Robert L. Forward papers

Finding aid prepared by Sara Seltzer, Processing Archivist.
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Descriptive Summary
Title: Robert L. Forward papers
Date (inclusive): circa 1865-2001, undated.
Date (bulk): 1956-2001
Collection Number: MS 175
Creator: Forward, Robert L.
Extent: 60 linear feet (2 flat boxes, 16 record storage boxes, 24 document boxes, 108 volumes)
Repository: Rivera Library. Special Collections Department.
Riverside, CA 92517-5900
Abstract: The Robert L. Forward papers contain official documents, literary works, correspondence, memorabilia, scientific research, and the personal library of Dr. Robert L. Forward, an American physicist and prolific science-fiction author. The bulk of the papers pertain to Dr. Forward's scientific and literary careers, though material regarding personal accomplishments and activities is also included.
Languages: The collection is primarily in English. Select material is in German, Japanese, Danish, Spanish, and Slavic languages.
Collection Access
This collection is open for research, with the exception of select files and items that are restricted.
Access to restricted materials is subject to approval. Please submit written requests to the Director of Distinctive Collections.
Publication Rights
Copyright Unknown: Some materials in these collections may be protected by the U.S. Copyright Law (Title 17, U.S.C.). In addition, the reproduction, and/or commercial use, of some materials may be restricted by gift or purchase agreements, donor restrictions, privacy and publicity rights, licensing agreement(s), and/or trademark rights. Distribution or reproduction of materials protected by copyright beyond that allowed by fair use requires the written permission of the copyright owners. To the extent other restrictions apply, permission for distribution or reproduction from the applicable rights holder is also required. Responsibility for obtaining permissions, and for any use rests exclusively with the user.
Preferred Citation
[identification of item], [date if possible]. Robert L. Forward papers (MS 175). Special Collections & University Archives, University of California, Riverside.
Acquisition Information
Processing History
Processed by Sara Seltzer, Processing Archivist, 2012.
Biographical Note
The following biography was taken from The New York Times:
"Robert L. Forward, a science fiction writer, physicist and inventor whose 11 novels were inspired by his research into gravitational physics and advanced space propulsion, died at his home in Seattle [on September 21, 2002]. He was 70. The cause of death was cancer, his son-in-law, Ben Mattlin, said.
With his first book, "Dragon's Egg" (1980), Dr. Forward established a reputation as a creator of fantastic worlds that were solidly based on scientific principles. He set "Dragon's Egg" and its sequel, "Starquake" (1985), on a neutron star, a highly compressed remnant of an exploding star where gravity is 67 billion times stronger than Earth's. The star's inhabitants, whom he called cheelas, lived the equivalent of about 45 minutes.
In his final book, "Saturn Rukh" (Tor/Tom Doherty, 1997), his attention to accuracy led him to include an appendix of mathematical tables and astronomical diagrams for readers interested in verifying the maneuvers of the book's spacecraft. He also wrote "The Flight of the Dragonfly" (1984), which he renamed "Rocheworld" and followed with four sequels. Dr. Forward, who held a Ph.D. in physics from the University of Maryland, began his literary career while working as a senior scientist at the Hughes Aircraft Company's laboratory in Malibu, Calif. He often explained that he had advised so many science fiction writers on the technical details of space flight and other scientific issues that he decided to take up writing himself.
At Hughes and later at companies he founded, Forward Unlimited (in 1987) and Tethers Unlimited (in 1994), Dr. Forward devoted his research efforts to propulsion systems for space travel. He studied the potential for antimatter propulsion
For epic interstellar journeys, he envisioned a rocketless vehicle that would be manufactured in space and equipped with an ultrathin sail as big as Texas. The ship would be propelled by a laser beam or high-energy particles shot from Earth; traveling at 55,000 miles per second, it would reach the nearest star system, Alpha Centauri, in less than 50 years. Dr. Forward applied this concept of heavenly sailing ships to a somewhat more practical purpose when he designed a satellite, called a statite, that could hover 200,000 miles above one of the poles, held in place by sails filled by solar winds. In 1993 his design won a patent, one of the 20 that he received.

Robert Lull Forward was born in Geneva, N.Y., on Aug. 15, 1932. He served in the Air Force, reaching the rank of captain. He received his bachelor's degree in physics from the University of Maryland and a master's in applied physics from the University of California at Los Angeles. For his doctorate he built and operated the world's first bar antenna for the detection of gravitational radiation, which is now at the Smithsonian Institution.

He is survived by his wife of 48 years, Martha; three daughters, Julie Fuller, of Ramona, Calif.; Mary Lois Mattlin, of Los Angeles; and Eve Forward-Rollins, of Seattle; his son, Robert, of Los Angeles; and seven grandchildren.

Dr. Forward received much praise for his science fiction novels, although it was sometimes qualified. In The New York Times Book Review in 1993, Gerald Jonas wrote that in "Camelot 30K" Dr. Forward wasted "no time on frills like plot and character development." Still, Mr. Jonas concluded, "he has fashioned an intellectual puzzle, pure and simple, with a wonderfully clever solution that blew my own tentative hypotheses sky-high."


Collection Scope and Contents

The Robert L. Forward papers contain official documents, literary works, correspondence, memorabilia, scientific research, and the personal library of Dr. Robert L. Forward, an American physicist and prolific science-fiction author. The bulk of the papers, dating from 1956-2001, document Dr. Forward's scientific and literary careers. Records are both personal and professional in scope and pertain to business enterprises, the writing and revision of science-fiction and non-fiction literature, extracurricular projects and activities, and research on antimatter, gravity, propulsion, and other physics-related topics. Formats include contracts, patents, manuscripts, publications, correspondence, photographs, notes, and other material.

Collection Arrangement

Material has been kept in the order preserved at the time of acquisition. For many files, this represents the original order maintained by Dr. Robert L. Forward. Consequently, select folders contain items outside the scope of their respective series.

This collection is arranged into six series as follows:

Series 2. Literary works, 1961-circa 1998, undated
Series 3. Correspondence, 1932-2001, undated
Series 4. Memorabilia and personal items, circa 1865-2000, undated
Series 5. Scientific research, 1953-2000, undated

Indexing Terms

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

Subjects
Hughes Aircraft Company. Research Laboratories
Physicists
Physics
Science fiction
Science fiction -- Authorship
Genres and Forms of Materials
Books
Business records
Clippings (information artifacts)
Correspondence

Series Access
Select items in this series are restricted. Access to these materials is subject to approval. Please submit written requests to the Head of Special Collections & Archives.

Series Scope and Contents
This series is comprised of contracts, patents, correspondence, and other material documenting the business enterprises of Robert L. Forward. Records pertain to Dr. Forward's literary works, scientific inventions, and contracted consulting services, including speaking engagements, research and experimentation, and other endeavors.

The correspondence included in this series is either related to the formulary documents contained here, or explicitly pertains to business discussions.

For additional communications pertaining to Forward's business-related activities, please consult "Series 3. Correspondence."

Select documents pertaining to the patenting of inventions and contractual agreements can also be found in "Series 5. Scientific research."

Because many folders maintain the original filing scheme of the creator, select records outside the scope of this series are included.

Series Arrangement
This series is arranged sequentially by box and folder number.

Box 6, Folders 4-5
Contracts, correspondence, and other material regarding select literary works of Robert L. Forward (photocopies) 1979-2000, undated

Note on Access
Restricted.

Box 7, Folder 1, Box 6, Folder 6
Contracts, correspondence, patents, and other material regarding select literary works and scientific inventions of Robert L. Forward (includes photocopies) 1982-2001, undated

Note on Access
Includes restricted materials.

Box 7, Folder 2
Contracts, correspondence, royalties, and other material regarding the publication and sales of Future Magic (includes photocopies) 1965-circa 1993

Note on Access
Restricted.

Box 7, Folder 3
Contracts and correspondence regarding Robert L. Forward's advisory services for the company BlastOff! 2000, undated

Note on Access
Restricted.

Box 12, Folder 17
Patents and patent dockets documenting inventions of Robert L. Forward (includes photocopies) 1966-1986
| Box 13, Folder 2 | Documents regarding the invention disclosure and patentability of Robert L. Forward's Polestat TM space communications system concept 1988 |
| Box 13, Folders 3-4 | Correspondence, application forms, patent, and other material regarding Robert L. Forward's invention Statite: Spacecraft that Utilizes Sight Pressure and Method of Use 1987-1993, undated |
| | Note on Access |
| | Includes restricted materials. |
| Box 14, Folder 11 | Contracts, proposals, and other material regarding Robert L. Forward's study of alternate propulsion energy sources for the Air Force Rocket Propulsion Laboratory (includes photocopies) 1982-1983 |
| Box 14, Folder 16 | Patents regarding inventions developed by Joseph Weber and Joseph Weber et al. 1973 March 27 |
| Box 14, Folder 18 | Correspondence regarding the revision and publication of two submissions to Analog magazine 1989-1990 |
| | Note on Access |
| | Includes restricted materials. |
| Box 15, Folder 7 | Correspondence regarding publication of Camelot 30k and Forward's literary representation. Includes drafts of Camelot 30k prologue copyedited by Robert L. Forward 1992-1993, undated |
| | Note on Access |
| | Includes restricted materials. |
| Box 15, Folder 8 | Correspondence and documents regarding Dragon's Egg, Heaven Must Fall and other proposals, Marooned on Eden, Martian Rainbow, and Timemaster 1992-1993, undated |
| | Note on Access |
| | Includes restricted materials. |
| Box 21, Folder 6 | Correspondence to Robert L. Forward from book publishers 1991 |
| | Note on Access |
| | Includes restricted materials. |
| Box 24, Folders 4-5 | Financial records pertaining to publication, travel, and other work-related expenses, primarily those incurred while under contract with the United States Air Force (includes photocopies) 1987-1992 |
| | Note on Access |
| | Restricted. |
| Box 25, Folders 1-2, Box 24, Folder 6 | Correspondence, financial records, contracts, and other material regarding Air Force Contract No. F04611-87-C-0029 (includes reproductions). Labeled "AF Contract Archives. Ready to bind." 1986-1992 |
| | Annotation by Robert L. Forward |
| | "Archivist: Everything in this box should be bound in one volume in the order arranged."
| | [Binding never completed.] |
| Box 25, Folder 10 | Financial records, documents, and reports regarding Air Force Contract No. F04611-83-C-0046 (includes photocopies) 1984-1985, undated |
| | Annotation by Robert L. Forward, 3 May 2002 |
| | "Contract with Air Force Rocket Propulsion Lab for 100 days of consulting on Advanced Propulsion Physics Research including monthly reports." |
| | Note on Access |
| | Includes restricted materials. |
Box 25, Folder 34  
**Correspondence regarding a hypersonic tether consulting project. Includes proposal and technical discussions 1997-1999**  
Note on Access  
Includes restricted materials.

Box 26, Folder 5  
**Correspondence, clippings, and other material regarding Robert L. Forward's contribution to a BBC documentary series on time travel (includes reproductions) 1996**

Box 32, Folder 4  
**Correspondence and documents regarding Robert L. Forward's speaking engagement at the symposium *Earth, Environment and Space* in Okayama, Japan (includes reproductions) 1990-1991**  
Note on Access  
Includes restricted materials.

Box 32, Folder 7  
**Forms and notes regarding a prospective business agreement between Robert L. Forward, Ashley D. Grayson, and Ray Klemp for production of "The Judge" (includes reproductions) 1980-1981, undated**  
Note on Access  
Restricted.

Box 32, Folder 14  
**Contracts and other material regarding literary works (includes photocopies) 1974-1982, undated**  
Note on Access  
Restricted.

Box 33, Folders 26-27  
**Correspondence, patents, contracts, and other material regarding Robert L. Forward's statite invention (includes reproductions). Notes, drafts, and excerpts from publications used for research are also included 1979-1994, undated**  
Note on Access  
Includes restricted materials.

Box 33, Folder 30  
**Publishing agreement for Robert L. Forward's contribution to *Project Solar Sail*. Includes other documents (includes photocopies) 1987-1989**  
Note on Access  
Includes restricted materials.

