Dr. Van Allen’s stint as Chair of the Department of Physics and Astronomy at the University of Iowa was filed in the original collection, these addendum papers fill gaps and document Dr. Van Allen’s continued interest in the department after his retirement



## **Container Listing:**

### **Series I. University of Iowa Papers**

#### **A. General Correspondence and Assistant Files**

##### **1. Miscellaneous A-Z**

###### **Box 1**

A, 1989

'AGU Fall Meeting, San Francisco, CA 4-8 December 1989' and 'AGU Misc. 1989'

University of Alaska — Loan Equipment for Display

Annual Review: "What is a space scientist?..." Autobiographical ... — JAVA June 1989

Academic 1989

B-C, 1989

Christmas Cards, 1989

Cosmos Club Gift: Annals of the IGY

D-F, 1989

JAVA's Red Binder: Foerstner Scholarship Foundation, Inc. — Annual Board Meeting,  
Wednesday August 23, 1989

###### **Box 2**

G-H, 1989

I, 1989

J, 1989

JPL: Advisory Committee of the Visiting Senior Scientist Program [See Also: Box 80]

K, 1989

Kutyna, General Donald J. — 13 April 1989

L-M, 1989

Morris, Dirk: Letters of Recommendation

N, 1989

National Academy of Sciences, 1989

New Hampshire, Durham: 21-24 May 1989, Symposium on Outer Heliosphere [Forbush]

###### **Box 3**

NRC Associateship and Fellowship Programs Advisory Committee (AFPAC)

News Day: Common Sense and the Future of Space 5/17/89

O-P, 1989

Q-R, 1989

Radiation Belts — Van Allen 1989 Encyclopedia of Physics, Second Edition

Regents Meeting 4/12/89

S, 1989

Space Station Panel/AGU

Sweden: "Active Experiments..." — Stockholm Symposium 9/28/89 [See Also Box 86]

---- 27-29 September — Symposium on Magnetospheric Physics, Part I

---- Part II

---- Crafoord Prize 1989, Congratulatory Letters

**Box 4**

T-U, 1989

Unfortunate Persons File, 1989

V, 1989

Visiting Senior Scientists Program Advisory Committee, 25 January 1989 [See Also Box 80]

W, 1989

Wetherill, Dr. George W. — “Annual Review of Earth...” 1989

X-Z, 1989

1990 Miscellaneous Correspondence (Not Sorted)

“SS 1990”: Space Physics Publications, 1990 [Physics Department Publications]

Masters (Miscellaneous) 1990

American Institute of Physics — Advisory Committee... (Current)

---- 7/1990

Ansher, Jay A., Projected Ephemerides P10-P11 1/1/70-1/26/2010 U of Iowa 90-5 (Master) [Includes “Hawkeye-1 MSF 74162 Ansher ~ 6/17/89”]

Academic (Misc.) 1990

**Box 5**

AGU Fall Meeting: 3-7 December 1990 – San Francisco, CA

Augustine Advisory Committee on the Future of the US Space Program 11/19

A, 1990

AGU Misc, 1990

B, 1990

C, 1990

CRAF/Cassini 1989-1990 [See Also: Box 98 (Congressional Testimony)]

Cosmos Club Award: 26 April 1990

D-E, 1990

Encyclopedia Astronomy and Astrophysics – ENCY-15, 17 November 1989

F-G, 1990

**Box 6**

Governor’s Science Advisory Council [folder label missing]

---- March-April 1990

---- July 1990-December 1990

**Box 7**

H, 1990

Hansen, James E. – Special Lecture, 30 March 1990

Hansen, Dr. James E., re: Global Warming Issue 1989-1990

Iowa Endowment 2000 – Campus Campaign (J. A. Van Allen, Chair) [See also: Box 79 Committees Panels &amp; Working Groups]

J-K, 1990

Kyoto, 1990 [The Inamori Foundation]

L-M, 1990

McDonald, Frank B: NASA/University Relationships

**Box 8**

National Academy of Sciences, 1990  
Nevada Medal, The: April 3-6, 1990  
Nicholson, Dwight R. (Letters of Recommendation) 1989-1990  
Norway, Oslo: 1990 Nansen Prize Lecture (1991) [Contains two 5.25" computer disks,  
See Also: Box 87]  
---- Nansen Prize Lecture: Figures  
---- Norway, Oslo: 1990 October – Birkeland/Nansen Lecture [Part I]  
---- Norway, Oslo: 1990 October – Birkeland/Nansen Lecture [Part II]  
O, 1990  
Oakland, CA: IEEE International Conf. on Plasma Physics, 21-23 May 1990  
Paris, France: 27 September 1990  
P-R, 1990  
Radioactive Material: ISOTOPE INVENTORY

**Box 9**

S, 1990  
Schlenker, Larry: "Collapsing Ring Model of the Origin of the Solar System"  
Summer Institute for Creative Engineering: Final Report – 1990  
Skromme, Arnold B – The 7-Ability Plan  
T-V, 1990  
Tau Beta Pi Symposium – 8 March 1990  
Unfortunate Persons, 1990  
[JPL] Visiting Senior Scientist Program Advisory Committee – 1990 [See Also: Box 80]  
W-Z, 1990  
WADA Cosmic Ray Tape Span/NOAA

**Box 10**

1991 Miscellaneous Correspondence (Not Sorted)  
Adnan, J. and J. A. Van Allen – JGR Manuscript – 3 July 1991  
---- Glossy Prints: JGR Revised Manuscript – Van Allen/Adnan 22 October 1991  
---- Adnan (See 12/19/91 Revision) 22 October 1991 J. A. Van Allen and J. Adnan, JGR  
Revised Manuscript [Hawkeye I] Glossy Prints in File  
---- Adnan 19 December 1991 [Second Revision]  
AGU Flinn Award Committee 7/1/90-6/30/92  
A-B, 1991  
Bush (Vannevar Bush Award)/NSB 8 May 1991 [See Also: Box 99]  
Bust (Bronze): Wolfram Niessen

**Box 11**

C, 1991 [Part I]  
---- Part II  
Cambridge, MA: MIT Alvéen Lecture, 24-25 January 1991 [See Also: Box 99]  
Celebration of Schooling: Jim Spelhaug 3/14/91  
Club, The 17 December 1991

COMPLEX Summer Study: 15-19 July 1991 – Woods Hole, MA (Trip-5) [See Also: Box 76]

D-F, 1991

G-I, 1991

J-K, 1991

Kutyna, General Donald J., USAF [Colloquium, 6 September 1991]

### **Box 12**

L-M, 1991

Memorial File, 1 November 1991

---- CV's Goertz, Smith, and Nicholson 11/1/91

### **Box 13**

Morris, Dirk: Recommendations – 1991 [some letters from 1990]

National Academy of Sciences, 1991

N, 1991

Nature Coupling Manuscript – JAVA 1 August 1991

Neutron Monitor Data [3.5" computer disk]

O-P, 1991

Princeton, NJ: 15 May 1991 – Robert A. Ellis, Jr. Memorial Lecture

Pioneer LDP Program (Pres. Rawlings) 19-26 January 1991 [See Also: Box 99 "Pioneer Hi-Bred"]

R, 1991

Radiation Belts: Suess/MSFC 11 January 1991

S, 1991

Shuttle: Information Forwarded to John Naugle – 3 October 1991

Space Age Panel/NAS/WQED Pittsburgh [See Also: Box 83]

Sun-Earth Environment, Our – A Smithsonian Exhibit

### **Box 14**

T-V, 1991

Visiting Senior Scientist Program/JPL [See also: Box 80]

W-Z, 1991

Miscellaneous Masters, 1991

Space Science Publications (Department), 1991

1992 Misc. Correspondence (Not Sorted)

A, 1992

Adnan: JGR Photoready copy – 13 March 1992

AGU 1992 Spring Meeting, Montreal, Canada

Announcements: Conferences, Symposia, etc. 1992

ARML Lecture – Nicholas Colangelo – 29 May 1992

B, 1992

C, 1992

### **Box 15**

Caplan 4/4/92 Lecture, U. Iowa

Christmas Cards, 1992

D-E, 1992

F, 1992

Fillius/Van Allen Manuscript – 7 February 1992

---- Revision 5/22/92

G-I, 1992

Iowa Wesleyan College 2/13/92 [See also: Box 99]

J-K, 1992

Kellerman, L. R. “Stretching the Limits: Dr. James A. Van Allen and His Search for the Identity of Cosmic Radiation”

L-M, 1992

### **Box 16**

N, 1992

NASA Scientific and Technological Program Reviews, Committee Member

NAS – 1992

National Forum (Phi Kappa Phi) – 1 April 1992 [JAVA’s article: “On the Future of Space Science and Applications”]

O, 1992

Office Supplies, Information, Etc.

P, 1992

Presidential Lecture: 2 February 1992 [Photographs]

Publications 1950-1970

Q-S. 1992

Sagan, Carl: Second Annual Distinguished Lecturer 3/16/92 [See Also: Box 100]

Science Center (Iowa City) –James C. Larew – 1992

Solar Wind Termination Workshop, APL 22-23 January 1992

Space Physics Workshop 9-12 July 1992

### **Box 17**

T-U, 1992

Utah State U.: 6<sup>th</sup> Annual AIAA Conference on Small Satellites – September 1992

History of Planetary Science II: Space Age, Encyclopedia of Planetary Sciences

V-Z, 1992

Miscellaneous [Masters ...] 1992

Space Science Publications (Department), 1992

A, 1993

AIP Working Group for Space Science and Geophysics, 21-22 May 1993

### **Box 18**

Book-A: Elementary Problems in Solar System Astronomy [Part I]

---- Book-A: Elementary Problems in Solar System Astronomy [Part II]

[923] Elementary Problems and Answers in Solar System Astronomy, edited by Linda Fisher [Part I]

--- [923] Elementary Problems and Answers in Solar System Astronomy, edited by Linda Fisher [Part II]

[923] Elementary Problems and Answers in Solar System Astronomy (U. IA Press Working Copy)

[923] Elementary Problems and Answers in Solar System Astronomy, Glossy Prints B, 1993

Bowie Medal: AGU [Correspondence between committee members]  
 ----[Nominations]

### **Box 19**

C-E, 1993

Eastman, Timothy E.