Box 33, Folder 34  
**Correspondence, annotations, and other material regarding Robert L. Forward's consulting services for a Time-Life Books project (includes reproductions) 1989**  
Note on Access  
Includes restricted materials.
Series 2. Literary works 1961-circa 1998, undated

Series Scope and Contents
This series contains page proofs, galley proofs, drafts, notes, and other unpublished material pertaining to the literary works, both science-fiction and non-fiction, of Robert L. Forward. Bound and unbound manuscripts are included, with the bulk of the papers containing copyedits by Dr. Forward and/or publishing staff. Many manuscripts are also autographed by Robert L. Forward and, occasionally, co-authors. All copyedits and autographs were made by Dr. Forward unless otherwise noted. Bylines are provided exclusively for co-authored works, works by other authors, and works citing more than one creative role.

When multiple copies or drafts of a short story, outline, or article are present, the number of items is noted in a single description. Separate descriptions are given for Forward's novel-length works and bound volumes, which often contain significant variations. According to one annotation by Dr. Forward, his literary works were often printed out at various stages of editing, resulting in the many iterations that are contained in the archives.

Series Arrangement
This series is arranged into three sub-series as follows:

Sub-Series 2.1. Manuscripts (bound) 1961-1990, undated

Sub-Series Scope and Contents
This sub-series contains the literary works of Robert L. Forward that were selected for binding in book form by Dr. Forward. The volumes are comprised of draft versions of Forward's science-fiction and non-fiction writings. The bulk of the manuscripts are heavily copyedited by Dr. Forward and/or publishing staff. Many manuscripts are also autographed by Forward and, occasionally, co-authors. All copyedits and autographs were made by Dr. Forward unless otherwise noted. Bylines are provided exclusively for co-authored works, works by other authors, and works citing more than one creative role.

Dr. Forward frequently inscribed his manuscripts with brief, contextual descriptions regarding the publication or revision of the work in hand. For those items containing such annotations, pertinent information is transcribed in a supplementary note.

Sub-Series Arrangement
Manuscripts are arranged alphabetically by title. Works of the same name are arranged chronologically.

Sub-Series Note on Ride the Magic Dragonfly
This sub-series contains multiple iterations of Forward's science-fiction novel originally entitled Ride the Magic Dragonfly. The majority of the bound copies of this work have the title Flight of the Dragonfly printed on the book spine, which was the revised title of the finished manuscript.

Prior to publication as a book, the novel was serialized under the title Rocheworld. Like the iterations of Ride the Magic Dragonfly, select bound copies of Rocheworld have the title Flight of the Dragonfly printed on the book spine.

shelf On Shelf
<table>
<thead>
<tr>
<th>Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Dragon’s Egg</em> (2nd draft; two copies)</td>
<td>1978</td>
</tr>
<tr>
<td><em>Dragon’s Egg</em> (6th draft; two copies).</td>
<td>Autographed 1979 April 22</td>
</tr>
<tr>
<td><em>Dragon’s Egg</em> (6th draft).</td>
<td>Includes copyedits by publishing staff circa 1979</td>
</tr>
<tr>
<td><em>Dragon’s Egg: A Film Treatment</em></td>
<td>by Ted Pedersen. Based on the novel by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>1981</td>
</tr>
<tr>
<td><em>Dragon’s Egg</em> and Starquake: Notes,</td>
<td><em>Research and Illustrations</em> by Robert L. Forward. Compiled by Daryl</td>
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<tr>
<td></td>
<td>F. Mallett 1961-1982, undated</td>
</tr>
<tr>
<td><em>Dusty Pink Rainbow Outlines</em>.</td>
<td>Includes copyedits 1986 June-September</td>
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<tr>
<td><em>The Flight of the Dragonfly</em>.</td>
<td>Includes copyedits by Robert L. Forward and publishing staff.</td>
</tr>
<tr>
<td></td>
<td>Manuscript originally published as <em>Ride the Magic Dragonfly</em> (see</td>
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<tr>
<td></td>
<td>copyright page) 1983</td>
</tr>
<tr>
<td><em>The Flight of the Dragonfly</em> (page and</td>
<td>*Galley proofs). Includes copyedits by Robert L. Forward and publishing</td>
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<tr>
<td>galley proofs).</td>
<td>staff 1984</td>
</tr>
<tr>
<td><em>Future Magic</em>. Autographed with copy edits</td>
<td>1986 March 23</td>
</tr>
<tr>
<td><em>Future Magic</em>. Autographed with copy edits</td>
<td>1986 March 23-June 15</td>
</tr>
<tr>
<td><em>Future Magic</em>. Autographed 1986</td>
<td>June 15</td>
</tr>
<tr>
<td><em>Future Magic</em> (photocopied final draft).</td>
<td>Includes copyedits by publishing staff 1986-circa 1989</td>
</tr>
<tr>
<td><em>Martian Rainbow</em>. Autographed with copy</td>
<td>edits 1988 September 30-October 30</td>
</tr>
<tr>
<td><em>Martian Rainbow</em>. Includes copy edits</td>
<td>1988-1989</td>
</tr>
<tr>
<td><em>A Matter of Extreme Gravity</em>.</td>
<td>Includes copy edits 1980</td>
</tr>
<tr>
<td><em>Mirror Matter</em> by Robert L. Forward and</td>
<td>Joel Davis 1988</td>
</tr>
<tr>
<td><em>Future Magic</em>. Autographed with copy edits</td>
<td>1986</td>
</tr>
<tr>
<td><em>Future Magic</em>. Autographed 1986</td>
<td>June 15</td>
</tr>
<tr>
<td><em>Future Magic</em> (photocopied final draft).</td>
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</tr>
<tr>
<td><em>Mirror Matter</em> by Robert L. Forward and</td>
<td>Joel Davis 1988</td>
</tr>
</tbody>
</table>


"Original of manuscript accepted by Avon in April. One last edit to correct minor errors and typos. 0930 PDT 27 May 1986 on Flight TWA 38 to Philadelphia to present paper on interstellar beamed power spacecraft at AAAS meeting. (Isaac Asimov is on same program.).

Black pen marks were those found on 23-24 March before sending to publisher. Purple pen marks are corrections made on AAAS trip. Green pen marks are changes suggested by Charles Sheffield inserted on 1 June 1986. Red marks are insertion of Figure information on 14 June 1986."

*Future Magic*. Autographed 1986 June 15

"0846 23 March 1989 - On TWA 894 on way to Balticon. Working on del Rey recommended revisions.
1102 11 May 1989 - One more time through."

*Future Magic*. Autographed with copy edits 1988 September 30-October 30

"20 Oct 1988 - Started final edit - need to cut some.
21 Oct 1988 - Started second runthrough - change Tanya to a blue-eyed blonde.
24 Oct 1988 - Finished second runthrough - wait for mail tomorrow.
30 Oct 1988 - Still no reply from Chris McKay & Penny Boston - will have to proceed.
Need to write an "About the author"."
Mirror Matter Miscellany (copyedited manuscript). Edited chapters included in the non-fiction work Mirror Matter: Pioneering Antimatter Physics by Robert L. Forward and Joel Davis circa 1988


Annotation by Robert L. Forward, 10 March 1981
This version retired 11:01 PDT 10 March 1981."


Annotation by Robert L. Forward, 21 April 1981
"This draft also includes partially revised sections on STOPPING and LANDING which were typed out midway from last draft. Some of the indicated corrections to HEARINGS were postponed to a later draft.
Put into archive box 10:39 PST 21 April 1981. Replacement dated 21 April 1981. Only one copy of 21 April 1981 version made. Will pick up tomorrow at USC on way to AVS speech, then work on it while in Albuquerque (again)."

Ride the Magic Dragonfly (spine title: Flight of the Dragonfly) 1981 April 21

Annotation by Robert L. Forward
"This version printed out by mistake without formatting activated. Wrote some more in Albuquerque and put in 25 April 1981 version."

Annotation by DFM, 12/1/89
"Loss of words at top & bottom of each page due to computer print out format. Bound thusly as per R.L.F."

Ride the Magic Dragonfly (spine title: Flight of the Dragonfly) 1981 April 25-June 20

Annotation by Robert L. Forward, 19 June 1981
"This last partial draft was finished off to produce the first full draft of the Rocheworld saga. There were some intermediate printouts of the remaining chapters as they went from their first typing phase to their edited phase. These are inserted in their proper places. The final editing and typeout was completed on 19 June 1981, with the final tape-in of figures on the 20th.
The following version is the first full draft of RW with a publication date of 20 June 1981 and consists of a typed original and 15 Xerox copies that were sent out to my technical reviewers for comments. Copies also went to Lester del Rey of Ballantine and Dr. Stanley Schmidt of Analog as possible serial material."

Ride the Magic Dragonfly (spine title: Flight of the Dragonfly) 1981 June 20


Annotations by Robert L. Forward
"30 Oct 1981 - Lester has still not read this. I will do it myself. Judy-Lynn del Rey says get it below 120,000 words, but keep appendix (although I will cut it). Will start by putting reviewer comments into MS using green.
31 Dec 1981 - Talk about writer's block! Finally back to this after doing nothing over Thanksgiving and Christmas. Did do "Starhope - The World", "Future Magic", and "The Judge".
9 Jan 1982 - Not much done - back to grindstone - talked to Ashley."

Annotation by Robert L. Forward, 1554 Tuesday 19 Sept 1989

“This was the printout of the largest electronic version of Rocheworld that I could find. It was on USC tape 5WARD as file ROCHEWOR.81JUN24. Jacqueline Stafsudd finally was able to read the ancient tape and transfer it to an IBM compatible disk. Before I typed this I did a little bit of editing to remove the old word processing formats. I then compared this version, chapter by chapter, with the Baen paperback and the 150,000 25 March 1982 version (bound as Flight of the Dragonfly at Eaton Collection), and made insertions, deletions and changes to get the 17 September 1989 version of Rocheworld (160,000 words + 12 figures).

This involved breaking Karin Krupp back into two females, changing the name of Eve into Shirley, and restoring Dr. Wang as a male who dies on the way to Barnard. I also had to type in the Baen Book chapter "Reporting" and type in the long version of Arielle’s "Flight" sequence from the 1982 version.

I will now do a final edit on the 17 September 1989 version.”


Annotation by Robert L. Forward

"Copy 7 of 7 copies."


Annotation by Robert L. Forward

"Copy 7 of 7 copies."


Annotations by Robert L. Forward

"25 April 1982 - Title page autographed by Forward.
6 May 1982 - Telephone call from Stanley Schmidt of Analog. Will serialize it as "Rocheworld". RF.
17 May 1982 - Stanley Schmidt makes some corrections."


Ride the Magic Dragonfly (spine title: Flight of the Dragonfly) 1983 June 15

Rocheworld (spine title: Flight of the Dragonfly) 1983 March 19

Annotation by Robert L. Forward

"One of about 5 xeroxes of original ms."


Annotation by Robert L. Forward

"(Last and final edit for Pocketbooks)."

Rocheworld. Autographed with copyedits 1989 September 25-27

Annotation by Robert L. Forward, 2043 Monday 25 September 1989

"This is an incomplete collection of pages from the final draft that were retyped because of printer errors (it was very hot today and the "ch" combination often jammed), typos, or errors. This should probably be bound in same volume as next to last draft.

Last pages 2129 - 27 Sept 1989."
Rocheworld: Part 1. Autographed with copyedits 1989 September 17-25
Annotation by Robert L. Forward, 1524 Monday 25 September 1989
"This was the next to the last draft of the revised version of Rocheworld, see page ii for its genesis. After this draft was corrected (in the period from 17-23 September 1989) the corrections were made in the electronic version and the "final" draft printed. The final draft will be copyedited and pages retyped to get a nearly error proof final draft."

Rocheworld: Part 1. Includes copyedits and documentation by Baen Books publishing staff circa 1990

Rocheworld: Part 2. Autographed with copyedits 1989 September 17-25
Annotation by Robert L. Forward, 1524 Monday 25 September 1989 (title page photocopied from Part 1)
"This was the next to the last draft of the revised version of Rocheworld, see page ii for its genesis. After this draft was corrected (in the period from 17-23 September 1989) the corrections were made in the electronic version and the "final" draft printed. The final draft will be copyedited and pages retyped to get a nearly error proof final draft."

Rocheworld: Part II. Includes copyedits by Baen Books publishing staff circa 1990

Starquake!: Includes copyedits 1984 March 28-July
Starquake!: Includes copyedits 1984 July 29
Starquake!: Autographed 1984 November 25
Annotation by Robert L. Forward
"Dave Lynch Correction Version."

Starquake!: Autographed 1984 November 25
Annotation by Robert L. Forward
"Original."

Starquake!: Includes copyedits by Robert L. Forward and publishing staff, probably from Del Rey Books 1985 October 2

Starquake Outlines: May-August 1982. Includes copyedits 1982 May-August
Timemaster. Includes copyedits 1990 April 24-June 13
Annotation by Robert L. Forward
"13 June 1990 (In Scotland)."

Timemaster. Autographed with copyedits 1990 June 13-July 28
Annotation by Robert L. Forward
"Reworked 23-28 July 1990."

Timemaster. Autographed with copyedits 1990 July 26-August 20
Annotation by Robert L. Forward
"Sent off outline and four chapters (2, 4, 8 & 12) to Russell Galen today. Still have last chapter to write. Will run off 2, 4, 8, 12-15 and add to this version to take to Worldcon in Amsterdam 23-27 Aug 90. New version dated 20 Aug 1990."

Timemaster. Includes copyedits 1990 August 20-22
Annotation by Robert L. Forward
"Working on next-to-final draft in Promenade Hotel, Den Haag, Netherlands while attending Worldcon."

Timemaster Outlines (spine title). Includes notes, typescripts, and copyedits April 1989
Timemaster Outlines. Includes copyedits July 1990

Sub-Series Scope and Contents
This sub-series contains the unbound literary works of Robert L. Forward, which primarily consist of draft versions of Forward's science-fiction and non-fiction writings. While it is often difficult to distinguish a so-called "science fact" article from a piece of technical writing, the title page format used by Dr. Forward often helps to identify a work as one or the other. Non-fiction, science fact articles typically refer to Forward's literary representation on the title page, though this is not universal. Conversely, his technical writings cite his work affiliation with Hughes Research Laboratories or Forward Unlimited.

Many of the manuscripts, though left unbound, were arranged by Dr. Forward shortly before his death. Notes identifying a selection of papers are frequently inserted, and occasionally provide contextual or other background information about a work. As with the bound manuscripts, select items also contain inscriptions of a similar type. For those resources containing such annotations, pertinent information is transcribed in a supplementary note. Select papers that were originally intended for binding are also identified as such in a supplementary note.

The bulk of the manuscripts are heavily copyedited by Dr. Forward and/or publishing staff. Many manuscripts are also autographed by Robert L. Forward and, occasionally, co-authors. All copyedits and autographs were made by Dr. Forward unless otherwise noted. Bylines are provided exclusively for co-authored works, works by other authors, and works citing more than one creative role.

Sub-Series Arrangement
Manuscripts are arranged alphabetically by title. Works of the same name are arranged chronologically.

Box 14, Folder 4
Acceleration Constant. Includes copyedits by publishing staff, probably from Scott Meredith Literary Agency, Inc. undated

Box 33, Folder 13
Alien Life Between the Planets and the Stars 1995 April 8

Box 27, Folders 16-17
Annotations by Robert L. Forward
"Archivist - I will be writing this book backwards, starting with the last chapter and notebook and adding previous chapters one at a time and then smoothing forward to end. This is to insure climax stays fixed and isn't telegraphed too early - yet all the clues are there." [inscribed on text]
"Chapter by Chapter (from back) rework of novel." [separate sheet]

Box 28, Folders 1-2
Camelot 30K. Autographed with copyedits 1992 September 13-20
Annotations by Robert L. Forward
"On this day, 17 September 1992, at 1800 British Daylight Time, this "Creation draft" of Camelot 30K, was finished. There is still a lot to do - additions, corrections, editing - but the basic plot line is established.
20 Sept. - The new draft was completed.
I will now edit this draft, and work on getting a usable version to my Scotland friends before leaving next Wednesday, 23 Sept 1992. Pontifically Yours!"
Annotation by Robert L. Forward, 17 Sept 1992
""Creation" Draft (first complete story)."

Box 34, Folders 11-12
Camelot 30K. Autographed with copyedits 1992 September 20-21
Annotations by Robert L. Forward, 21 September 1992
"Archivist:
This copy of the final version of Camelot 30K was sent to the Editor, Dave Hartwell at Tor Books, for his approval and acceptance."
<table>
<thead>
<tr>
<th>Box 28, Folders 3-4</th>
<th>Camelot 30K. Autographed with copyedits 1992 September 20-November 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotations by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>23 September - Editing on flight from LHR to Newark - [Connoisseur] Class upgrade. Did chapters 00, 01, 02 - Naptime - I think it's good so far.</td>
</tr>
<tr>
<td></td>
<td>29 Sept 1992 - Editing on flight from STL to DCA.</td>
</tr>
<tr>
<td></td>
<td>3 Oct 1992 - Editing on flight from DCA to STL to SEA.</td>
</tr>
<tr>
<td></td>
<td>4 Nov 1992 - Added Prologue &amp; Dave Lynch comments.&quot; [inscribed on text]</td>
</tr>
<tr>
<td></td>
<td>&quot;ready for binding&quot; [separate sheet]</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Box 27, Folders 13-14</th>
<th>Camelot 30K. Autographed with copyedits 1992 November 10-December 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotations by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>&quot;30 Nov 1992 - Inserting suggestions from Seichi Kiyohara.</td>
</tr>
<tr>
<td></td>
<td>4 Dec 1992 - Last read through.</td>
</tr>
<tr>
<td></td>
<td>Next to last draft of Camelot 30K. Final draft dated 11 Dec 1992.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27, Folders 11-12</th>
<th>Camelot 30K. Autographed 1992 December 11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotation by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>&quot;Original of final draft. Xeroxes were sent to publisher and agent.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 34, Folders 13-14</th>
<th>Camelot 30K (photocopy). Autographed with copyedits by Robert L. Forward. Includes copyedits and style sheets from Tor Books copyeditor 1993 December 11, 1992-January 25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotation by Robert L. Forward, 25 January 1993</td>
</tr>
<tr>
<td></td>
<td>&quot;Started work on checking this copyedited version.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 27, Folders 9-10</th>
<th>Camelot 30K. Includes notes to copyeditor and compositor, correspondence from Robert L. Forward to David Hartwell (Tor Books), and correspondence from Tom Doherty Associates, Inc. to Robert L. Forward 1992-1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 34, Folders 7-8</td>
<td>Camelot 30K (galley proofs). Includes correspondence from Robert L. Forward to Don Keller, Tor Books (reproduction) 1993</td>
</tr>
<tr>
<td>Box 34, Folders 9-10</td>
<td>Camelot 30K (page proofs). Autographed with copyedits (photocopy) 1993 May 11</td>
</tr>
<tr>
<td></td>
<td>Annotation by Robert L. Forward, 11 May 1993</td>
</tr>
<tr>
<td></td>
<td>&quot;Author's Corrections.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 14, Folder 7</th>
<th>Camelot Titania (two drafts). Includes copyedits 1990 October 17-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 14, Folder 6</td>
<td>Camelot Titania. Autographed. Includes correspondence from Robert L. Forward to Russell Galen, agent with Scott Meredith Literary Agency 1990 October 19-26</td>
</tr>
<tr>
<td></td>
<td>Annotation by Robert L. Forward, 26 Oct 1990</td>
</tr>
<tr>
<td></td>
<td>&quot;Russell asked for a more upbeat ending. I wrote one and faxed/FedExed it to him.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13, Folder 8</th>
<th>The Cerebrated Jumping Frog of Calaveras III by Martha Dodson Forward and Robert L. Forward. Includes copyedits by publishing staff undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 8, Folder 7</td>
<td>Cheela to the Rescue!, Acceleration Constant, Twinkle, Twinkle, and The Singing Diamond (manuscript and clipping) 1978-1980</td>
</tr>
<tr>
<td>Box 26, Folder 14</td>
<td>Cold Comfort (three drafts). Includes copyedits 1989 June 16-August 21</td>
</tr>
<tr>
<td>Box 41</td>
<td>Dragon's Egg (galley proof). Includes copyedits by Robert L. Forward and copyeditors circa 1980</td>
</tr>
<tr>
<td>Box 29, Folder 12</td>
<td><strong>Fading Into Blackness</strong> (three drafts). Includes copyedits 1987 October 24-25, undated</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Annotation by Robert L. Forward, 3 May 2002</td>
</tr>
<tr>
<td></td>
<td>&quot;Published in Analog.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 13, Folder 7</th>
<th><strong>Fading into Blackness</strong> (manuscript and galley proof). Includes copyedits by publishing staff from Analog Science Fiction/Science Fact 1988, undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 33, Folder 23</td>
<td><strong>Faster-Than-Light (Science Fact Article).</strong> Includes copyedits by Analog copyeditors 1994, June 27, undated</td>
</tr>
<tr>
<td>Box 26, Folder 17</td>
<td><strong>Faster-Than-Light</strong> (galley proofs from Analog). Includes copyedits and correspondence from Robert L. Forward to Stanley Schmidt 1994, September 15-28</td>
</tr>
<tr>
<td>Box 20, Folder 3</td>
<td><strong>Flattening Spacetime.</strong> Analog galley proof with copyedits by publishing staff undated</td>
</tr>
<tr>
<td>Box 26, Folder 12</td>
<td><strong>Flattening Spacetime</strong> (five drafts). Includes copyedits 1981 November 12-17</td>
</tr>
<tr>
<td></td>
<td>Annotation by Robert L. Forward, 3 May 2002</td>
</tr>
<tr>
<td></td>
<td>&quot;Sold to Analog as a Science Fact article.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 30, Folder 1, Box 29, Folder 19</th>
<th><strong>Indistinguishable From Magic: Speculations and Visions of the Future.</strong> Autographed with copyedits 1993 December 13-15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotation by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>&quot;Next to last draft: Finished editing 15 Dec 1993.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29, Folders 17-18</th>
<th><strong>Indistinguishable From Magic: Speculations and Visions of the Future.</strong> Autographed with copyedits 1993 December 15-17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotation by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>&quot;Last, last draft before final printout with consecutive page numbers and figure pages worked out.&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 29, Folders 15-16</th>
<th><strong>Indistinguishable From Magic: Speculations and Visions of the Future.</strong> Includes copyedits by Baen Books copyeditors 1993 December 17, undated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 9, Folder 1</td>
<td><strong>Magic Matter</strong> (chapter from <em>Future Magic</em>). Includes copyedits by publishing staff undated</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Box 14, Folder 5</th>
<th><strong>Mammalian Connection: Premise for a hard science fiction novel</strong> (two drafts). Includes copyedits 1993 May 17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 38, Folder 12</td>
<td><strong>Marooned on Eden</strong> by Robert L. Forward and Martha Dodson Forward (page proofs; includes only author-corrected pages). Includes copyedits and correspondence to Martha Dodson Forward from Barbara Van Tine, Baen Books production manager undated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 25, Folders 40-41, Box 26, Folders 1-4</th>
<th><strong>Marooned on Eden</strong> by Robert L. Forward and Martha Dodson Forward (three drafts). Autographed with copyedits by Robert L. Forward and Martha Dodson Forward 1992 March 4-June 28</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annotations by Robert L. Forward</td>
</tr>
<tr>
<td></td>
<td>&quot;MAROONED ON EDEN</td>
</tr>
<tr>
<td></td>
<td>Probably ready for binding.&quot; [separate sheet; these three drafts were intended to be bound as one volume].</td>
</tr>
<tr>
<td></td>
<td>June 28, 1992 draft:</td>
</tr>
<tr>
<td></td>
<td>May 1992 draft:</td>
</tr>
<tr>
<td></td>
<td>&quot;20 May 1992 - LAX - chaps 00-02 30 May 1992 - Reay -&quot;</td>
</tr>
</tbody>
</table>
Box 4, Folders 3-4  *Marooned on Eden* (page proofs) by Robert L. Forward and Martha Dodson Forward. Includes correspondence from Baen Books production manager to Robert L. Forward 1993

Box 5, Folders 1-2  *Marooned on Eden* by Robert L. Forward and Martha Dodson Forward. Includes copyedits 1993 March 25-29

Annotation by Robert L. Forward
"1st rework draft of MOE plus two earlier rewrites of chapt one."

Box 4, Folders 1-2  *Marooned on Eden* by Robert L. Forward and Martha Dodson Forward. Includes copyedits 1993 March 30

Annotation by Robert L. Forward
"Last rewrite of *Marooned on Eden*. Disk was sent to Baen 31 March 1993. No printout of final version was made."

Box 31, Folders 6-7  *Martian Rainbow* (outline and draft). Includes copyedits 1986-1988

Box 31, Folders 4-5  *Martian Rainbow*. Autographed with copyedits 1988 July 28-August 9

Annotation by Robert L. Forward
"This is a major edit of everything written up to this point."