Forbush Book edited by JAVA (Published 1993) [See Also: Box 107]

F-G, 1993

GRL Manuscript #6824, July 1993 [and 1 November 1993] HELIO “Recently Observed Cosmic-Ray Intensity in the Outer Heliosphere”

H-J, 1993

JGR: Special Section on Heliospheric Boundary 4/93 [JAVA wrote the preface]

K-N, 1993

### **Box 20**

O-S, 1993

Shapiro Festschrift: “Where is the Cosmic-Ray Boundary of the Heliosphere?” (U of I 89-23, November 1989)

T-U, 1993

U of Iowa 93-8 (May 1993) “Cosmic Ray Intensity...” and U of Iowa 93-9 (May 1993) “Interplanetary Proton ( $E_p \approx 1\text{MeV}$ ) Events...”

V-Z, 1993

Space Physics Publications, 1993

A, 1994

AGU 75<sup>th</sup> Anniversary Meeting – Baltimore, MD 24 May 1994 [See Also: Box 82]

Archives 1991-1994 [Production information for the JAVA Papers and Related Collections – See Also: Box 80]

B, 1994

Belin Center Recognition Ceremony, 21 May 1994

C-D, 1994

Departmental Matters, 1993-4

### **Box 21**

EOS: SPA Section, 24 May 1994 Symposium

E-H, 1994

I-J, 1994

The 1994 (Tenth) Japan Prize

JGR Latitude – A 1957 Survey of Cosmic Ray Intensity... [Lat-1; Lat-2 (Computer file names)]

K-M, 1994

F. Mims: Background Count [from Sun Photometer Atmospheric Network (SPAN)]

MICA: UI 94-16 – “Survival of a Thin Mica Window on Pioneer 11 During 21 Years of Interplanetary Flight”

New Hampshire, Durham: Pioneer-Voyager Symposium, 31 May 1994 – 3 June 1994  
N-R, 1994

Radioactive Material: Isotope Inventory

**Box 22**

1951 Rockoon Proposal (Missing June 14, 1951 document)

S, 1994

Science #AR942951 – Active Experiments in Magnetospheric Physics – Submitted 14 June 1994

Skromme, Arnold B. 1992-1994

T, 1994

Tau Beta Pi: 1994 Paul D. Scholz Symposium 17 March 1994 [See Also: Box 88]

U-Z, 1994

SPAN (Telemail) IOWASP (Mail) July-December 1994

Space Physics Publications, 1994

AGU Fall 1995 Abstract [High Energy Particles in Earth’s Magnetic Field]

A-D, 1995

DeVorkin, David H. Book Review by JAVA 1994-1995

E-G, 1995

Gale Encyclopedia of Science – Van Allen Radiation Belts, January 1995 [Contains 3.5” computer disk]

**Box 23**

H, 1995

ICARUS: Electrons, Protons, and Planets – Van Allen 16 November 1995 [Kuiper Prize Lecture, Manuscript – See also Box 82]

Icarus Copyright Permissions, Misc.

I-J, 1995

JGR: Auroral (pap) – Early Rocket Observations of Auroral Bremsstrahlung and its Absorption in the Mesosphere, March 1995 [Draft, Correspondence]

----Unlabeled – “Early Rocket Observations of Auroral Bremsstrahlung...” 12 April  
Draft

---- January 1995

JGR: Milliamp (pap) – Twenty-Five Milliampere: A Tale of Two Spacecraft – 3 July 1995 [Part I]

---- Part II

K, 1995

Kuiper Prize: DPS/AAS – Energetic Particles and Magnetic Fields in the Solar System, 2 November 1994 [See Also: folder 2; Box 82 AAS Kuiper Prize]

**Box 24**

L-M, 1995

Macmillan Encyclopedia – Radiation Belts (DS0313) 25 April 1995

N, 1995 [Includes NAS and James Hansen Nevada Medal Nomination subject files]

Office Equipment, Service Contract, etc.

P, 1995

Pesses, Mark E.

Presidential Search Committee – 1995 [See Also: Box 81]

Q-S, 1995

SAMPEX, March 1995

T-Z, 1995

### **Box 25**

AGU Books: “Energetic Particles in the Earth’s External Magnetic Field,” Chapter in  
“History of Discovery,” February 1997

---- 23 October 1996 (Draft Copy)

Van Allen: “My Life at APL,” John Hopkins APL Technical Digest 18, 305-309, April-  
June 1997

A-G, 1996

Gilmore, Steward – AGU History of the Discovery of the Magnetosphere

H-J, 1996

JGR: A Durable Reduction of Cosmic Ray Intensity in the Outer Heliosphere – 9 January  
1997

----Van Allen and Randall, JGR May 1996

---- JGR: cri-jgr, older version of figures

K-O, 1996

P-V, 1996

Viewgraph Masters, July 1996

Viewgraphs for talk on 28 October 1996 [“A Major Disruption of Cosmic Ray  
Intensity...”]

### **Box 26**

W-Z, 1996

A-C, 1997

Collier, James, Victoria House Press, FAX (3) July 1997

D-F, 1997

Biographical Memoirs, (Forbush) Sept. 1997

G-I, 1997

Randall, JGR 1997/8 [“... Magnetic Field Model for Jupiter’s Inner Magnetosphere...”]

J-N, 1997

P-Q, 1997

Pioneer 10 Book

R, 1997 [Primarily Rajbhandary’s M.S. Thesis]

S-U, 1997

Unified Program Talk – May 1, 1997 [“Myths and Realities of Space Flight”]

V-Z, 1997

A-J, 1998

[JGR] Van Allen, ... Explorer I Revisited, December 1998



**Box 27**

Van Allen, J Geophys. Res., March 16, 1998 Submit [“Mean free paths...”]  
---- Van Allen, JGR crc Mean free... Oct. 1998, 3 [Folders 1 and 2 apparently consolidated]  
K-M, 1998  
Millikan Talk (6-27-98) [At the Jackson County Historical Society]  
N-R, 1998  
Randall, Draft, Jupiter Paper [“Energetic Particles in Jupiter’s Inner Magnetosphere...”  
27 July and 26 October, 1998]  
S, 1998  
[Sky Publishing Corporation] Van Allen and Bagenal, Chapter in The New Solar System,  
4<sup>th</sup> ed. 1998  
P-Z, 1998  
A-C, 1999  
Van Allen, Ency. Space Science, crc 8-99 – The Century of Space Science  
[“Magnetospheric Physics”]  
D-J, 1999  
Van Allen, J.G.R. (crc) Exp. I Revisited, May 1999 [See also: Box 27, folder 6]  
K-R, 1999  
S-Z, 1999

**2. General Correspondence**

**a) Incoming**

**Box 28**

1948-1959 [contains photographs]  
1960-1969  
1970-1979

**Box 29**

1982-1987  
1988-1989  
1990  
1991  
1992  
1993  
1994  
1995  
1996

**Box 30**

1997  
1998  
1999  
2000  
General Incoming Correspondence, n.d.  
Miscellaneous Autograph Requests

**b) Outgoing****Box 31**

Outgoing 1959-1966

1970-1979

1982-1987

1987-1989

1990-1991

1993-1994

1995

1996

1997

1998

1999

**3. Mrs. Robison's Yearbooks/Correspondence****Box 32**

Evelyn D. Robison: Letters of Recommendation/Publications – Personnel

Mrs. R's Yearbooks – 1966-67

---- 1968-69

---- 1970-71

---- 1972-73

**Box 33**

---- 1974-75

---- 1976-77

---- 1978-79

---- 1980-81

**Box 34**

---- 1983-84

---- 1985-86

---- 1987-88

---- 1989-90

---- 1991-92

**Box 35**

---- 1993, 1995

---- 1994

**4. Christine Halas' Archiving Composition Books****Box 36**

“Introduction to the Van Allen Papers” and Misc.