Box 8, Folder 4  *Martian Rainbow* (introduction and chapter 1). Autographed with copyedits 1988 August 7-31

Annotation by Robert L. Forward, 31 August 1988
"Editing carried out while on trip back to the USA."

Box 31, Folders 1-3  *Martian Rainbow*. Includes copyedits circa 1988 September 11-30

Annotation by Robert L. Forward (on separate sheet)
"There is no title page or Chapter 1 to this version of MARTIAN RAINBOW ~ 11-30 Sept 1988 (I was reworking a number of later chapters to take care of a half-year error in the timeline between Earth and Mars. Ended up shifting the story 4 years." [see note dated 11 Sept 1988 after Chapter 13 (A4 paper)].

Box 30, Folders 4-5  *Martian Rainbow*. Includes autograph and correspondence to and from Lester del Rey, Del Rey Books 1989 March 2-May 20

Annotation by Robert L. Forward, 20 May 1989
"Hopefully final version sent to Del Rey Books with corrections and changes (10) made in response to Lester del Rey letter of 2 March 1989.
Two xeroxes were made. One sent to Russell Galen for copying and distribution. One to Phyllis & Al Eisenstein for checking - I will collect and use."

Box 30, Folders 2-3  *Martian Rainbow* (galley proofs). Includes autograph, copyedits (photocopied), and correspondence between Robert L. Forward and publishing staff at Del Rey Books 1991

Box 21, Folder 1  *Martian Rainbow* (page proofs). Includes copyedits 1991 February 8

Box 21, Folder 10  *A Matter of Extreme Gravity* (draft) circa 1985

Annotation by Robert L. Forward
"Found in 1994 while cleaning out Russell Galen's files at SMLA. Probably from circa 1985."

Box 26, Folder 19  *Monkeys to the Moon* 1992 February 18

Annotation by Robert L. Forward, 18 February 1992
"Sent to Analog."
Box 26, Folder 11: *The Negative Matter Space Drive* (four drafts). Includes copyedits 1989 August 6-9

Annotation by Robert L. Forward
"Submitted to *Analog* magazine."

Box 30, Folders 7-8: *Ocean Under Ice* by Robert L. Forward and Martha Dodson Forward. Autographed with copyedits 1993 October 22-November 3

Annotations by Robert L. Forward
"Martha’s Edit Started (in green ink) 23 October 1993. 28 October 1993 Bob started input of Martha’s adds. 30 October 1993 - adding his own changes in at the same time. Martha’s Edit Finished 3 Nov 1993."

Box 30, Folders 9-10: *Ocean Under Ice* by Robert L. Forward and Martha Dodson Forward. Autographed with copyedits 1993 November 3-8

Annotations by Robert L. Forward
"4 November 1993 - Started next-to-final edit.
8 November 1993 - Finished."

Box 30, Folders 11-12: *Ocean Under Ice* by Robert L. Forward and Martha Dodson Forward. Autographed with copyedits 1993 November 9-11

Annotations by Robert L. Forward
"9 November 1993 - Started final edit.
11 November 1993 - Disks off to Baen."

Box 30, Folders 13-14: *Ocean Under the Ice* by Robert L. Forward and Martha Dodson Forward (galley proof). Autographed with copyedits 1994 March 10-31

Annotations by Robert L. Forward

Box 26, Folder 7: *Polesitters* (three drafts). Includes copyedits 1989 July 31-August 3

Box 26, Folder 10: *Race to the Pole* (three drafts). Includes copyedits 1989 June 8-July 31

Annotation by Robert L. Forward, 3 May 2002 (on separate sheet)
"Couldn't sell to *Analog* ended up putting it in *Indistinguishable From Magic*."

Box 18, Folder 2: *Race to the Pole* and *Polesitters* 1989 August 3


Annotation by Robert L. Forward
"Next to last draft."

Box 35, Folders 7-8: *Return to Rocheworld* by Dr. Robert L. Forward and Julie Forward Fuller 1992 January 26

Box 35, Folders 13-14: *Return to Rocheworld* by Robert L. Forward and Julie Forward Fuller. Autographed by Robert L. Forward 1992 January 26

Annotation by Robert L. Forward
"Final Draft."

Box 35, Folders 9-10: *Return to Rocheworld* by Robert L. Forward and Julie Forward Fuller (galley proofs). Includes copyedits and correspondence from Barbara Van Tine, Baen Books production manager 1992 September-October

Annotation by Robert L. Forward
"ready to bind."
Box 25, Folders 35-36
Rescued from Paradise (A Rocheworld Book) by Robert L. Forward and Julie Forward Fuller (galley proofs). Includes copyedits 1994

Box 34, Folders 3-4

Annotation by Robert L. Forward
"Replaced by disk from Julie - oxxxxxx.lst."

Box 34, Folders 1-2
Rescued From Paradise by Robert L. Forward and Julie Forward Fuller. Includes copyedits by Robert L. Forward and others, probably members of the Forward family March 1994

Annotation by Robert L. Forward (on separate sheet)
"RFP Chapter Edits after 24 March 1994."

Box 36, Folders 1-9
Rescued From Paradise (A Rocheworld Novel) by Robert L. Forward and Julie Forward Fuller (four drafts). Autographed by Robert L. Forward. Includes copyedits by Robert L. Forward and Julie Forward Fuller 1994 May 4-July 2

Annotation by Robert L. Forward (on separate sheet)
"4 versions including final one sent to Baen." [Each version has inscriptions.]

Box 2, Folders 5-6
Ridge the Magic Dragonfly 1981 June 20

Box 37, Folders 30-32
Rocheworld. Autographed 1989 September 25

Annotation by Robert L. Forward
"Copy 2 of original kept to compare with Baen page proof. Didn't need detailed comparison."

Box 37, Folder 29

Box 33, Folder 6

Annotation by Robert L. Forward
"Back to work on manuscript after finishing off NASA Phase I contract on Failsafe Multistrand Tethers."

Box 33, Folders 4-5
Saturn Rukh. Autographed with copyedits 1995 August 14-September 24

Annotations by Robert L. Forward
"24 September 1995 - At IAD waiting 8 hours for flight to LHR.
11 October 1995 - Put in edits to chapters 00-04. 05-08 still draft notes."

Box 33, Folder 3
Saturn Rukh. Autographed with copyedits 1995 October 13-November 16

Annotations by Robert L. Forward
"14 November 1995 - Editing in Caithness General Hospital after "angina" attack. Corrections made by 16 Nov."

Box 33, Folders 1-2
Saturn Rukh. Autographed with copyedits by Robert L. Forward and Julie Forward Fuller 1995-1996

Annotations by Robert L. Forward
"Edit completed March 18, 1996. Other comments by Julie Forward Fuller."

Box 3, Folders 1-2

Box 3, Folders 3-4
Saturn Rukh. Autographed 1996 March 19
Saturn Rukh. Autographed with copyedits 1996 March 19-July 19
Annotations by Robert L. Forward
"1 June 1996 - "Editor's Cut" Version. Going through again to: put in Latin Names, correct minor errors - and to make changes David Hartwell (the dreaded editor) would like to see made.
19 July 1996 - Inserting Changes."

Saturn Rukh. Includes paperback cover and copyedits by Robert L. Forward and Tor Books copyeditors circa 1996-1998

Self-Limiting (two drafts). Includes copyedits 1991 May 11
Annotations by Robert L. Forward
"Sent to Stan Schmidt, Analog."

Starhope -- The World. Includes copyedits 1981 December 21-23
Timemaster. Autographed with copyedits 1989 September 4-October 6
Annotations by Robert L. Forward
"29 September 1989 - Returning to work on TIMEMASTER after spending almost full time in the last three weeks working on RW-II, the 155,000 word version of ROCHEWORLD. Now to get out my calculator and see if the plot line holds together at 1-30 gees instead of at 100 gees.
6 Oct 1989 - Was able to do it by reversing Randy travel. Will have to rework timeline."

Timemaster. Includes copyedits 1989 October 20-November 16
Timemaster. Autographed with copyedits 1989-1990
Annotations by Robert L. Forward
"Back to work on novel after having written or rewritten something like 8 papers and articles on advanced propulsion for my AFAL contract. One paper "Cable Catapult" has an "acknowledgement" to "Harold Randolph Hunter and his crew at Reinhold, Inc." since I invented the concept while writing the novel."

Timemaster. Autographed with copyedits 1990 September 7-15
Annotations by Robert L. Forward
"Starting final edit, on 12 September 1990.
Inserting corrections on 14 September 1990. Printing out as I go along. Should be done by tomorrow if printer holds out.
Printed out 14 Sept 1990. Will mail tomorrow."

Annotations by Robert L. Forward
"3 May 1991 - Reworking per Hartwell's suggestions.
Dear Archivist:
This stack is arranged in the order I worked on it. There are portions of chapters interleaved as flashbacks into other chapters, and some chapters were typed out, re-edited, and typed out again. A real mess - but that is the way I worked on it."

Timemaster. Includes copyedits and notes by David G. Hartwell, Tor Books editor 1991 February 22
Timemaster. Autographed with copyedits 1991 May 7-17
Annotations by Robert L. Forward
"Next to last draft of revised version."
Box 27, Folder 1
Box 26, Folder 28
Box 26, Folders 23-24

Timemaster (photocopy with autograph). Includes correspondence from Robert L. Forward to David G. Hartwell, Tor Books 1991 May 17

Timemaster. Autographed with copyedits. Includes two versions of chapter one 1991 May 17-July 12

Annotations by Robert L. Forward
"Working on second set of Hartwell corrections, plus any I come up with on re-read.
5 July 1991 - In Tigh Fada, Reay, Scotland. Will restart rework from beginning with shortened Chapter 1.
12 July 1991 - Typed out final version."

Box 35, Folders 1-2
Box 34, Folders 15-16
Box 28, Folders 8-9

Timemaster. Autographed (photocopy). Includes correspondence from Russell Galen to David G. Hartwell, Tor Books 1991 July 12-23

Timemaster (galley proofs) 1992 January 21

Timemaster circa 1992

Annotation by Robert L. Forward (on separate sheet)
"Archivist: Manuscript returned from Tor Books w/o cover pages. It does not contain copyeditor marks."

Box 28, Folders 6-7
Box 26, Folder 25

Timemaster. Includes copyedits by Tom Doherty Associates, Inc. (Tor Books) copyeditors 1992


Timemaster (galley proofs; photocopy). Includes copyedits and correspondence between Robert L. Forward and Donald G. Keller, Tor Books 1992

Timemaster (galley proofs). Autographed with copyedits. Includes correspondence between Robert L. Forward and Donald G. Keller, Tor Books 1992

Annotation by Robert L. Forward
"Copyedited 9 Jan 1992."

Box 26, Folder 9

Twin Paradox (two drafts). Includes copyedits 1982 May 10-16

Annotation by Robert L. Forward (on separate sheet)
"Sold to Analog in a drastically cut version. Full version in IFM."

Box 13, Folder 9
Box 14, Folder 14

Twin Paradox (two drafts). Includes copyedits 1982 May 21-August 14

A Very Heavy Touchstone. Review and narrative regarding the influence of the science-fiction novel Mission of Gravity 1985 December 28

When You Live Upon A Star (three drafts). Includes copyedits 1987 October 30-31

When you live upon a star...makes some difference what you are (photocopy). Feature prepared for New Scientist. Includes copyedits by Robert L. Forward and others, probably publishing staff undated

Box 26, Folder 18

Wizard of the Oz Project. Includes copyedits 1989 October 9

Annotation by Robert L. Forward, 13 January 1992

"Sometime in 1990 Roger Cook told me that the [Oz] proposal had not been approved higher-up. Later that year the Berlin Wall came down, and as of a few weeks ago, the U.S.S.R. ceased to exist. I therefore felt it was no longer necessary to keep these files encrypted, and typed them out for addition to my archives."
Sub-Series 2.3. Notes, artwork, and other material 1971-1997, undated

Sub-Series Scope and Contents
This sub-series contains notes, correspondence, clippings, outlines, realia, and other material regarding the development and/or publication of Robert L. Forward's science-fiction stories and non-fiction writings. Materials provide contextual information about plot and other story elements, as well as insight into the hard science concepts developed chiefly for Forward's fiction. Many documents contained in this series are heavily copyedited and occasionally autographed. All copyedits and autographs were made by Dr. Forward unless otherwise noted. Bylines are provided exclusively for co-authored works, works by other authors, and works citing more than one creative role. *Because many folders maintain the original filing scheme of the creator, select records outside the scope of this sub-series are included.*

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder number. Shelved material is listed at the end of the sub-series.