“Writing the Introduction”

“Archiving Book of Questions 7/2787”

“Chris Halas – Archiving 1”

“Archiving 2”

**Box 37**

“Archiving Book 3”  
“Archiving Book 4”  
“Archiving Book 5”  
“Archiving Book 6”  
“JAVA Papers – Archiving Book 7”

**B. Research**

**1. Sponsoring Agencies**

**a. ONR**

**Box 38**

ONR Correspondence (1955-1959)  
ONR Correspondence  
ONR Progress Report: 21 October 1997 [3.5”computer disk]  
From JAVA’s ONR File 6 February 1970-May 1974  
Material from JAVA’s ONR File – 1977  
Material from JAVA’s ONR File – 24 May 1980 – 3 December 1980  
Material from JAVA’s ONR File – 1 November 1982 – 16 May 1985  
Material from JAVA’s ONR File – 1989  
JAVA’s Brown Folder “Office of Naval Research 1989-1995” Left side, part I  
---- JAVA’s Brown Folder “Office of Naval Research 1989-1995” Left side, part II  
---- JAVA’s Brown Folder “Office of Naval Research 1989-1995” Left side, part III  
---- JAVA’s Brown Folder “Office of Naval Research 1989-1995” Center

**Box 39**

JAVA’s Folder for ONR Grant #N00014-89-J-1179  
JAVA’s Brown Folder “Office of Naval Research 1995-[2000]” Left side, part I  
---- JAVA’s Brown Folder “Office of Naval Research 1995-[2000]” Left side, part II  
---- JAVA’s Brown Folder “Office of Naval Research 1995-[2000]” Center

**b. NASA**

**Box 39 (continued)**

NASA correspondence  
Asteroid/Jupiter Missions (Memo Revision) 25 May 1968  
Comsat Information  
Shawhan-Cronyn: Clark Lake Radio Observatory – NOAA N22-112-72 (N)  
NASA Grant 16-001-002 Status Report: 1 September 1973-1 April 1974  
NASA Proposal Reviews

**c. NSF**

**Box 40**

NSF Correspondence  
Material relating to JAVA’s NSF Site Visits in July 1978

JAVA's Binder Marked: "Proposal submitted to the NSF: Radio Astronomy & Instrumentation at the Haystack Observatory 30 March 1978"  
 JAVA's Binder Marked: "Proposal to the NSF for consideration by the Astronomical Instrumentation and Development Program of the Astronomy Research Section 1 July 1978-30 June 1981..."  
 NSF Proposal Reviews

## **2. Proposals**

### **Box 40 (continued)**

Research Proposals – JAVA  
 Research Proposals – Faculty  
 Magnetic Fusion Science Fellowship Program, D. Nicholson, 11 March 1985

## **3. Spacecraft Missions**

### **Box 41**

Explorer I, Miscellaneous  
 Explorer I, 40<sup>th</sup> Anniversary

Injun I – INJUN Cookbook (5/27/61)  
 JAVA's Brown Folder: INJUN

Mariner II, Miscellaneous  
 Mariner II: "Search for Magnetically Trapped Particles around Venus with Mariner II"  
 "Planet Venus" Manuscript, Mejhreblian, ed. 11 September 1964, Part I  
 ---- Part II and III  
 ---- Chapter VIII

Explorer XIV

Injun III  
 Injun III Handbook (ca. March 1963)

### **Box 42**

Injun IV  
 OGO A & B  
 OGO 3 Graphs

Mariner 3: Final Engineering Report Mariner C-64, Trapped Radiation Detector, Unit 25

Mariner IV (located in oversize box)

IMP-D and IMP-E Correspondence  
 IMP-E Coverage, Part I  
 ---- Coverage, Part II  
 IMP-D&E Feasibility Study, January 1964  
 AIMP Technical Manual, February 1965

IMP-D&E PFM Encoding System Interface Document, March 1965

**Box 43**

AIMP Summary Description, August 1965

IMP-D Optical Aspect System, March 1966

Preliminary Description of the AIMP Information Processing System Software, Rev 1,  
March 1966

Final Engineering Report for the University of Iowa Lunar Orbiting Radiation  
Experiment, July 1966

JAVA's Preliminary Report on Explorer 33 (IMP-D) July 1966

Remarks on In-Flight Operation of Explorer 33 SSD Detector –T. Armstrong, November  
1966

Interim Flight Reports, AIMP I – Explorer XXXIII, December 1966

Explorer XXXV First Interim Report and Explorer XXXIII Third Interim Report and  
AIMP Project Bibliography, March 1968

AIMP Summary Description for Explorer XXXIII AIMP-D and Explorer XXXV AIMP-  
E, March 1968

IMP-D and IMP-E Final Report, January 1970

AIMP-D Tape Log, September 1970

IMP-D and IMP-E Miscellaneous

Mariner V

IMP F&G

**Box 44**

OGO D

OGO E

Injun V – Miscellaneous

Final Engineering Report – Injun V –SSD Experiment, Part I (October 1968)

--- Part II

Initial Observations of VLF Electric and Magnetic Fields with the Injun 5 Satellite, April  
1968

Status of and Plans for Experimenters' Reduction and Analysis of Solid State Detector  
(SSD) Data from Injun V – JAVA, 23 March 1970 (Manuscript and Comments)

Mariner Mars '69

OSO Experiment

**Pioneer 10 (F)**

Pioneer 10 Correspondence, Miscellaneous

Pioneer F Preship Review

“Pioneer F/G – Flight F Spacecraft Integration & Test Schedule,” 2 January 1972

“Pioneer F Preship Review – January 6/7, 1972” TRW, Redondo Beach, California

Pioneer Project, Flight F, 6 January 1972, Pre-Ship Review [Part I]

---- Part II

“Analysis of the Response of the ECD to Energetic Electrons” [Draft – 18 July 1975]

**Box 45**

“Analysis of the Response of the UCSD/Pioneer E&M Detectors to Energetic Electrons”  
[3 December 1975 Draft]

“Analysis of the Electron Response of the ECD on the Pioneer Spacecraft” [5 December 1975 Draft]

JGR Reprint: “Pioneer 10 Mission: Jupiter Encounter”

**Pioneer 11 (G)**

Pioneer 11 Correspondence, Miscellaneous

Reprints: “Pioneer 11 at Saturn”

Pioneer 11 at Saturn

“Kinematics of the Bombardment of Detectors on Pioneer 11 by dust particles” 3 October 1994 [Handwritten manuscript]

**Pioneer 10/11**

Pioneer 10/11 Correspondence, Part I

---- Pioneer 10/11 Correspondence, Part II

1970-71 UI Internal Communications Regarding Pioneer F/G

Pioneer 10/11 Holographic Notes

Pioneer Odyssey by Richard O. Fimmel

Pioneer 10/11 Papers – Part I

**Box 46**

Pioneer 10/11 Papers – Part II

Pioneer 10/11 Presentation 7-1-91 at ARC

Pioneer F & G Geiger-Mueller Tubes (from JAVA’s Blue Binder)

“How to Get to Saturn” – Presentation dated 22 February 1985

“Possible Identification of Planetary Protons in P 10/11 Data in Late 1989-Early 1990”

Contract NAS2-6553

Supplemental proposals for Pioneer 10/11 Data Analysis (5-7)

Pioneer 10/11 Miscellaneous

**Box 47**

**Material filed by Mrs. Robison (“Pioneer #1 – 1979)**

Ref. Document PR-200 Parts and Materials... 6/30/69

Ref Document PR-240 Performance Assurance... 12/10/19 Part I

---- Part II

Pioneers F/G Exp., Geiger Tube Telescope, May 1970 70-30

Pioneer F/G Monthly Progress Letters 1969-1970

Pioneer F/G Monthly Progress Letters 1971

JAVA Reports, Pioneers F/G

72-5 Initial Flight Report ... 3/27/72

Misc. — Correspondence 1969

Misc. — Correspondence Jan.-March 1970

Misc. — Correspondence April-June 1970  
Misc. — Correspondence July-September 1970

**Box 48**

Misc. — Correspondence October-December 1970  
Misc. — Correspondence January-March 1971  
Misc. — Correspondence April-June 1971  
Misc. — Correspondence July-September 1971  
Misc. — Correspondence Oct.-December 1971 [Part I]  
---- Part II  
Misc. — Correspondence Jan.-March 1972  
Misc. — Correspondence April-June 1972 [Rubber-banded bundle]  
Misc. — Correspondence April-June 1972 [Remaining material]  
Misc. — Correspondence July-December 1972  
Pioneer Monthly Progress Letters 1973

**Box 49**

“Calibration of University of Iowa Instruments Aboard Pioneers F and G” [David Baker’s Thesis, May 1973, Part I]  
---- Part II  
Pioneer — Misc. — January-June 1973 [Part I]  
---- Part II  
Pioneer — Misc. — July-December 1973  
NASA Contract NAS2-6553 3<sup>rd</sup> Rev. Proposal: Cert. Current State [Proposal removed as duplicate, correspondence retained]  
Pioneer 11 Encounter, Mission Wrap Up 12/74 [Part I]  
---- Part II  
---- Part III

**Box 50**

Pioneer 11 Status Review Meetings 12/74  
Pioneer — GSFC Photographs of Jupiter  
Pioneer — Misc. January-March 1974  
Pioneer — Misc. April-June 1974  
Pioneer — Misc. July-August 1974  
Pioneer — Misc. September-October 1974  
Pioneer — Misc. November-December 1974  
Material for the Jupiter Radiation Belt Workshop, ARC 19-22 February 1974  
Pioneer Meetings: Master Copy Sentman, Goertz, Baker [From Files 204 PB] 1974  
Pioneer 10 Encounter with Jupiter  
Pioneer 11 Encounter with Jupiter 2 December 1974  
Pioneer: Scarce Copies – Publications – Do Not Remove  
Pioneer — Misc. January-March 1975  
Pioneer — Misc. April-June 1975

**Box 51**

Pioneer — Misc. July-December 1975  
 Pioneer Public Service Group Achievement Awards 1975  
 Pioneer 10/11 Fifth Supp. Proposal April 1976 [Rev. May 1976]  
 Pioneer Misc. 1976 January-June  
 Pioneer Misc 1976 July-December  
 Pioneer 10/11 Contract NAS2-6553 Scientific Papers  
 Pioneer 10/11 Data Analysis NAS2-6553 JAVA [6<sup>th</sup> Supplemental Proposal]  
 Pioneer 10/11 Data... NAS2-6553 \$112,781 June 1977 [7<sup>th</sup> Supplemental Proposal]  
 Pioneer Misc. 1977 January-March  
 Pioneer Misc. 1977 April-June  
 Pioneer Misc. 1977 July-December  
 Pioneer Misc. 1978 January-June  
 Pioneer Misc. 1978 July-December  
 Pioneer 10/11 8<sup>th</sup> Supplementary Proposal July 1978  
 Pioneer 11 Encounter, 1 September 1979 [Dinner Celebration, Palo Alto, CA]  
 Progress Report Copies 10/12/79 Extra Copies [One Retained]  
 Pioneer Misc. 1979 January-June

**Box 52**

Pioneer Misc. 1979 July-December [Part I]  
 ---- Part II  
     **Pioneer #2, 1980 – To Date**  
 Pioneer *Science* Preprints: 1979  
 Pioneer Misc. 1980 January-April [Part I]  
 ---- Part II – Saturn's Magnetosphere and its interaction with the solar wind  
 Pioneer Misc. 1980 May and June  
 Pioneer Misc. 1980 July-September [Contains 10<sup>th</sup> Supplementary Proposal]  
 Pioneer Misc. 1980 October-December  
 Pioneer Misc. 1981  
 Pioneer Misc. 1982

**Box 53**

Pioneer 10/11: Misc. 1983  
 Pioneer 10/11: Misc. 1984  
 Pioneer 10/11: Misc. — 1985 [Part I]  
 ---- Part II  
 Suppl. Proposal FY 84 [NAS2-11125]  
 NAS2-6553 Closeout Proposal 7/18/84  
 Supplemental Proposal 11/1/84-10/31/85 [NAS2-11125]  
 Tech + Cost Proposals NAS2-11125 June 1985  
 UI/GTT Data: P10/11 PSG Mtg. 12-13 June 1986  
 [Quarterly] Progress Reports: NAS2-6553 [1 October 1977-30 September 1979]  
 Progress Reports: NAS2-6553 [1 October 1979-30 September 1981]  
 Progress Reports: NAS2-6553 [1 October 1981-30 September 1985]  
 Final Report: NAS2-6553 [18 July 1984]



Pioneer: Data forwarded routinely to Dr. Ed Smith/JPL  
PSQG Meeting: Chicago 7-9 June 1988  
Pioneer 10/11 Meeting 3-4 June 1987: Iowa City, IA

**Box 54**

Pioneer 10/11 PSG Meeting: Chicago, IL: 7-9 June 1988  
ARC Proposal 8/5/88 (31 October 1988 – 30 April 1989)  
Revised Pioneer Proposal - 12 October 1988  
Pioneer 10/11 Misc. 1986  
Pioneer 10/11 Misc. 1987  
Pioneer 10/11 Misc. 1988  
Pioneer 10/11 Misc. 1989  
ARC/NASA Proposal Grant NAG 2-571 \$104,800 8/1/91-7/31/92  
P10-P11 Proposal: Archiving Cruise Data 12/14/89  
ARC Supplemental Proposal: \$101,286 Grant ANAG 2-571 6/15/90  
Final Report NAS2-12327, 9 July 1991  
U of Iowa 92-1 Preliminary Survey of Pioneer 10/Pioneer 11 Cosmic Ray Data for 1991  
Pioneer 10/11 Proposal 26 June 1992 8/1/1992-7/31/1995  
NAG2-571 Supplemental Funding \$20,269, 1 March 1993  
NAG 2-571 Pioneer Proposal 8/1/93-7/31/94: \$157,692 20 May 1993  
NAG 2-571 Pioneer Proposal 8/1/94-7/31/95: \$165,941 12 May 1994  
NASA/ARC 1995 Proposal 8/1/95-7/31/1998: \$503,573, Pioneer 10/11  
Pioneer 10/11 Proposal 18 April 1995, 8/1/95-7/31/1998  
Pioneer 10/11 Proposal 6/7/96 (8/1/95-7/31/1998 \$265,015)  
Pioneer 10/11 (Misc.) 1990

**Box 55**

Pioneer 10/11 (Misc.) 1991  
Pioneer 10/11 (Misc.) 1992  
20<sup>th</sup> Anniversary Celebration: Pioneer 10, 2 June 1992  
Pioneer 10/11 (Misc.) 1993  
Fimmel, Richard, Retirement 5/3/94  
Pioneer 10/11 (Misc.) 1994  
Pioneer 10/11 (Misc.) 1995

**Box 56**

**Material filed by Mrs. Robison: ARC – P10/11 1985-92**

Pioneer 10/11 Correspondence from 1997 and 1998  
JAVA's Brown Folder: Pioneer 10/11 Status Reports 1993-95 (incl) [Part I]  
---- Part II  
JAVA's Brown Folder: "Ames Research Center 1993-94" [Part I]  
---- Part II  
Material from Pioneer PSG Meetings in December 1994 and 1995  
Folder Marked "PSG 1994" — Material relating to B. Randall's presentation, meeting  
summary and a "Get-well-soon" card  
---- Misc. Material, viewgraphs, papers and notes

**Box 57**

---- Misc., mainly correspondence  
 Folder Marked "PSG 6/93" — JAVA's 3 memo books  
 ---- Miscellaneous  
 ---- Agenda, summary and other publications  
 JAVA's Brown Folder: "Ames Research Center 1991-1992" [Part I]  
 ---- Part II  
 JAVA's Brown Folder: "Ames Research Center 1990-1991" Left side, part I  
 ---- Left side, part II, center panel

**Box 58**

JAVA's Brown Folder: "Ames Research Center 1988-1990" Part I  
 ---- Part II  
 JAVA's Brown Folder: "Ames Research Center 1986-1988" Part I (left side)  
 ---- Part II (left side and center)  
 JAVA's Brown Folder: "Ames Research Center 1985-86" Part I  
 ---- Part II  
 P10/P11 Progress Report NAS2-12327 — 1 November 1985 – 30 June 1986  
 P10/P11 Progress Report NAS2-12327 — 1 July 1986 – 30 June 1988  
 P10/P11 Progress Report NAS2-12327 — 1 July 1988 – 31 August 1989 PROG-1  
 P10-P11 Progress Report Nag 2-571 — 1 September – 30 November 1989 PROG-2

**Box 59**

P10-P11 Progress Report Nag 2-571 from 1 December 1989 to 30 January 1991  
 (PROG3-PROG6)  
 P10-P11 Progress Report Nag 2-571, PROG-7 to PROG-11 from 1 February 1991 to 30  
 April 1992  
 P10-P11 Progress Report Nag 2-571 from 1 May 1992 to 31 July 1994 (PROG-12 –  
 PROG20)  
 P10-P11 Progress Report Nag 2-571 from 1 August 1994 – 31 Jan. 1997 PROG-21 -  
 PROG-30  
 P10-P11 Progress Report Nag 2-571, 1 Feb. 1997 – 31 Oct. 1998 PROG-31 – PROG-37

**Material filed in Dr. Van Allen's office: ARC Brown Folders and Pioneer PSG Meetings**

**Box 60**

JAVA's Brown Folder: "Ames Research Center 1995-1996" Part I  
 ---- Part II  
 JAVA's Brown Folder: "Ames Research Center 1996-[1997]" Part I, left side  
 ---- Part II, remainder of left side, center panel  
 JAVA's Brown Folder: "Ames Research Center 1998-1999" Part I  
 ---- Part II  
 Pioneer/Jupiter Newsletter — 23 February 1972-8 May 1972  
 Pioneer 10 and 11 Heliospheric Mission by P. Dyal and R.O. Fimmel, ARC 1982 [Part I,  
 chapters 1-7]

**Box 61**

---- Part II, chapters 8-11

JAVA's Folder: "Pioneer 10 (6/83)"

Pioneer 10/11 PSG Meeting, 3-4 June 1987, University of Iowa

Pioneer Missions Quarterly Review, 14 May 1987, Pioneer Project Review 25 August 1987

Boulder Heliospheric Physics Meeting 20-22 October 1987

Pioneer 10/11 PSG Meetings 25 May and 6 December 1989

Pioneer 10/11 PSG Meeting, 6-8 June 1990, ARC

**Box 62**

Pioneer 10/11 PSG Meeting in Arecibo, 27-29 March 1991, Part I

---- Part II

---- Part III

Pioneer 10/11 PSG Meeting, 2-3 June 1992, University of Maryland, Part I [JAVA's 20<sup>th</sup> Anniversary Summary]

---- Part II

Update of Bibliography of Pioneer 10/Pioneer 11 Publications [with JAVA's corrections] 26 October 1992

Information for Pioneer Program Manager, 25 December 1992-18 October 1990

Information for Pioneer Program Manager, 17 October 1990-29 December 1988

**Box 63**

Information for Pioneer Program Manager, 22 December 1988-10 September 1987

Pioneer 10/11 PSG Meeting Packets for 2-5 June 1993 and 2-4 June 1993

Pioneer PSG Meeting 2-4 March 1994 at UCSD

JAVA's folder "Meteoroids" Part I [See also: Box 21, "Survival of a Thin Mica Window..."]

---- Part II

---- Part III

Pioneer PSG Meetings: 3/8/95 at ARC and 7/24/96 at U of Chicago, Part I

---- Part II

**Box 64**

**Hawkeye**

Correspondence

Contract correspondence (NAS1-13129, NAS5-20539, NAS5-30941)

Proposals

Hawkeye Orbit – J.L. Luthey, "Synopsis of the orbit constraints for the Hawkeye I neutral point explorer." May 1973

"The University of Iowa Hawkeye Flight Satellite Procedure for Magnetic Compatibility..." Oliven & Fliher, May 1974, Part I

---- Part II

JAVA's Folder: "Hawkeye - Post Launch"

JAVA's folder: "Mag. Literature" – Data recovery log from 1976 & U of I 77-6

**Box 65**

JAVA's Folder: "Hawkeye Mag." – Basic Hawkeye file on early magnetometer & optical aspect determinations to B. Randall on 1/7/78

JAVA's Brown Folder: "Hawkeye Data Archiving – 1990-"

Hawkeye Archiving

Hawkeye Misc.

Voyager Project

Voyager 2 Misc.