Sub-Series Access
Select items in this sub-series are restricted. Access to these materials is subject to approval. Please submit written requests to the Director of Distinctive Collections.

Sub-Series Note on *Timemaster*
While the bulk of the notes pertaining to *Timemaster* are explicitly identified as such by Dr. Forward, a small selection of novel-related notes were interfiled with research notes taken by Forward early in his career at Hughes. It is unclear whether or not Forward's notes from the 1960s directly influenced the later concepts used in the book. *Please consult "Sub-Series 5.10. Research notes and other material" for the interfiled story notes.*

---

**Box 1, Folder 4**
Notes regarding *Timemaster* and other stories (includes photocopies). Issue 150 of *Fosfax* is also included 1977-1990

**Box 1, Folder 7**
*Wizardry* (first draft). Screenplay by Bob Forward (Robert D. Forward). Includes insert with comments by Robert L. Forward 1990

**Box 3, Folder 5**

**Box 3, Folder 6**
Correspondence, clippings, and excerpts from scientific publications consulted for *Rocheworld* 1972-1982, undated

Annotation by Robert L. Forward (on separate sheet)
"References I used while writing Rocheworld, including correspondence with Carl Richard Feynman, son of Prof. Richard Feynman."

**Box 3, Folder 7**
Forms, notes, and other material regarding the stylistic formatting and publication of *Flight of the Dragonfly* 1983, undated

**Box 9, Folder 2**
*Martian Rainbow* (Outline of 80,000 word novel) 1986 September 1

**Box 9, Folder 3**
Notes, clippings, and other material consulted for the writing of *Martian Rainbow* 1979-1988, undated

**Box 9, Folder 5**
Notes, drawings, drafts, and other material regarding *Rocheworld* (includes photocopies) 1979-1983, undated

**Box 9, Folder 6, Box 12, Folder 6**
Excerpts from books written by Robert L. Forward. Includes brief notes regarding the context and inspiration of the works 1986

**Box 11**
*Martian Rainbow* (Japanese translation; Hayakawa Bunko series, SF986). Translated by Akira Yamataka. Published by Hayakawa Shobō, Tokyo 1992

**Box 12, Folder 2**
Chapter outline and notes for the non-fiction work *Mirror Matter: Pioneering Antimatter Physics* by Robert L. Forward and Joel Davis undated

**Box 12, Folder 7**
Manuscript entitled *The World of Dragon’s Egg* by Robert L. Forward. Includes story abstract and contextual information undated

**Box 12, Folder 9**
Documents regarding the book jacket design and text for *Mirror Matter: Pioneering Antimatter Physics* by Robert L. Forward and Joel Davis 1988, undated
Box 15, Folder 4
Outlines for science-fiction stories entitled *Supernova!* and *How Swift-Rider Got Her Name* (includes photocopy) 1980-1982

Box 15, Folder 9
Outline entitled *Saturn Rukh (Premise for a Hard Science Fiction Novel)* (two drafts; one copyedited by Robert L. Forward). Includes notes and correspondence from Russell Galen and Carl Sagan 1992-1993

Box 16, Folder 1
Manuscripts, notes, and line copies regarding Robert L. Forward's role as Science Consultant for the television series *Starhope* (includes photocopies). Developed by Ted A. Pedersen and John Joachims for K-Bella/Hanna-Barbera Australia 1981-1986

Box 16, Folder 2
Correspondence between Robert L. Forward and Julie Forward Fuller regarding their co-authorship of *Return to Rocheworld* (includes reproductions). Drafts, excerpts, and notes are also included 1991, undated

Box 16, Folder 3

Box 16, Folder 4
Outlines and correspondence regarding the sequels to *Rocheworld*. Documents primarily pertain to character development 1991, undated

Box 16, Folder 5
Technical reports (fictional) with copyedits by Robert L. Forward regarding *Rocheworld* scientific data. Includes notes and correspondence between Robert L. Forward and co-author Julie Forward Fuller 1991, undated

Box 16, Folder 6
Script for the BBC program *Timelords*, for which Robert L. Forward was Science Consultant. Includes copyedits 1996

Box 16, Folder 7
Outline entitled *Lord Over the Darkness (Premise)*. Includes copyedits 1990 April 29

Box 16, Folder 8
Outlines and correspondence regarding a hard science-fiction adventure novel entitled *Heaven Must Fall* (includes reproductions). Correspondence is primarily between Robert L. Forward and Robert D. Forward. Includes copyedits 1990-1991

Box 17, Folder 8
Outline entitled *Lord Over the Darkness* (three drafts). Includes copyedits 1990 April 28-29

Box 18, Folder 1
*The Negative Matter Space Drive*. Concept to be used in a novel 1989 August 9

Box 18, Folder 5
*Adam's Ribs*. Contribution to the SFWA Cookbook Project, Astrid Anderson Bear, Editor 1988 March 4

Box 18, Folder 7
Notes regarding *Timemaster*, attached to excerpts from the novel. Includes notes regarding *Lord Over the Darkness* 1989-1990

Box 18, Folder 9
*Timemaster (Outline for a novel)*. Includes notes and correspondence from Baen Books 1989-1990

Box 20, Folder 11
Outline with notes for a story entitled *Go Beyond -- Again* circa 1975-1976

Box 20, Folder 16
Outline entitled *Journey to the Center of the Earth (feature proposal)* written by Bob Forward (Robert D. Forward; reproduction). Includes copyedits 1990 May 2

Box 20, Folder 17
Outlines, notes, drafts, and other material regarding science-fiction and science fact projects by Robert L. Forward and others (includes photocopies). Includes copyedits by Robert L. Forward and others 1971-1982, undated

Box 20, Folder 20
Illustration labeled "Dragon's Egg by Robert L. Forward, A Hayakawa Edition, Japan" undated

Annotation by Robert L. Forward
"Tentative cover for Japanese edition. I rejected it because of scientific inaccuracy."

Box 20, Folder 22
*Timemaster (Outline for a novel)*. Includes copyedits and correspondence from Robert L. Forward to Russell Galen (photocopy) 1989 April 19

Box 25, Folder 39
Outline, notes, and drafts for *Marooned on Eden* by Robert L. Forward and Martha Dodson Forward 1991, undated
Box 26, Folder 13
Outline entitled Heaven Must Fall by Robert L. Forward and Robert D. Forward (four drafts). Includes copyedits 1991-1992
Annotation by Robert L. Forward, 26 September 1992 (on February 21, 1991 draft)
"Had a long talk with Rob today, and we decided to try and do this work jointly - 50:50 - if we could get our agents to come up with an equitable solution. Rob called Candy. She felt that under the conditions the various agents, Russ, Candy, & Henry - would come up with an equitable solution. I am to call Russ and get things started. I will write first draft - (after Rob & I have agreed on outline) - Rob will made hero & villain come alive and activate action scenes, and I will do final draft."

Box 26, Folder 15

Box 26, Folder 20
Outline entitled Saturn Rukh undated

Box 26, Folder 21
Outline entitled Saturn Rukh (Premise for a Hard Science Fiction Novel). Includes correspondence from Robert L. Forward to Russell Galen 1992 December 12

Box 26, Folder 22
Outline entitled Prospectus for the Hawke Space Resort, associated with the story Heaven Must Fall. Includes copyedits undated

Box 27, Folder 7
Notes regarding Timemaster 1989-1991

Box 27, Folder 8
Correspondence between Robert L. Forward and David Hartwell, Tor Books, regarding Timemaster. Includes pages from the novel with copyedits by Hartwell circa 1992

Box 27, Folder 15
Outlines and background story notes regarding Camelot 30 K (originally entitled Camelot Titania). Includes copyedits 1990 October 26, undated.

Box 28, Folder 5
Notes, correspondence, excerpts from scientific publications, and other material used as "background notes" for Camelot 30 K (includes photocopies) 1989-1992, undated

Box 28, Folder 10
Notes by Simon & Schuster publishing staff regarding copyediting of The Flight of the Dragonfly, originally inserted in manuscript. Includes comments by Robert L. Forward undated

Box 29, Folder 14
Autographed paperback copy of Indistinguishable From Magic. Includes publicity ephemera (photocopy) 1995

Box 30, Folder 6
Outlines (two) and notes regarding Ocean Under Ice by Robert L. Forward and Martha Dodson Forward. Includes original outline by Robert L. Forward and Eve Laurel Forward 1991-1993, undated

Box 32, Folder 10
Inventories of articles and stories written by Robert L. Forward (handwritten). Includes information regarding publication and payment circa 1975-1983

    Note on Access
    Restricted.

Box 32, Folder 13
Notes labeled "Singing Diamond" (includes photocopies) 1978, undated

Box 32, Folder 22
Autographed hardback copy of Saturn Rukh 1997

Box 32, Folder 25
Computer art by Geoffrey Leet for Saturn Rukh 1996 August 20

    Annotation by Robert L. Forward, 20 August 1996
    "Draft Artwork for Saturn Rukh. Done by Geoffrey Leet, Thurso, Caithness (personal friend)."

Box 33, Folder 18
Clippings regarding reviews of Ocean Under Ice by Robert L. Forward and Martha Dodson Forward (includes photocopies). 1994-1995, undated

Box 33, Folder 20
Magic Matter, essay excerpted from New Destinies. Includes copyedits (photocopy) undated

Box 33, Folder 38
Paperback copy of Rescued From Paradise by Robert L. Forward and Julie Forward Fuller. Booklist reviews of the novel are inserted 1995
<table>
<thead>
<tr>
<th>Box 34, Folders 5-6</th>
<th>Outlines, notes, correspondence, and drafts regarding the writing of <em>Rescued From Paradise</em> by Robert L. Forward and Julie Forward Fuller (includes reproductions) 1992-1993, undated</th>
</tr>
</thead>
</table>
|                      | Annotations by Robert L. Forward (on separate sheet)  
|                      | "Various early drafts and development of Outline, Timeline, and "Bibles" for Aliens in discussions with co-author Julie Forward Fuller.  
|                      | 9 May 1993 - Various rewrites of Outline, Timeline, Wereshark Bible, and Jolly Bible for Julie and I to work toward in writing RESCUED FROM PARADISE." |

<table>
<thead>
<tr>
<th>Box 35, Folders 5-6</th>
<th>Outlines, notes, and correspondence regarding <em>Rocheworld</em> sequels (includes reproductions) 1979-1994, undated</th>
</tr>
</thead>
</table>
| Box 36, Folders 10-11 | Miscellaneous drafts. Includes interfiled notes, inscriptions, and copyedits 1978-1989  
|                      | Annotation by Robert L. Forward (on separate sheet)  
|                      | "Various Drafts of published stories and magazine articles." |

| Box 39, Folder 3 | Audiocassette labeled "Tape #30 / Loscon 9 / 662 - Rocheworld: Slide Show / Dr. Forward discusses his novel. / (EB)" 1982 |
| Box 39, Folder 3 | Audiocassette labeled "Science Fiction Radio Show / Program Number_Crystal Music 1, Paul O. Williams 2-4, Robert Forward 5 / Aired Dec 31 / David Carson - Daryl Lane / Odessa College, TX 79762" 1983 |
| Box 39, Folder 3 | Audiocassette labeled "Science Fiction Radio Show / Forward & Patterson / May 30 - June 3" 1983 |
| Box 39, Folder 3 | Audiocassette labeled "Science Fiction Radio Show / Program Number_43-82 Forward 1-3 / Iron Dream 4-5" 1982 |
| Box 39, Folder 3 | Audiocassette labeled ""Life on a Neutron Star" / Dr. Robert L. Forward / IguanaCon II. 36th World SF Convention" undated |
| Box 39, Folder 3 | Audiocassette labeled ""Far Out Physics" / Dr. Robert Forward (Side 1) and "Far Out Physics concl." (Side 2) undated |
| Box 39, Folder 3 | Audiocassette labeled "TBHawley? - 2 Nov 89 - Forward" 1989 November 2 |
| Box 39, Folder 6 | Sculpture (clay?) of a Cheela undated |
| Box 40, Folder 2 | Paintings on cardboard canvases (four) depicting Cheela, probably by Robert L. Forward 1979 |
| shelf On Shelf | *Martian Rainbow* (signed first edition) 1991 |
Series 3. Correspondence 1932-2001, undated

Series Scope and Contents
This series contains the bulk of Robert L. Forward's personal and professional correspondence. Many of these records were explicitly identified as yearly correspondence files at the time of acquisition, and are in the form of letters, faxes, e-mails, and postcards. Correspondents include colleagues, science-fiction authors, students, fans, business associates, family, and others. Topics primarily pertain to Forward's professional areas of expertise, his scientific and literary careers, and extracurricular projects and programs with which he was involved, such as the Mirror Matter newsletter and The British Interplanetary Society peer-reviewed journal. The majority of post-1980 incoming correspondence contains annotations by Dr. Forward which typically indicate the nature and tenor of his replies.