Mariner Jupiter Saturn (MJS)

Voyager 2 at Uranus: Correspondence to 13 January 1986

---- Correspondence 28 January 1986 – April 1986

---- JAVA's blue composition book: "Uranus: Jan-Feb 1986"

---- Graphic material 23 January 1986 – 31 January 1986

**Box 66**

Voyager 2 at Uranus: Photographs

---- "Geometric relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86" by JAVA, June 1984

---- JAVA's unlabeled blue binder, Part I

---- JAVA's unlabeled blue binder, Part II

---- Papers (Includes some material by JAVA)

---- Papers (continued)

---- Planetary Society Material

**Box 66a**

Voyager Neptune – Correspondence and Reference Material

---- LECP Neptune Encounter Paper

---- Norman Ness' paper "Magnetic Fields at Neptune" with JAVA's comments

---- NASA Press Kit and JPL Fact Sheet

**Joint mission analysis**

IMP H, Pioneer H and Helios-A

Solar Electron Events 14 June – 30 November 1967 (Mariner V, Explorer 33 & 35)

Pioneer 10, IMP-8

Hawkeye/IMP-6

Pioneer 6, IMP-3, Injun IV and Climax Neutron Monitor

**Box 67****4. Spacecraft Missions, Departmental Research**

JAVA's Brown Folder: "LOFTI"

IMP-7 (H)

IMP-8 (J)

IMP-6 (I)

UK-4 (Dr. Frank)

Helios

Spacelab (PDP)

S3 (Small Standard Satellite)

**5. Van Allen's Proposed Instruments That Never Flew**

Mariner Mars, 1971

Hawkeye II

**6. Other Research**

**a. Balloons**

Project Skyhook

**b. Expeditions**

Rockoon correspondence 1952-56

Starfish Test

Project Vanguard Papers

**7. Security Files**

Correspondence

Early JAVA Security Clearance

Sanitized copies of "High Altitude Nuclear Effects," Part I

---- Part II

JAVA's Brown Folder: "Security" (re: Obtaining classified material from the Department of Energy)

**C. Reference & Subject files**

**1. Soviet File**

**Box 68**

"Preprints of USSR Papers..." COSPAR – Warsaw, June 1963

Soviet File: Pamphlets from 1965

----Journal from 1969, issue 5

----Journal from 1969, issue 8

----Papers

1991 Mailing from the USSR Academy of Sciences Special Astrophysical Observatory:

"Astronomy of the 21<sup>st</sup> Century"

**2. Instrument Brochures**

Instrument Brochures

**Box 69**

**3. Miscellaneous Subject Files**

JAVA's Folder: "Bremsstrahlung" (part I)

---- part II

JAVA's Folder: "Cosmic Rays"

JAVA's Folder: "Energy"

JAVA's Folder: "EON: 1961-1964" part I

---- Part II

**Box 70**

JAVA's Folder: "Geomagnetism"

JAVA's Folder: "Magnetic Shielding"

JAVA's Folder: "Planetary Magnetism"

Satellite Use

"Signal-to-Noise Ratio: a technical note" 7 June 1960

JAVA's Folder: "Solid State"-papers and conferences

---- Oak Ridge National Laboratory Physics Division Annual Progress Report

---- Army signal engineering laboratories material

---- ORTEC

---- Hughes material

---- other material

**Box 71****4. Newspaper Clippings**

Newspaper articles about or featuring JAVA

Clippings before 1980 [See also: Box 108 for oversized materials]

Miscellaneous obituaries and comics

1981-1983

1984

1985

1986

1987 – I

1987 – II

**Box 72**

1988 – I

1988 – II

1988 – III

1989

1990

1991

**Box 73**

1992

1993

1994

1995

1996

1997

1998

1999-2001

Undated clippings

**D. Advisory and Professional Activities**

**1. Committees, Panels and Working Groups**

**a) Groups Present in 1993 Finding Aid**

**Box 74**

**IGY**

IGY Correspondence

Rockoons

TPESP

**Space Science Board (SSB)**

SSB Miscellaneous 1961-1967

JAVA's Gray Composition Book: "SSB" [Space Science Board Meeting at Manned  
Spacecraft Center, 24 March 1967]

SSB – 1968 Summer Study

1968 USSR Report to COSPAR

SSB – 1969 Physics of the Outer Planets Summer Study

SSB – 1969 "Physics of the Earth in Space: The Role of Ground-Based Research" (Draft)

October 1969 – Space Task Group Report

**Box 75**

1969 Report to the SSB on Space Science and Applications Programs

1969 Miscellaneous

SSB – 1970s (Miscellaneous)

Major Directions Summer Study: Correspondence June 1984-30 July 1985

---- Task Group Preliminary Reports

---- Task Group on Planetary Exploration (TGPLEX) Draft Report – 30 July 1985

---- JAVA's composition book ("SSB") and blue folder

---- Material from 1 August 1985

**Box 76**

---- Miscellaneous Documents

Space Science Board Retreat #2, Beckman Center. Irvine, California 16-19 January 1989

Part I (From JAVA's folder "Space Studies Board)

---- Part II (From JAVA's folder "Space Studies Board)

---- Part III (From JAVA's folder "Space Studies Board – includes viewgraphs for  
JAVA's talk)

SSB – 1980s (Miscellaneous)

Committee on Planetary and Lunar Exploration (COMPLEX) Summer Study 15-19 July

1991 [See Also: Box 11]

**Box 77**

LPMB/NASA

AURA Executive Committee Meetings March 1969-March 1970

AURA Correspondence – 1970-1993

**Box 78****Particles and Fields Subcommittee**

Particles and Fields Subcommittee (SSCC/NASA) Miscellaneous

JAVA's Folder "NASA Steering Committee" Part I

---- Part II

---- Part III

Energetic Particles Team

**Galileo**

JAVA's Brown Folder: "Galileo – IDS"

Galileo material: February 1980-May 1986

Galileo Material December 1988-March 1995

ESRO/NASA Mission Definition Group for PJO

Office of Technology Assessment

Iowa Wesleyan College

**b) Groups Not Present in the 1993 Finding Aid****Box 79**

American Society for Photogrammetry and Remote Sensory

Governor's Science Advisory Council

ISAT (Iowa Satellite Project), Design reports

---- Correspondence from June and July 1994

---- Iowa Orbiting Wave Analyzer material

---- Miscellaneous

Iowa Endowment 2000, material dated from 21 January 1986 to 2 December 1987

---- Material dated from 11 December 1987 to 25 February 1988

**Box 80**

---- Material dated from 25 February 1988 to 4 May 1988 (includes brochures)

---- Material dated from 14 July 1988 to 19 December 1988

JPL/Visiting Senior Scientist Program – 1986-87

JPL/Visiting Senior Scientist Program – 1988-89

JPL/Visiting Senior Scientist Program – 1990-1992

NASM (National Air and Space Museum) Correspondence

---- Correspondence, continued

---- 1996 NASM Trophy, ballot

---- "JAVA Papers and Related Collections" Grant Material [See also: Box 20]

---- "JAVA Papers and Related Collections" distribution list

**Box 81**

1995 Presidential Search Committee – Correspondence and notes dated 14 December 1994-25 June 1995 [See also: Box 24]

---- Correspondence and notes dated 26 June 1995-17 April 1996 [includes a one-act celebratory play]

---- Newspaper clippings



SAAC (Space Applications Advisory Committee)

## **2. Professional Societies and Other Affiliations**

### **Box 82**

American Association for the Advancement of Science

American Astronomical Society

---- Kuiper Prize

American Aeronautical Society

American Geophysical Union (AGU)

---- Correspondence

---- Meeting of the Council, August 13 1965

---- Meeting of the Council, April 18, 1966, Annotated agenda

---- Flinn Award 1990-1991

---- 75<sup>th</sup> Anniversary, 23-27 May 1984 [See also: Box 20]

---- Correspondence concerning the JGR

AIAA

AIP

American Physical Society

American Rocket Society

### **Box 83**

The Cosmos Club

COSPAR Twelfth Plenary Meeting and Tenth International Space Science Symposium

COSPAR- Miscellaneous

International Academy of Astronautics (IAA)

International Astronomical Union

IEEE

International Union of Geodesy and Geophysics

Iowa Academy of Science

---- Meeting in Mt. Vernon, IA 21 April 1979

Planetary Society

National Academy of Sciences

---- NAS & WQED/Pittsburgh Television project: "Space Age" [See also: Box 13]

National Institute for Atmospheric Research (1959)

The Royal Swedish Academy of Sciences

Space Science Working Group (Sample newsletter)

## **3. Refereeing and Reviews**

### **Box 84**

#### **a) Journal of Geophysical Research**

Reviews to 10 October 1989

Reviews from 17 October 1989 to July 2000

#### **b) Other Reviews**

JAVA's File "Dr. Francis Moore," part I

---- Part II (manuscript: "Why Put People in Space?")

Nature Review

Washington University – Space Sciences Review, 1983  
Miscellaneous Reviews

### **E. Conference Files**

Miscellaneous

#### **Box 85**

JAVA's File Folder: "Barcelona," Part I

---- Part II

JAVA's Brown Folder: "Barcelona" left side (10-16 September 1956)

---- "Barcelona" center

Midwest Cosmic Ray Conference, U of I. 1-3 March 1968

Earth's Particles and Fields, 1969 Summer Advanced Study Institute

SALT II – Conference at the White House, 5 June 1979

Symposium on the Effect of the Ionosphere on Radio Wave Systems, 14-16 April 1981

Saturn, 11-15 May 1987

Space Environment and Communications Workshop 16 and 17 May 1985

#### **Box 86**

NASM Conference on the First Principles For Governance of Space Societies. 4-6

December 1986, part I

---- Part II

AAAS Annual Meeting. Chicago, 14-18 February 1987. The Future of the Space  
Sciences in the United States

Space Science Board's 30<sup>th</sup> Anniversary Symposium 27 June 1988

Symposium on the Outer Heliosphere, University of New Hampshire: 21-24 May 1989

[from JAVA's folder: Heliospheric Conference], part I, correspondence

---- Part II, reprints

#### **Box 86a**

1989 Crafoord Prize — Correspondence, part I

---- Correspondence, part II

---- JAVA's remarks at the banquet in the Hall of Mirrors of the Grand Hotel in  
Stockholm, 27 September 1989

---- "Magnetospheres of the Planets," 27 September 1989

---- "Active Experiments in Magnetospheric Physics," 28 September 1989

---- Notes and memo book

---- Congratulatory letters

---- Miscellaneous

---- JAVA's Folder: "Stockholm Papers" Part I

---- JAVA's Folder: "Stockholm Papers" Part II

#### **Box 87**

JAVA's folder: "ESA/Paris" — Symposium for Reinmar Lüst, 27 September 1990, Part I

---- Part II

1990 Kristian Birkeland Lecture — Correspondence and Manuscript, Folder I [See Also: Box 8]

---- Correspondence and Manuscript, Folder II

---- Miscellaneous folder I, part I

---- Miscellaneous folder I, part II

---- Miscellaneous folder II

### **Box 88**

Solar Wind Termination Workshop, Applied Physics Laboratory, 22-23 January 1992

6<sup>th</sup> Annual AIAA/Utah State University Conference on Small Satellites, Logan, Utah 21-24 September 1992

Tau Beta Pi's 1994 Paul D. Scholz Symposium on Technology and It's Role in Society, 17 March 1994 [See Also: Box 22]

Second Pioneer-Voyager Symposium on Energetic Particles and Fields in the Outer Heliosphere, June 1994

## **F. Trip Files**

### **Box 89**

Trip Files, Miscellaneous

Blue Binder: "Trip File 1984-1985"

Blue Binder: JAVA Trip File 1986/1987"

Blue Binder: "1988-1990 Trips"

Blue Binder: "1991-1992 Trips – 1993 1994 1995"

Trips 1995

Travel Expense Vouchers [for 1996 Trips]

File folder: "Trip 97"

### **Box 90**

1984 Trips

1985 Trips

1986 Trips

1987 Trips

1988 Trips

1989 Trips

1990 Trips

1991 Trips

1992 Trips

1993 Trips

1994 Trips

1995 Trips

## **G. Van Allen's Professorial Material**

### **1. Lecture Notes and Class Material**

### **Box 91**

Misc. Physics Papers (n.d.)

29:131 Radio Astronomy, Spring 1962  
 29:61 General Astronomy, Spring 1967  
 29:61 General Astronomy, Fall 1968  
 JAVA's Brown Folder: 29:235 Solar and Planetary Physics 1968-69 (left side)  
 ---- (right side)  
 ---- Enclosed lectures by Dr. Gurnett  
 Misc. Papers: Spring 1970 Compton Effect and Kein-Nishina Cross-section  
 29:61 General Astronomy, Fall 1971  
 29:105 General Astronomy Fall 1971  
 29:61 General Astronomy Fall 1972  
 29:61 Fall 1976  
 29:61 Fall 1981

### **Box 92**

29:61 Fall 1982  
 29:61 Fall 1983  
 Moon Exercise Fall 1983  
 29:61 Fall 1984  
 Miscellaneous: Physics of the Upper Atmosphere Lecture Notes (Physics 671-1)

## **2. Advisee Files**

### **Box 93**

Advisee Files, Miscellaneous  
 Evaluations and Recommendations (Miscellaneous)  
 Åkersten, S. Ingvar  
 Åkersten, S. Ingvar — MS Thesis: "Occultation of Solar X-Rays by Model Planetary Atmospheres" (Part I)  
 ---- Part II  
 Anderson, Hugh  
 Baker, Daniel N – Thesis  
 Enemark, Donald C. – PhD Thesis, "Feasibility Study and Design of an Antenna Pointing System with an In-Loop, Time-Shared Digital Computer," January 1970  
 Craven, John D.: PhD Thesis – "On the Decomposition of Magnetospheric Electrons into the Earth's Upper Atmosphere." August 1969 (Part I)

### **Box 94**

---- Part II  
 Drake, Jerry F., MS Thesis – "A Review of Jovian Radio Emission," June 1967  
 Drake, Jerry F., Paper (March 1970)  
 Gaur, Sharad, MS Thesis: "The Very-Long Base Line Radio Interferometer and its Use in Determining Source Characteristics," July 1970  
 Gibson, Jean O.S.B. MS Thesis, Draft  
 Gibson, Jean, O.S.B., "Soft X-Ray Flux from the Quiet Sun..." 5 November 1968 Draft  
 Gibson, Jean OSB., PhD Thesis: "The Correlation of X-Ray Radiation (2-12 Å) With Microwave Radiation (10.7 cm) from the Non-Flaring Sun," June 1969 (Revised)

**Box 95**

---- “Gibson X-Ray Paper” [contains comments from JAVA]

Hansen, James

Innanen, William G., MS Thesis: “Solar Particle Observations from 24 January to 24 February 1967,” February 1968.

Innanen, William G. Revised M.S. Thesis

Innanen, William G. Publications

Innanen, William G., PhD Thesis: “Anisotropies in 0.3 MeV Solar Protons,” May 1972

Kelsey, Linda J., MS Thesis: “Spectrophotometry of Pluto 1972,” July 1972

O’Connor, Michael D.

Oliven, Melvin N.

Pesses, Mark E.

**Box 96**

Rajbhandary, Yamal Chandra

Randall, Bruce A. MS Thesis: “Solid State Detectors on Injun V,” June 1969

Rankin, John M. PhD Thesis: “The 1969 Solar Occultation of the Crab Nebula Pulsar NP0532,” May 1970

---- Material found with J.M. Rankin’s Thesis

Thomsen, Michelle F. — Papers

Wende – PhD Thesis: “The Correlation of Solar Microwave and Soft X-Ray Radiation,” August 1968 [part I]

---- Part II

**H. Calendars**

**Box 97**

Calendars (1989/90, 1991/92, 1993/94, 1997/98)

**I. Van Allen’s Research Notes, Van Allen’s Holographic Notes**

Sample of undated holographic notes

Bundled undated holographic notes

JAVA’s Holographic Notes: 1951-1979

---- 1985-1993

---- 1994-1999

**J. Speeches and Congressional Testimony**

**1. Speeches and Lectures**

**a) Delivered Speeches and Lectures**

**Box 98**

Speeches and Lectures Correspondence

Accademia Nazionale Dei Quaranta lecture: “The Conquest of Space”

American Association for the Advancement of Science: Abelson Prize, 28 May 1986  
(Philadelphia)

American Consulting Engineers Council, 8 August 1978

AGU Fleming, John Adam Award, 18 April 1963

“Aerospace 86,” Annual Meeting of the American Institute of Aeronautics and  
 Astronautics 29-30 April, 1 May 1986  
 Augustana College, 25 May 1969 (Honorary Degree)  
 Brief Testimonial, 11-20-95 (2p, concerns JAVA’s teachers)  
 Butler University Commencement Address, 12 June 1966  
 Coe College Address, 1 November 1982  
 Center for Strategic and International Studies – Space Policy Group Meeting 28-29 July  
 1988  
 Central Association of Science and Mathematics Teachers – 25 November 1961  
 The 27<sup>th</sup> Cosmos Club Award Ceremony, 26 April 1990, Polder I  
 ---- Folder II  
 David Brinkley Show/ABC-TV, 25 January 1987 (canceled)  
 The 1990 Nevada Medal from the Desert Research Institute, 4 April 1990  
 Banquet address to the Division for Planetary Sciences/American Astronomical Society,  
 18 October 1983  
 Eddyville-Blakesburg Community School District –ICN Program 19 February 1998  
 Ford, 16 February 1979  
 George Washington University, 29 January 1975

### **Box 99**

“Myths and Realities of Space Flight” – Engineering Colloquium at GSFC, 9 March 1987  
 Induction into the International Space Hall of Fame, Alamogordo, NM 29 September  
 1984  
 Iowa Academy of Science, JAVA: Distinguished Fellow, 18 April 1975  
 “Recollections from the class of 1935” IWC Founders Day, 13 February 1992 [See also:  
 Box 15]  
 1991 Eleventh Annual MIT Symposium, Alvé Lecture: “The Magnetosphere of the  
 Eight Planets and the Moon” 24 January 1991 [See Also: Box 11]  
 Mount Ayr Community School – ICN Program 19 January 1995  
 20<sup>th</sup> Anniversary of Pioneer 10 and 19<sup>th</sup> Anniversary of Pioneer 11 at the Langley Theater  
 of the National Air and Space Museum, 2 June 1992  
 National Science Board 1991 Vannevar Busch Award – 8 May 1991 – Speech and  
 material from the ceremony [See Also: Box 10]  
 ---- Correspondence  
 National Science Foundation — National Medal of Science, 23 April 1970  
 Philosophical Society of Washing D.C., 30 October 1987  
 Pioneer Hi-Bred Seed Co. Keynote Speaker, 20 January 1991 [See also Box 13]  
 Planetary Society Lecture, 3 April 1997  
 President’s Club Tour, 28 April and 5 May 1984  
 Roger Randall Retirement Party, 22 February 1994  
 Royal Astronomical Society, 13 January 1978  
 Sigma Xi talk: Future of the Space Sciences in the United States [A Critique of National  
 Space Policy] 30 April 1987  
 Society of Wilson Descendants, 5 August 1990 — 70<sup>th</sup> Annual Meeting