Due to the papers' arrangement, much of the correspondence is related to Dr. Forward's literary contracts and negotiations, as well as freelance speaking or writing engagements.

For additional correspondence regarding Forward's business endeavors, please consult "Series 1. Official documents."

Because many folders maintain the original filing scheme of the creator, select records outside the scope of this series are included.

Series Arrangement
This series is arranged sequentially by box and folder number.

Series Access
Select items in this series are restricted. Access to these materials is subject to approval. Please submit written requests to the Director of Distinctive Collections.

Box 12, Folder 8
Correspondence (includes photocopy) 1993-1998, undated

Box 14, Folder 19
Correspondence (includes reproductions) 1989-1990

Note on Access
Includes restricted materials.

Box 14, Folder 20
Correspondence (includes photocopies) 1988

Box 15, Folder 1
Correspondence (includes reproductions) 1992-1993

Note on Access
Includes restricted materials.

Box 15, Folder 2
Correspondence (includes reproductions) 1991, 1994

Note on Access
Includes restricted materials.

Box 15, Folder 3
Correspondence (includes reproductions) 1995-1996

Note on Access
Includes restricted materials.

Box 15, Folder 10
Correspondence 1992-1993, undated

Box 19, Folder 4
Correspondence (includes reproductions) 1987-1990

Note on Access
Includes restricted materials.

Box 20, Folder 13
Correspondence (includes photocopies) 1985-1991, undated

Note on Access
Includes restricted materials.

Box 20, Folder 19
Correspondence 1989-1990

Box 21, Folder 13
Correspondence (includes reproductions) 1974-2000

Box 24, Folder 3
Correspondence (includes reproductions) 1989-1991, undated
<table>
<thead>
<tr>
<th>Box/Folder Details</th>
<th>Content Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 28, Folder 12</td>
<td>Correspondence (includes reproductions). Notes and drafts regarding <em>Saturn Rukh</em> are also included 1960-1994. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 28, Folders 13-14</td>
<td>Correspondence (includes reproductions). Clippings, ephemera, and other material are also included 1962-1997, undated. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 28, Folder 15</td>
<td>Correspondence (includes reproductions). Clippings, ephemera, and other material are also included 1941-2001, undated. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 29, Folder 1</td>
<td>Correspondence (includes reproductions). 1984. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 29, Folder 3</td>
<td>Correspondence (includes reproductions). 1986. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 29, Folders 5-6</td>
<td>Correspondence (includes reproductions). 1988. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 29, Folder 7</td>
<td>Correspondence (includes reproductions). 1989. Note on Access. Includes restricted materials.</td>
</tr>
<tr>
<td>Box 29, Folder 8</td>
<td>Correspondence (includes reproductions). 1990.</td>
</tr>
</tbody>
</table>
Box 32, Folders 5-6  Correspondence (includes reproductions). 1991.
   Note on Access
   Includes restricted materials.

Box 32, Folder 16  Correspondence (includes reproductions). 1983-1992, undated.
   Note on Access
   Includes restricted materials.

Box 32, Folders 17-18  Correspondence (includes reproductions). 1982-1994, undated.
   Note on Access
   Includes restricted materials.

Box 32, Folder 19  Correspondence (includes reproductions). 1989-1994, undated.
   Note on Access
   Includes restricted materials.

Box 37, Folder 3  Correspondence (includes photocopies). circa 1984-1988, undated.
   Note on Access
   Includes restricted materials.

Box 37, Folder 4  Correspondence. 1932-1937.
Box 37, Folder 5  Correspondence. 1940-1944, undated.
Box 37, Folder 6  Correspondence. 1953-1959.
Box 37, Folder 7  Correspondence (includes reproductions). 1960.
Box 37, Folder 8  Correspondence. 1961.
Box 37, Folder 9  Correspondence (includes photocopies). 1962.
Box 37, Folder 10  Correspondence (includes photocopies). 1963.
Box 37, Folder 11  Correspondence (includes photocopies). 1964.
   Note on Access
   Includes restricted materials.

Box 37, Folder 12  Correspondence. 1965.
Box 37, Folder 13  Correspondence (includes photocopies). 1966.
Box 37, Folder 14  Correspondence (includes photocopies). 1967.
Box 37, Folder 15  Correspondence (includes photocopies). 1968.
Box 37, Folder 16  Correspondence (includes photocopies). 1969.
Box 37, Folder 17  Correspondence (includes photocopies). 1970.
   Note on Access
   Includes restricted materials.

Box 37, Folder 18  Correspondence (includes photocopies). 1971.
Box 37, Folder 19  Correspondence (includes photocopies). 1972.
   Note on Access
   Includes restricted materials.

Box 37, Folder 20  Correspondence (includes photocopies). 1973.
Box 37, Folder 21  Correspondence (includes photocopies). 1974.
   Note on Access
   Includes restricted materials.

Box 37, Folder 22  Correspondence (includes photocopies). 1975.
Series 3. Correspondence 1932-2001, undated

<table>
<thead>
<tr>
<th>Box 37, Folder 23</th>
<th>Correspondence (includes photocopies). 1976.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Note on Access</td>
</tr>
<tr>
<td></td>
<td>Includes restricted materials.</td>
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</table>

<table>
<thead>
<tr>
<th>Box 37, Folder 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correspondence (includes photocopies). 1977.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 37, Folder 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correspondence (includes photocopies). 1978.</td>
</tr>
<tr>
<td>Note on Access</td>
</tr>
<tr>
<td>Includes restricted materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 37, Folder 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correspondence (includes reproductions). 1979.</td>
</tr>
<tr>
<td>Note on Access</td>
</tr>
<tr>
<td>Includes restricted materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 37, Folder 27</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correspondence (includes photocopies). 1980.</td>
</tr>
<tr>
<td>Note on Access</td>
</tr>
<tr>
<td>Includes restricted materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 37, Folder 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correspondence (includes reproductions). 1981.</td>
</tr>
<tr>
<td>Note on Access</td>
</tr>
<tr>
<td>Includes restricted materials.</td>
</tr>
</tbody>
</table>

Series 4. Memorabilia and personal items circa 1865-2000, undated

Series Scope and Contents
This series contains publications, clippings, awards, photographs, artwork, and other material collected by Dr. Forward that documents his personal life and professional accomplishments. Publications include popular and academic serials, often featuring articles by or about Forward, as well as programs and other literature produced in conjunction with professional conferences. While select documents may be classified as scientific research, it is evident that the materials in this series were preserved for commemorative, rather than professional, purposes.

For writings preserved as evidence of Dr. Forward's research, please consult "Series 5. Scientific research."

Series Arrangement
This series is arranged sequentially by box and folder number. Shelved material is listed at the end of the series.

<table>
<thead>
<tr>
<th>Box 1, Folder 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clippings, papers, and other material regarding Robert L. Forward's childhood and personal accomplishments. 1932-1943, undated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 1, Folders 2-3</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Box 2, Folders 1-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clippings, magazines, and other popular publications featuring articles by or about Robert L. Forward, or referencing his work (includes photocopies). 1990-1999.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 5, Folders 3-4, Box 6, Folder 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newsletters, pamphlets, prints, and other ephemera regarding space exploration projects and research, primarily those funded by NASA and managed by the Jet Propulsion Laboratory. circa 1958-1987, undated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 6, Folder 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newsletters, pamphlets, prints, and other ephemera regarding the NASA Voyager Mission (includes photocopies). Clippings regarding other topics are also included. 1957-1986, undated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 6, Folder 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fliers, pamphlets, and other ephemera regarding science fiction and fantasy literature. Includes National Geographic poster regarding the solar system. 1948-1984, undated.</td>
</tr>
<tr>
<td>Box 7, Folders 4-6</td>
</tr>
<tr>
<td>Box 8, Folders 1-2</td>
</tr>
<tr>
<td>Box 9, Folder 7</td>
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<tr>
<td>Box 12, Folder 4</td>
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<td>Box 12, Folder 12</td>
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<td>Box 13, Folder 12</td>
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<td>Box 18, Folder 12</td>
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<tr>
<td>Box 20, Folder 14</td>
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<tr>
<td>Box 21, Folder 8</td>
</tr>
<tr>
<td>Box 22, Folders 1-2</td>
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<tr>
<td>Box 22, Folder 3</td>
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<tr>
<td>Box 23, Folder 6</td>
</tr>
<tr>
<td>Box 25, Folder 31</td>
</tr>
<tr>
<td>Box 32, Folder 8</td>
</tr>
<tr>
<td>Box 32, Folder 9</td>
</tr>
</tbody>
</table>

**Note on Access**

Includes restricted materials.

**Annotation by Robert L. Forward**

"My son, Robert D. Forward, did these cartoons for me to use as letterheads."
| Box 32, Folder 12 | Documents regarding the Aerojet Propulsion Research Institute. 1985, undated.  
| | Annotation by Robert L. Forward  
| | "Was interviewed by Dan Raymer to join group. Aerojet dropped plans shortly after." |
| Box 32, Folder 21 | Manuscript entitled *Imagining the Future-Possible* by William G. Doty regarding science-fiction literature (photocopy). undated. |
| | Annotation by Robert L. Forward  
| | "A+ writing assignment." |
| | Annotations by Robert L. Forward  
| | "Rec. 11/6/89. Returned 6 Nov 1989." |
| Box 36, Folder 12 | Magazines and convention programs featuring articles by or about Robert L. Forward, or referencing his work. 1992-1994. |
| Box 37, Folder 2 | Résumés of Robert L. Forward (includes photocopies). circa 1974, undated. |
| Box 37, Folders 37-38 | Magazines featuring articles by or about Robert L. Forward, or referencing his work. Includes unrelated publications. 1961-1989. |
| Box 38, Folders 1-2 | Magazines featuring articles by or about Robert L. Forward, or referencing his work. Includes material regarding fiction writing and other topics. 1978-1991. |
| Box 38, Folder 4 | Plaque containing the inscription "Icon X Scientist Guest of Honor Dr. Robert L. Forward Presented by the Science Fiction Forum of the State University of New York at Stony Brook April 19-April 21, 1991." April 19-21, 1991. |
| Box 39, Folder 1 | Award (silver rocket on wood base) with inscription "Sixth Space Development Conference "Return to the Vision" May-1987 "Space Pioneer Award" Scientist/Engineer." May 1987. |
| | Annotation by Robert L. Forward  
| Box 39, Folders 7-8 | Floppy disks (13 items), some labeled. 1993, undated. |
| Box 40 | Certificate with the inscription "Star Cloud Prize / Robert L. Forward, Mr. / Your Dragon's Egg / Translated in Showa 57 / Out of the Many Submitted, the Fans Chose from the Foreign Novels, to Present the Top Prize / A Souvenir is Being Presented / Showa 58 August 21 (1983) / Japan SF Fan Group Conference / Chairman, Kadokura, Junichi" (English translation). Mounted on wood plaque. August 21, 1983. |
| Box 40 | Poem entitled *Dragon's Egg* by V. Pace (handwritten in calligraphic script). Mounted on wood plaque. undated. |
Box 40, Folder 1

Box 40, Folder 1

Box 40, Folder 1
Color photograph depicting the entrance to Einstein: A Centenary Exhibition, held at the National Museum of History and Technology in 1979. 1979?

Shelf On Shelf

Series 5. Scientific research 1953-2000, undated

Series Scope and Contents
This series represents the oeuvre of Robert L. Forward's scientific work, containing journals, papers, articles, lectures, technical reports, notes, and other material regarding his career as a physicist and consultant. Materials document a variety of topics, including Forward's work at Hughes Research Laboratories, professional publications and research, and consultant services undertaken for separate projects and contracts. While the bulk of the records were created by, or pertain to, Dr. Forward, the intellectual products of other scientists are also included.