**Box 100**

Southampton College, Long Island University, 20 August 1967 (Honorary Degree)  
International Cooperation in Outer Space at the Stanley Foundation's 15<sup>th</sup> Strategy for  
Peace Conference. 17-20 October 1974, Part I  
---- Part II  
---- Part III, conference report  
State University of Iowa – 19 March 1958, "Satellites"  
Summer Science Leadership Institute, 26 June 1997  
United Nations Association of the United States, October 1986  
"Space Technology" Lecture: "Observations with Satellite-Borne Apparatus," April 1958  
at UCLA  
University of Iowa Carver Professor, February 1972  
University of Iowa Lecture Series, 11 December 1969 "Space Science and Technology"  
U of I Lecture Series, Second Annual Distinguished Lecture: Dr. Carl Sagan [See Misc.  
A-Z, 1992, Box 16]  
"The Modern Saga of Planetary Exploration," 2 February 1992, The University of Iowa  
Ninth Annual Presidential Lecture  
Remarks to the Workshop on Writing in the Arts and the Sciences on 5 February 1979  
Statements to the press by Dr. Van Allen  
Speeches & Lectures, Miscellaneous

**b) Interviews**

Interviews, Miscellaneous  
BBC Panorama, 18 June 1962 (transcript)  
Popular Science, February 1963 "James Van Allen Tells What Space is Like"  
Bulletin: Interview with JAVA – "Experiment Aboard Pioneer 10 and 11 Spacecraft," 9  
July 1973

**Box 101**

Quest, 26 October 1976  
International Communication Agency, June 1979, "Exploration of the Planets"  
"The Aurora... A Spectacular Symphony of Light and Color," April 1981  
Omni Article By Steven R. Dahlman, May 1982  
26 November 1986 – "This is Your Life, Dr. William Pickering" – Television New  
Zealand  
"Space Hero on Earth" David J. Kanter, ca August 1998  
Science Film for Science Seminar, 18 May (?)

**2. Congressional Testimony**

**Box 102**

US Senate Correspondence  
US House of Representatives Correspondence  
Statement before the Select Committee on Astronautics and Space Exploration, US  
House of Representatives, 28 April 1958  
Statement to the House, January 28, 1970

Testimony, 6 October 1970, Concerning the Space Program of the United States to the House Committee on Science and Astronautics, Subcommittee on NASA Oversight  
 Statement to the Appropriations Committee of the US Senate, 29 June 1971  
 Testimony before the Committee on Aeronautical and Space Sciences – 9-10 April 1973 and Summary of Testimony  
 Statement before the Subcommittee on Space Science and Applications of the Committee on Science and Technology of the US House of Representatives, 5 March 1981  
 Committee on Space Science and Technology, House of Representatives, 8 October 1973  
 Congressional Testimony, 7/22/86 – Senate Subcommittee on Science, Technology and Space  
 Testimony before the Senate Subcommittee on HUD-Independent Agencies, Senate Appropriations Committee, 1 May 1987  
 Statement before the Subcommittee on Space Science and Applications of the Committee of Science, Space and Technology, US House, 5 February 1988  
 Testimony for the Advisory Committee on the Future of the U.S. Space Program, 19 November 1990  
 Testimony for the Advisory Committee on the Future of the U.S. Space Program

## **K. Space Policy**

### **1. Space Policy Correspondence**

#### **Box 103**

Correspondence to 1986  
 1987-1989  
 1990s

### **2. Van Allen's Space Policy Files/Folders**

From JAVA's folder "Miscellaneous Points"  
 Correspondence from JAVA's "Space Policy" File [re: OTA appointment, National Space Council, CRAF/Casino, etc.]  
 Space World article and letter from Siud (From JAVA's "Space Policy" file)  
 Correspondence regarding AGU's Space Station Position (From JAVA's "Space Policy" File)  
 Popular Science "Is the US Lost in Space?" July 1989 (From JAVA's "Space Policy" File)  
 Poker Flats Material (Mostly from JAVA's "Space Policy" File)  
 Misc. Material from JAVA's "Space Policy" file  
 JAVA's Folder "Politics," Part I [Material from October 1970-February 1971, pertains to his 1970 testimony before the House Subcommittee on NASA Oversight]

#### **Box 104**

---- Part II, Material from April 1971 to July 1971, pertains to his June testimony and other NASA issues, including Gold's falling out with NASA  
 ---- Part III, material from January 1972 to July 1972 concerning debate of the STS  
 ---- Part IV, miscellaneous publications  
 Shuttle File, material from JAVA  
 Shuttle File, material not originating from JAVA



Sample “Myths Packet”

**3. Reference folders, Miscellaneous**

Space policy material originating from Dr. John Neff  
Space policy documents from government sources  
1988 presidential elections

**Box 105**

Miscellaneous space policy documents  
Miscellaneous space policy holographic notes

**4. Van Allen’s Space Policy Publications**

Miscellaneous publications  
“US Space Science and Technology” *Science*, 30 October 1981 (Editorial and  
Comments/Letters)  
*Scientific American*, January 1986, “Space Science and the Space Station”  
*Aviation Week & Space Technology*, March 31, 1986, Letter to the Editor “Space  
Exploration Issues”  
“Myths & Realities of Space Flight,” *Science*, 30 May 1986  
Response to “Myths & Realities ...” 5 July 1986  
Interview in *US News & World Report*, 25 August 1986  
10 November 1986 – “Myths & Realities of Space Flight” – Responses to article  
published in *The Bent*  
“Space Station — The Next Logical Step to National Distress,” *International Security*,  
Spring 1987  
“Space Station and Manned Flights Raise NASA Program Balance Issues” – *Aviation  
Week and Space Technology* (25 January 1988) – includes letters in response to the  
article  
“What Went Wrong and What to Do About It” *The Scientist* (19 September 1988)  
“Toward a Stable Space Policy” *The Bent of Tau Beta Pi*, Summer 1994  
“Space Station, a.k.a. ‘Project Vampire?’” *Science*, 19 August 1998 (letter)

**Series II. Manuscripts and Publications**

**Box 106**

Miscellaneous Publications  
JAVA’s Folder: “U. of Michigan Press,” *Scientific Uses of Earth Satellites*  
JAVA’s Brown Folder: “*Scientific Uses of Earth Satellites*”  
“Diffusion of Solar Cosmic Rays and the Power Spectrum of the Interplanetary Magnetic  
Field” by Nathan & JAVA, 1968  
“Energetic Electrons in Jupiter’s Dawn Magnetodisc” by JAVA, dated 12 December  
1978  
“Plasma in the Jovian Current Sheet” Drafts from 13 December 1978, 10 January 1979  
and 24 January 1979  
“The Acceleration of Energetic Charged Particles by Interplanetary and Supernova Shock  
Waves” by M. E. Pesses and J.A. Van Allen, January 1979

“Origins of Magnetospheric Physics,” 1983 (Miscellaneous)

“Early Days of Space Science” 28 July 1987

“The Future of Space Science in the United States” (from JAVA’s Folder: “AAAS Book”), Part I

---- Part II

---- Part II, Draft: 2 March 1988

### **Box 107**

“Where is the Cosmic-Ray Modulation Boundary of the Heliosphere?” 2 November 1989 (final copy)

---- 2 November 1989 – Correspondence, reprints

“Radiation Belts” letter dated 1 May 1991

“Perturbation of the Inner Radiation Belt in February-March 1958” 1 November 1991

“924 Elementary Problems & Answers in Solar System Astronomy,” 1993

JAVA’s folder concerning “Cosmic Rays, the Sun, and Geomagnetism: The Works of Scott E. Forbush,” Part I [See also: Box 19]

---- Part II

EOS News Item, 1994

Introduction for Dr. Fix’s book, rough draft – 25 July 1994

“History of Planetary Sciences II; Space Age” Encyclopedia of Planetary Science. J.K. Shirk and R.W. Fairbridge, eds. New York: Chapman and hall, 1996 pp. 302-309

“Cosmic Ray Intensity in the Outer Heliosphere” rough draft (April 1996)

“My Life at the Applied Physics Lab” 28 July 1996

“Mean Free Paths of Solar Electrons ( $E_e \geq 45$  KeV) in the Interplanetary Medium,” 1998

### **Series 3. Oversized Material**

#### **Box 108**

Mariner IV Data plot

*Rand McNally Space Age Atlas*, 1962

*Time Magazine*, May 25, 1959

*Life Magazine*, October 22, 1945 “Proximity Fuse,” page 99

*Saturday Evening Post*, September 6, 1947

*Collier’s*, January 27, 1945

## **The Physics Department Papers Under James A. Van Allen (1951-1985)**

### **Series I. University Activities**

#### **A. College and Faculty Groups**

##### **Box 1**

Graduate College  
Liberal Arts "Annual Files"  
Miscellaneous University Departments  
Liberal Arts Faculty  
Graduate Faculty  
Faculty Senate  
School of Religion  
University Research Association

#### **B. Committees**

Departmental Executive Officers  
Educational Policy Committee  
Energy Conservation Committee  
General Science & Science Education Advisory Committee  
Executive Committee  
Graduate Council  
University Faculty Council  
Miscellaneous Committees

### **Series II. Physics Department**

#### **A. Correspondence**

##### **Box 2**

Correspondence to 1970  
1970-1976  
1977-July 1985  
Correspondence from July 1985

#### **B. Facilities**

##### **1. Computer Center**

JAVA's Bundle: Departmental Use of University Computer Center U.C.C./1975-1977  
IBM Data Processing binder, addressed to President Hancher, 19 December 1962  
Computer Center, miscellaneous

##### **Box 3**

##### **2. Physics Research Center**

Physics Research Center, miscellaneous  
Physics and Mathematics Building Blueprints: 1-4 of 4  
---- #11-#16 of 43  
---- #17-#24 of 43  
---- #25-#31 of 43  
---- #32-#43 of 43