Because many folders maintain the original filing scheme of the creator, select records outside the scope of this series are included.

Series Arrangement
This series is arranged into ten sub-series according to genre/format or subject of materials:

Sub-Series 5.1. Articles and manuscripts, 1960-1996, undated
Sub-Series 5.2. Conference papers and abstracts, 1985-1990, undated
Sub-Series 5.3. Contract reports and other documents, 1983-2000, undated
Sub-Series 5.4. Lectures, seminars, and workshops, 1974-1995, undated
Sub-Series 5.5. Notebook (handwritten), 1966-1972
Sub-Series 5.6. Papers (bound), 1956-1986
Sub-Series 5.7. Projects, 1972-1996, undated
Sub-Series 5.9. Research notes and other material, 1953-1998, undated
Sub-Series 5.10. Technical writings (bound), 1964-1988

Sub-Series 5.1. Articles and manuscripts 1960-1996, undated
Sub-Series Scope and Contents
This sub-series documents the scientific research of Dr. Robert L. Forward that was published in the form of professional, scholarly articles. This includes draft versions of manuscripts, the bulk of which contain copyedits, as well as clippings and copies of published articles. Select academic articles by other scientists are also included. Bylines are provided exclusively for co-authored works, works by other authors, and works citing more than one creative role. All copyedits were made by Robert L. Forward unless otherwise noted.

This sub-series also contains clippings from popular publications regarding the work of Robert L. Forward, which attest to his achievements in the field of science.

For clippings preserved as commemorative items, please consult "Series 4. Memorabilia and personal items."

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder number.

Box 8, Folder 3

Box 8, Folder 5
| Box 8, Folder 10 | **Pluto - Doorway to the Stars** by George Peterson Field (manuscript; photocopy). 1961. |
| Box 8, Folder 11 | **A Star is Born.** circa 1978. |
| Box 12, Folder 14 | Documents, forms, clippings, and other material regarding the writing and publication of scientific articles (includes photocopies). 1984-1986, undated. |
| Box 13, Folder 1 | Correspondence, draft, and reprints regarding the publication of **The Statite: A Spacecraft That Does Not Orbit**. 1989-1991. |
| Box 13, Folder 11 | **Gravity in Motion** (formerly **Gravity Dynamics**). Includes copyedits. September 4-7, 1982. |
| Box 14, Folder 1 | **Starship History** (four drafts). Includes copyedits. October 7-November 2, 1982. |
| Box 14, Folder 2 | **Vodka Power.** Includes copyedits. October 10-19, 1982. |
| Box 14, Folder 8 | **Mirror Matter** (newsletter; multiple issues). Edited by Robert L. Forward. 1986-1990. |
| Box 14, Folder 10 | **Extracting Electrical Energy from the Vacuum by Cohesion of Foliated Conductors.** August 22, 1983. |
| Box 14, Folder 13 | **Perforated Solar Sail Study.** Includes notes on the topic. May 9, 1983-November 21, 1986, undated. |
| Box 16, Folder 9 | **Advanced Space Propulsion** (five drafts). Includes copyedits and photocopy of published article. February 20-May 23, 1990. |
| Box 20, Folder 1 | **Roundtrip Interstellar Travel Using Laser-Pushed Lightsails** (two reprints). 1984, undated. |
| Box 20, Folder 2 | Clippings, manuscripts, and presentation printouts regarding interstellar travel. Includes material by Robert L. Forward, or referencing his work (includes photocopies). 1980-1987, undated. |
Box 20, Folder 5

**Light-Levitated Geostationary Cylindrical Orbits Using Perforated Light Sails.** Includes report and clipping by other authors. 1979-1983.

Box 20, Folder 6

**Aliens in Our Seas (two copies).** August 11, 1980.

Box 20, Folder 8

**Spin Drive to the Stars.** Includes photocopies of published article. March 23, 1980.

Box 20, Folder 10


Box 20, Folder 18


Box 20, Folder 21


Box 21, Folder 4


Annotation by Robert L. Forward

This has been filed with the copyright office as a book. Put in University catalog files as a book. Library of Congress refused to give ©.

Box 21, Folder 5


Box 23, Folder 3


Box 23, Folder 4

Correspondence, documents (invention disclosure), reprints, and other material regarding the publication of **Solar Photon Thruster** in *The Journal of Spacecraft and Rockets*, Vol. 27, No. 4. 1988-1990.

Box 23, Folder 5

**Nullor Space Drive.** Labeled "Original to Nullor Space Drive." 1990.

Box 23, Folder 7


Annotation by Robert L. Forward

"Idea used in Martian Rainbow."

Box 23, Folder 8


Annotation by Robert L. Forward

"Started as a sole-author paper, but brought in some students."

Box 24, Folders 1-2

**Lifetime of a Circularly Symmetric Singly-Crosslinked Multistrand Tether by Robert L. Forward and Rob Hoyt, Constant Length Bridging of Cuts in Tether Structures, and Comparative Lifetimes of Non-Interconnected Multistrand Tethers.** Appendices A, B, and D for the report **Failsafe Multistrand Tethers for Space Propulsion.** Includes copyedits and notes. 1991-1992, undated.

Box 25, Folder 4

**Appendix E: Meteoroid and Space Debris Crater Rate Model** by Robert L. Forward and Stan Love (two drafts, probably included in **Failsafe Multistrand Tethers for Space Propulsion**). Includes copyedits and correspondence. 1991-1992.

Box 25, Folder 7

**Oz Project.** September 12, 1989.

Box 25, Folder 12

**Mirror Matter nos. 15 and 16 (drafts).** Includes copyedits. 1989.

Box 25, Folder 17


Box 25, Folder 18

**Using Lasers to Extract Energy from Nuclear Shape Isomers.** Includes copyedits. August 18, 1992.

Box 25, Folder 20


Annotation by Robert L. Forward
"Printed in Analog. Reworking for New Scientist."


Annotation by Kip S. Thorne
"Bob Forward, This is a working draft, but it may interest you in connection with Timemaster. Note especially Section 3 & Figure 8. Were you aware that following your idea (Fig 8b) one can get an infinite number of solutions?"

Annotation by Robert L. Forward
"My novel, Timemaster, made a major contribution to this scientific paper while the novel was still being written."


Annotation by Robert L. Forward
"Feature article for the Annual Yearbook of Science & Technology for Encyclopaedia Britannica."


Correspondence, notes, and excerpts regarding the publication of Natural Wormholes as Gravitational Lenses by John G. Cramer et al. (includes reproductions). 1994-1995, undated.


| Box 37, Folder 1 | **Horizon Missions Volume I: Technology Concept Study.** Published by the Office of Aeronautics and Space Technology, National Aeronautics and Space Administration, Washington, DC 20546. Includes correspondence from NASA. April 1992. |

**Sub-Series 5.2. Conference papers and abstracts 1985-1990, undated**

**Sub-Series Scope and Contents**

This sub-series is comprised of drafts and reprints of papers presented at, or submitted to, professional conferences. A brief description or summary of the conference, as well as the date and location of the event, is listed on the title page of each document. Occasionally, Dr. Forward also identified the panel or session for which the paper was submitted. Select papers include copyedits, notes, or other documents pertaining to the subsequent revision and publication of the conference paper. All copyedits were made by Dr. Forward.

**Sub-Series Arrangement**

This sub-series is arranged sequentially by box and folder number.

Box 17, Folder 10  

Box 17, Folder 10  

Box 18, Folder 10  

Box 18, Folder 11  

Box 20, Folder 15  

Box 25, Folder 14  

Annotation by Robert L. Forward
"Space Warps. Turning AIAA paper into a JBIS publication."

Box 25, Folder 25  

Box 33, Folder 29  

Box 33, Folder 33  

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**Sub-Series 5.3. Contract reports and other documents 1983-2000, undated**

**Sub-Series Scope and Contents**

This sub-series contains technical reports, notes, correspondence, drafts, and other material regarding contract projects completed by Robert L. Forward. Dr. Forward typically served as the principal, and sole, investigator for these projects, the bulk of which were sponsored by U.S. government entities. Clients include the Air Force Astronautics Laboratory, NASA, and the Jet Propulsion Laboratory. Project titles and contract numbers are provided when known. Select documents contain copyedits by Robert L. Forward.

Many of the technical writings included here pertain to projects documented elsewhere in the collection. For additional records regarding Robert L. Forward's contractual work, please consult "Series 1. Official documents" and "Sub-Series 5.10. Technical writings (bound)."

**Sub-Series Arrangement**

This sub-series is arranged sequentially by box and folder number.

Box 1, Folder 6  
<table>
<thead>
<tr>
<th>Box</th>
<th>Folder</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 15, Folder 11</td>
<td>Correspondence, notes (witnessed and dated), drafts, and other material regarding miscellaneous contract projects (includes photocopies). 1983-1993, undated.</td>
<td></td>
</tr>
</tbody>
</table>
Sub-Series 5.4. Lectures, seminars, and workshops 1974-1995, undated

Sub-Series Scope and Contents
This sub-series is comprised of material prepared for, or documenting, lecture, seminar, and workshop presentations given by Robert L. Forward. Formats include transparencies and other visual aids, computer printouts, drawings, notes, drafts, and audiovisual recordings. Materials pertain to science-fiction and hard science topics and events.

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder number.

Box 8, Folder 6
Far Out Physics (An Illustrated Lecture) by Dr. Robert L. Forward; illustrations by Robert D. Forward. Originally presented at the Annual Conference of Science Fiction Writers of America, Century Plaza Hotel, Los Angeles, California, 27 April 1974. 1974.

Box 8, Folder 12

Box 9, Folder 4

Box 14, Folder 3

Box 14, Folder 9

Box 21, Folder 2
Drawings and computer renderings (reproductions) for a presentation on the Starwisp project. Includes copyedits. October 19, 1989, undated.

Box 25, Folder 19
Annotation by Robert L. Forward
"First draft of talk given in Okayama, Japan, 6 June 1991."

Box 25, Folder 32
Annotation by Robert L. Forward
"Final version of talk given in Okayama, Japan, 4 June 1991."

Box 29, Folder 9

Box 29, Folder 10

Box 33, Folder 12

Box 39, Folder 3
Audiocassette labeled "Futuristic Propulsion Concepts / UCSD Seminar June 1976 / Part I" (Side A) and "Part II" (Side B). June 1976.

Box 39, Folder 3

Box 39, Folder 3

Box 39, Folder 3

Box 39, Folder 3

Box 39, Folder 3
Sub-Series 5.5. Notebooks (handwritten) 1966-1972

Sub-Series Scope and Contents
This sub-series contains personal journals maintained by Dr. Robert L. Forward during an eight-year period of his time at Hughes Research Laboratories (1966-1972). While they primarily document daily activities and projects undertaken at Hughes, the earliest journal is described by Dr. Forward as "a separate notebook for professional work outside of Hughes." Dr. Forward inscribed his contact information on the inside cover of each journal and identified the date of his writings on the title page. He began the Hughes journals while an Associate Manager in the Theoretical Studies Department, transitioning to the position of Manager in the Exploratory Studies Department after less than one year. Contents include narrative entries, notes regarding departmental and other meetings at Hughes, and mathematical and scientific equations and diagrams pertaining to projects and experiments.

Sub-Series Arrangement
This sub-series is arranged chronologically.


Sub-Series 5.6. Papers (bound) 1956-1986

Sub-Series Scope and Contents
This sub-series contains the papers of Robert L. Forward that were selected for binding in book form by Dr. Forward. The papers are primarily composed of scientific articles, reports, and texts that were published in professional journals, presented at conferences, or prepared for projects at Hughes Research Laboratories. The bulk of the papers have indices listing the individual works featured in the respective volume, as well as the date of publication or authorship. Both single-authored and co-authored works are included. All volumes are bound with the exception of "Papers 1986," which was selected for binding by Dr. Forward but never completed.

*Because the records are in original order, select volumes contain materials outside the scope of this sub-series. These are mainly literary works, including copyedited manuscripts and photocopies of published pieces, and copies of Forward's U.S. patents. For descriptions regarding Dr. Forward's literary works, please consult "Series 2. Literary works." For descriptions regarding his U.S. patents, please consult "Series 1. Official documents."

Sub-Series Arrangement
This sub-series is arranged chronologically.