**Box 4****3. Observatories**

Observatories (Riverside and NLRO), Miscellaneous

“The Handbook of the N.L.R.O. 2cm Solar Patrol” C.D. Wende, March 1969 (Part 1 of 2)

---- Part 2 of 2

**4. Miscellaneous**

Low temperature facility proposal

**C. Administration****Box 5****1. Financial**

Financial, Miscellaneous

Financial, Equipment

**2. Committee Files**

Faculty Meetings

1 March 1977 Faculty Meeting (JAVA’s folder)

3 May 1977 Faculty Meeting

Miscellaneous Committees

Departmental review – 4 February 1974

Departmental review – 1993-1995

Faculty and Committee Meetings from JAVA’s Folder “Academic Matters” 19 March 1973-9 June 1975

**3. Departmental Research Reports**

Publications List 1919-1961

Publications List 1951-1965

Research Reports 1953-1961

Research in space physics/space science, Quarterly and Semi-annual progress reports 17 February 1960-9 November 1961

**4. Miscellaneous**

Miscellaneous material

**Box 6**

1967 Publications and Research Reports

1968 Publications

1969 Publications List [30 December 1969 copy] and abstracts

1970 Publications and Research Reports

Publications in space science from 1 March 1970-31 August 1970

Publications in Space Science during the period 1 September 1970 through 28 February 1971 (NGL 16-001-002)

1971: Research Reports and Publications

1972 Publications and Research Reports

Research Reports and Publications in space science, 1 August 1991 through 31 March 1972 (5 April 1972 NASA Semi-annual status report NGL 16-001-002)

1974 Research Reports

JAVA's Blue Binder: "1977 Research Reports"  
JAVA's Blue Binder: "1977 Publications," part I  
---- part II  
---- part III

**Box 7**

**5. Dr. Van Allen's "Departmental Matters" Brown Folders**

1986-1986, left side 24 June 1986-18 October 1985

---- left side, 16 October 1985-21 June 1981

---- center panel

1987-1988, part I

---- Part II

1988-1989, part I

---- Part II

**Box 8**

**D. Personnel**

Personnel, miscellaneous (to 1979)

Personnel, miscellaneous (from 1980)

Savage, William R.

Personnel, Wage and Salary Review

Tenure consideration for David Montgomery, January 1984

Consideration of tenure for Randy Johnson and Lucien Teig, March 1984

Recruitment Procedures, Summary of — Assistant Professor/Theoretical Plasma Physics  
(1977/78)

Personnel, wage and salary review

Personnel, Wages & Salaries (miscellaneous, undated)

1984/1985 TA appointment Material

Student recruitment/support

**E. Pedagogy**

**Box 9**

Departmental Pedagogical Material, ca. Spring 1960 – Summer 1963

JAVA's unmarked folder containing academic materials, part I (February 1972-March  
1971)

---- Part II (February 1971-July 1969)

Graduate Student Meeting Report, 9 March 1971

Evaluation of 29:1 and 29:2, 18 February 1972

JAVA's folder "Academic Matters," Part I [material from 1972-1975, reverse  
chronological order]

---- Part II

---- Part III

**Box 10**

From JAVA's Bundle "Academic Matters 1974-77" (part I)

---- Part II

Miscellaneous Pedagogical material, 1983-1984

Miscellaneous departmental academic material, 1954-1984  
 Departmental pedagogy, after Spring 1985 and undated  
 Nuclear Engineering Proposal, part I  
 ---- Part II

### **Box 11**

Miscellaneous Physics Department Courses

#### **F. Fellowships and Awards**

Fellowships and Awards, miscellaneous

James A. Van Allen Fund

NASA Predoctoral Traineeship — Institutional Application, 31 July 1969

#### **G. Colloquia and Seminars**

JAVA's Brown Folder: "Seminars + Colloquia – 1968-69"

Colloquia and Seminars

## **Appendix — Addendum to the Publication List of Dr. James A. Van Allen**

### 1993

Van Allen, James A.

Where Is the Cosmic-Ray Modulation Boundary of the Heliosphere?

*Currents in Astrophysics and Cosmology*, edited by G. Fazio and R. Silberberg, Cambridge University Press: pp. 20-32, 1993

Van Allen, J. A.

*924 Elementary Problems and Answers in Solar System Astronomy* [Book]

251 pp. [Iowa City, Iowa: U. of Iowa Press, 1993]

ISBN 0-87590-833-0

Van Allen, J. A., Editor

*Cosmic Rays, the Sun, and Geomagnetism: The Works of Scott E. Forbush* [Monograph] 495 pp.

[Washington, DC: American Geophysical union, 1993]

ISBN 0-87590-833-0

Van Allen, J. A.

The Heliospheric Boundary

*J. Geophys. Res.*, 98, 15,121, 1993

GUIDE TO THE JAMES A. VAN ALLEN PAPERS AND RELATED COLLECTIONS by Christine D.

Halas, Project Archivist [Book]

335 pp. [Iowa City, Iowa: The University of Iowa Archives, 1993]

### 1994

Van Allen, James A.

A 1957 Survey of Cosmic Ray Intensity, 0 to 25 km Altitude and 86°N to 73°S Geomagnetic Latitude

*J. Geophys. Res.*, 99, 17,631-17,636, 1994

Van Allen, James A.

Remarks from the Van Allen Symposium  
*EOS*, 75, 397, 1994

Van Allen, James A.  
Space Station a.k.a. Project Vampire  
*Science*, 265, 1017, 1994

Van Allen, James A.  
Toward a Stable Space Policy  
*The Bent of Tau Beta Pi*, 17-19, Summer 1994

1995

Van Allen, James A.  
Book Review: "Race to the Stratosphere: Manned Scientific Ballooning in America" by David H. DeVorkin  
*Journal for the History of Astronomy*, 26, 177-179, May 1995

Van Allen, James A.  
Book Review: "Science With a Vengeance: How the Military Created the US Space Sciences after World War II" by David H. DeVorkin  
*Journal for the History of Astronomy*, 26, 179-181, May 1995

Van Allen, James A.  
Early Rocket Observations of Auroral Bressmsstrahlung and Its Absorption in the Mesosphere  
*J. Geophys. Res.*, 100, 14,485-14,497,1995

1996

Van Allen, James A.  
Twenty-Five Milliamperes: A Tale of Two Spacecraft  
*J. Geophys. Res.*, 101, 10,479-10,495, 1996

Van Allen, James A.  
1994 Kuiper Prize Lecture: Electrons, Protons, and Planets  
*Icarus*, 122, 209-232, 1996

Van Allen, James A.  
History of Planetary Science II: Space Age  
*Encyclopedia of Planetary Sciences*, edited by James H. Shirley and Rhodes W. Fairbridge, New York: Chapman & Hall, 1996], pp. 302-309

Van Allen, James A.  
Radiation Belt  
*Macmillan Encyclopedia of Physics*, Vol. 3, edited by John S. Rigden [New York: Simon & Schuster Macmillan, 1996], pp. 1321-1322

1997

Van Allen, James A., and Bruce A. Randall  
A Durable Reduction of Cosmic Ray Intensity in the Outer Heliosphere  
*J. Geophys. Res.*, 102, 4631-4641, 1997

Van Allen, James A.  
My Life at APL  
*Johns Hopkins APL Tech. Dig.*, 18, 173-177, 1997

Van Allen, James A.

Energetic Particles in the Earth's External Magnetic Field, pp. 235-251, a chapter in *Discovery of the Magnetosphere*, edited by C. Stewart Gillmor and John R. Spreiter, Vol. 7 of history of Geophysics [Washington, DC: American Geophysical Union, 1997]

#### 1998

Van Allen, James A.

Update of Pioneer 10  
*EOS, Trans. Am. Geophys. Union*, 79, 123, 1998

Van Allen, James A.

Radiation Belts  
*From the Sun: Auroras, Magnetic Storms, Solar Flares, Cosmic Rays*, Edited by S. T. Suess and B. T. Tsurutani [Washington DC: American Geophysical Union, 1998], pp. 23-28

Van Allen, James A.

Mean Free Paths of Solar Electrons ( $E_e \approx 45\text{keV}$ ) in the Interplanetary Medium  
*J. Geophys. Res.* 103, 29,665-29,677, 1998

#### 1999

Van Allen, James A., and Frances Bagenal

Planetary magnetospheres and the Interplanetary Medium  
*The New Solar System*, Fourth Edition, edited by J. Kelly Beatty, Carolyn Collins Peterson, and Andrew Chaikin [Cambridge, MA: Sky Publishing Corporation and Cambridge University Press, 1999], pp. 39-58

Van Allen, James A.

Perturbations of the Earth's Inner Radiation Belt by Two Geomagnetic Storms — Explorer I Revisited  
*J. Geophys. Res.*, 104, 20,001-20,006, 1999

Van Allen, James A.

Response to a Question in  
*The Planetary Report* pp 20-21, November/December 1999

#### 2000

Van Allen, James A.

On the Modulation of Galactic Cosmic Ray Intensity During Solar Activity Cycles 19, 20, 21, 22 and Early 23  
*Geophys. Res. Letters* 27, 2453-2456, 2000

Van Allen, James A.

Scientific Results from Andøya Rocket Range — forward by James A. Van Allen, pp Spi 110-111

#### In Press

Van Allen, James A. and W. R. Webber

Observes Solar Modulation of Galactic Cosmic Ray Intensity in the Outer Heliosphere, 1997-2001  
*Geophys. Res. Letters* In Press 2002.  
Much of the material here belongs in the newspaper clippings files. A large Mariner IV data plot is also to be found here.