- "Papers 1963" (includes index). 1963.
- "Papers 1964" (includes index). 1964.
Sub-Series 5.7. Projects 1972-1996, undated

Sub-Series Scope and Contents
This sub-series contains manuscripts, correspondence, audiovisual recordings, and other material regarding prospective or extracurricular projects with which Robert L. Forward was involved. These include projects affiliated with Forward's consulting firm, Forward Unlimited, as well as locally and nationally organized science initiatives he contributed to. Audiovisual recordings, in particular, capture Forward's participation as an interviewee for science media projects, including documentaries and radio shows.

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder number.

Box 1, Folder 5
Abstracts, papers, lectures, and other material regarding research projects of Forward Unlimited (includes photocopies). 1989-1990, undated.

Box 17, Folder 6

Box 19, Folder 7
Documents regarding gravity gradiometer applications to navy problems (photocopies). Based on research conducted at Hughes Research Laboratories. 1972-1976, undated.

Box 25, Folder 5

Box 25, Folder 16

Box 38, Folder 6
Videocassette labeled "Future Fantastic - Prog 6 "Weird Science", TX: 09/08/96, VHS NTSC, NO BITC." September 8, 1996.

Box 39, Folder 5
Box 40, Folder 3

Annotations by Robert L. Forward [on record covers]
"One or more tracks interview with Dr. Robert L. Forward."


Sub-Series Scope and Contents
This sub-series contains written proposals for various research and experimentation projects in the field of physics, primarily those developed by Robert L. Forward. The bulk of the proposals were prepared for U.S. government entities, including the Department of Defense, Air Force, and National Science Foundation. Select proposals contain copyedits by Forward, or supplementary correspondence and/or other documents. Bylines are provided exclusively for works by other authors.

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder number.

Box 15, Folder 12
Correspondence, proposal, and other documents regarding research on ultracold neutrons and their use for national security operations (photocopies). 1969-1976, undated.

Box 17, Folder 4
Unconventional Neutrino Sensor for Army ASAT Program (draft and final proposal). Includes copyedits. 1990.

Box 17, Folder 11

Box 25, Folder 6

Annotation by Robert L. Forward, 7 April 1992
"Negotiated a version of this. $20,630."

Box 25, Folder 8

Annotation by Robert L. Forward
"Not funded."

Box 25, Folder 9

Box 25, Folder 11

Annotation by Robert L. Forward
"Declined 4 April 1994 - Crowley - Tech Evaluator."

Box 25, Folder 13

Box 25, Folder 28

Box 33, Folder 9
Correspondence, notes, and other material regarding the TSAR proposal of Tethers Unlimited (includes reproductions). 1995.

Box 33, Folder 21


Sub-Series 5.9. Research notes and other material 1953-1998, undated

Sub-Series Scope and Contents
This sub-series contains research notes, correspondence, manuscripts, and other material regarding Robert L. Forward's academic study of physics and the scientific concepts and inventions developed by him over the course of his career. Materials particularly document Forward's work with conceptual, or "exotic," physics and inventions related to interstellar space exploration and antimatter. Records included here are not identified as pertaining to his literary works, though there are exceptions resulting from the existing order of the files.

Sub-Series Arrangement
This sub-series is arranged sequentially by box and folder numbers.

Box 9, Folder 8
Manuscripts, excerpts, and report regarding the research of physicists (includes photocopies). Select materials reference or acknowledge the work of Robert L. Forward. 1966-1987, undated.

Box 12, Folder 1
Research notes, bibliography, and other material regarding physics topics. 1988, undated.

Box 12, Folder 13
Research notes and correspondence regarding conceptual physics inventions by Robert L. Forward. 1993, undated.

Box 12, Folders 15-16
Manuscripts, papers, clippings, and other material regarding Robert L. Forward's research of propulsion and interstellar flight and exploration (includes photocopies). 1963-1987, undated.

Box 13, Folder 5

Box 14, Folder 17

Box 15, Folder 6
Research notes regarding interstellar propulsion, light sails, and other conceptual physics topics. Includes concepts developed by Robert L. Forward in collaboration with Freeman J. Dyson. 1983-1987, undated.

Box 18, Folder 8

Box 19, Folder 1
Manuscripts, reprints, clippings, and other material regarding the scientific research of Joseph Weber. Many documents contain inscriptions by Robert L. Forward. 1953-1987, undated.

Box 19, Folder 2
File labeled "Ideas." Includes research notes, manuscripts, forms (invention disclosures), and other material created and accumulated by Robert L. Forward while employed at Hughes Research Laboratories (includes photocopies). 1958-1989, undated.

Annotation by Robert L. Forward, 28 May 1987

"Archivist:
This was my file for wild ideas, thoughts, things to work on later. I retire in 2 1/2 months so later is now. I will pass through this collection, throw out "ideas" that are not mine, copy the few that I might discuss in my present AFAL contract, and let you have the bulk."


Box 20, Folder 9  Manuscripts, clippings, and excerpts regarding supernovae, interstellar propulsion and travel, and other topics (includes photocopies). 1974-1989, undated.


Box 21, Folder 11  Research notes regarding a cardio cyclotether (cardio rotovator). December 12-14, 1998.


   Annotation by Robert L. Forward

   "Perforated Sails notes needs to be put with manuscripts."

Box 28, Folder 11  Model (representation) identified as “tether samples.” undated.

Box 32, Folder 20  Research notes from Robert L. Forward's final notebook (# N5765) kept at Hughes Research Laboratories (photocopies). 1987.

Box 33, Folder 7  Research notes and report regarding TSS-2 Hoytether developed by Robert L. Forward and Robert P. Hoyt. 1996.

Box 39, Folder 3  Audiocassette labeled "Gods Universe (contd on side 2)." undated.

Box 38, Folder 5  16mm motion picture regarding gravitational radiation research at the University of Maryland. September 25, 1963.

   Annotation by Robert L. Forward

   "16mm Color Work Print taken by BBC on 9-25-63 of University of Maryland
   Gravitational Radiation Experimental Apparatus. Robert L. Forward, Joseph Weber,
   David Zipoy, Joel Sinsky, David Hines, Mrs. Brown (sec.)."

Box 38, Folder 7  Videotape regarding the Weber Bar. undated.

   Annotation by Robert L. Forward

   "Damaged Weber Bar Movie. Damaged sprockets mended by Smithsonian."

Box 38, Folder 8  Videotape from Hughes Aircraft Company labeled "Electric Damping 2 min 23 sec version, product 3234, copy 1, 10 minutes, 300 feet." June 7, 1978.


Box 38, Folder 10  Seismographic data graph capturing a 48 hour period. May 13, 1965?

   Annotation by Robert L. Forward, 14 August 1986

   "The data on which my thesis was based. This roll also appears as a bit player in
   opening scenes of "Dragon's Egg" where it rolls along a table and off onto the floor."
Sub-Series 5.10. Technical writings (bound) 1964-1988

Sub-Series Scope and Contents
This sub-series contains technical reports, proposals, studies, drafts, and other research-related material selected for binding in book form by Dr. Forward. The contents of each volume chiefly pertain to a common project or research initiative, which Dr. Forward identifies on the volumes' title pages. While the format of these identifications varies, they often include a brief description or summary, date range, or alphanumeric notation for the project. For those select volumes lacking a title proper, descriptive information is taken from other parts of the item.

Dr. Forward served as the Principal Investigator or Manager for the majority of these endeavors, which were projects contracted by Hughes Research Laboratories.

Sub-Series Arrangement
This sub-series is arranged chronologically.

"Rotating Gravity Gradiometer Development Programs." Consists of two volume final report on DARPA/AFGL Rotating Gravity Gradiometer Development program, Sperry/Navy Early Award GGS program, and briefings to SAMSO and DMA. 1977.
"Wideband Gravitational Radiation Antenna Research." Compiled by Dr. Forward "as a "sales brochure" to take along with me on marketing trips." 1978-1979.

Series Scope and Contents
This series is comprised of Dr. Forward's collection of science-fiction and non-fiction books by other authors, many of which contain author inscriptions or autographs. The bulk of the texts include brief, inserted notes written by Forward that address his relationship to the author, either as a colleague, advisor, or fan. Dedications or acknowledgements of Forward and his work that appear in a text are also meticulously noted. This information, when available, is transcribed in a supplementary note.

Series Arrangement
This series is arranged alphabetically by publication title.

Box 38, Folder 3
Approach to Infinity by Morris Scott Dollens (two copies). undated.

Box 11
Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
"See page 52. I later sent him my 1962 article on laser-pushed lightsails."

Box 11
Annotation by Robert L. Forward (on inserted paper)
"See page 15."

Box 11
Annotation by Author
"Great Times, Bob!"
Annotation by Robert L. Forward (on inserted paper)
"Only book of his I had when he visited Hughes. I had nothing to do with this one. Just hate to see an AC Clarke Autograph lost."

Box 22
Annotation by Author
"To Bob, in appreciation of your kind assistance and sage advice during the course of my research."

Box 11

Box 38, Folder 3

Box 36
Annotation by Author, 2 December 1994
"Bob - Thank you for helping me with this book. With luck, we'll both enjoy success."

Box 10
Annotation by Author
"To my colleague Robert Forward, with thanks for many things."
Annotation by Robert L. Forward (on inserted paper)
"Heinlein credits me with an anti-gravity drive in this story and names a spacecraft after me."
Box 11


Annotation by Author (on inserted paper)
"Dear Bob, Herewith the Clarke Drive (inter alia).
(& see reference!)

Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
"See credit on page 302 for giving him the details on how a black hole space drive might work. I also described how one might look at a black hole under a microscope, which he uses on page 90."

Box 10


Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
"See dedication."

Box 9


Box 22


Annotation by Author
"To Bob Forward, For imagining the future."

Annotation by Robert L. Forward
"Archivist - see pages 203 & 204."

Box 9


Annotation by Author
"To Bob Forward who helped put levity into my struggles with gravity!"

Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
"See credit twice in Acknowledgements. Figures 8-1, 8-2, 8-3, 8-4, 8-13, 11-4, 11-7 are from my papers. Chapter 8 is largely based on my papers. See also pages 84, 112."

Box 10


Annotation by Author
"To Bob Forward -- Who knows the value of the goal."

Annotation by Robert L. Forward, 24 Dec 86 (on inserted paper)
"I influenced chapter 17 heavily, supplying many of the references."

Box 38, Folder 3


Box 10

**Polidštěná Galaxie: Kosmická budoucnost lidstva** by Karel Pacner (Kolumbus series, Sv. 112). Published by Mladá Fronta, Prague. 1987.

Annotation by Author, June 14, 1988
"To Dr. Robert Forward with compliments."
Box 10  
*Poselství Kosmických Světů* by Karel Pacner (Edice Pyramida series). Published by Panorama, Prague. 1987.
  Annotation by Author, 11/23, 87
  "To Dr. Robert L. Forward with compliments."
  Annotation by Robert L. Forward
  "See pp. 409 ff. (front cover)."

Box 22  
  Annotation by Robert L. Forward
  "See page ix. I was on the New Camelot Team and made the summary presentation."

Box 11  
  Annotation by Author
  "To Bob -- who like me believes things should be done the hard way."

Box 11  
*Proteus Unbound* by Charles Sheffield. Published by the New English Library paperbacks. 1989.
  Annotation by the Author
  "To Bob, with thanks for all the useful suggestions."

Box 9  

Box 11  
*Der Regenbogen des Mars* by Robert L. Forward (German translation; Bastei Lübbe series). Published by Bastei-Verlag, Cologne. 1992.

Box 11  
  Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
  "See Afterward page 156 ff. Frenkel offered $250 after originally offering $500 for 5000 words. I told him to give it to Silverberg's SFWA indigent author's fund.
  He spelled my name wrong on the cover."

Box 10  
  Annotation by Author
  "To Bob, with thanks for all you're doing to make us an interstellar civilization!"
  Annotation by Robert L. Forward, 24 Dec 1986 (on inserted paper)
  "I influenced the inclusion of a chapter on interstellar flight. See chapter 13 and index."

Box 10  
  Annotation by Editor, 11/4/75
  "For Robert L. Forward, with all good wishes."
  Annotation by Robert L. Forward (on inserted paper)
  "I had nothing to do with this one. Just sent for your disposal."

Box 36  

Box 38, Folder 3  
Box 11  

Annotation by Robert L. Forward, 24 Dec 86 (on inserted paper)

"See page 69 about my gravity wave experiments and 72-73 about their trip up to Malibu. That ultimately resulted in *Far Out Physics*. I also gave them the idea for the Mote (green laser beam) in God's Eye, the Moties were using my one way laser pushed lightsail."

Box 10  

Box 36  