Described below are the papers and other materials donated to the History Office by Elliott Levinthal on April 7, 2004.

Box #1: “DIFF Pics by Sequence #” (1/4 full)
- Viking Lander DIFF Pics: 12” x 6” positive/negative stereo pairs, Sequence #1-102 (12/78-2/79)
- Viking Lander Special Pics: 12” x 6” positive/negative stereo pairs, Special #001, 002, 003-Backhoe Magnet Cleaning Sequence (8-9/78)

Box #2: “Office Box C: Anaglyph (3D) glasses, Mars & Multivator Slides; Stereo viewer & Slide Mount Vectograph” (includes 3 1/4x4 glass lantern slides)
- Abrams Model CB-1 Two or Four Power Stereoscope
- Taylor Merchant Stereo Viewer: cardboard and in sleeve
- Taylor Merchant Stereo Viewer: cardboard Stereopticon 707
- Realist Electric Stereo Viewer Model #2062 in box
- Box of Red & Blue cardboard Anaglyph 3D glasses
- Bag of Red & Green cardboard Anaglyph 3D glasses labeled JPL
- 2 booklets: Viking ‘76 and Mars: The Search Begins (presentation script for slides of the Viking Project)
- 1 4x3 black & white Viking Lander image
- Hubbard Scientific Co. Stereoscope Viewer: plastic & metal glasses
- 2 Stereo Vision Systems plastic rimmed glasses
- Pair of sunglasses: rims out of tubing and falling apart
- Box of EMDE Aluminum Mask Stereo Mounts
- 3 Boxes of 337 black & white 35mm slides produced from the Primary Mission Lander Imaging Team Data Record (TDR). Boxes labeled “Jones Photocolor” and includes a letter explaining the numbering system used (which is used else were in the collection, as well).
- Metal carrying case containing a tray of 585 numbered Viking Lander color slides and a tray of misc. slides including duplicates of the other tray, Multivator design images, and images of Saturn.
- Metal carrying case containing a tray misc. color and black & white slides Viking slides: launch, schematics, lander, and equipment.
- 2 sets of 100 numbered color slides of the Viking Mission (in 4 blue and white containers)
- Set of 38 numbered color slides of the Viking Mission (container labeled AAAS slides)
- 4 smaller boxes of color slides of Jupiter
- 10 color Kodak stereo slides of Viking Lander equipment and testing (#7730 5 H56 81240 4)
- 8 color Kodak stereo slides of medical/surgery images (#7741 2 H56 81240 4)
- TDC Stereo Selectray for Stereo Selectron changer: contains 26 color/B&W slides of the Viking Mission
- 26 - 3 ¼ x 4 Lantern glass slides from Mariner 9 (black and white)
- 21 - 3 ¼ x 4 Lantern glass slides from Mariner 9 (black and white) has some type fungus growth between the glass on about half of the slides.
- 21 - 3 ¼ x 4 Lantern glass slides of Mariner and Viking Lander 3D images; loose 35mm slides of equipment, models, and schematics
• 10 3/4 x 4 Lantern glass slides of Multivator

**Box #3:** "Color 1 of 2; Specials-Mosaics, Stereo & Projections" (contains 8x10 negatives)
- Viking Lander 1: 12” x 6” color photos in labeled envelopes and unlabeled clear sleeves (appear to be in somewhat of an sequential order) (4/77-3/78)
- Viking Lander 2: 12” x 6” color photos in labeled envelopes and unlabeled clear sleeves (appear to be in somewhat of a sequential order) (4-7/77)
- Viking Lander 1 & 2: 2 identical sets of 14 (TDR) Team Data Record 12” x 6” color photos
- Viking Lander: Mosaics (Range Dataset): 8x10 prints (3-10/79)
- Viking Lander: Mosaics (Range Dataset) 8x10 negatives (3-10/79)
- Viking Lander: Mosaics (Orthographic Projection): 8x10 prints (10-12/79)
- Viking Lander: Mosaics (Orthographic Projection): 8x10 negatives (10-12/79)
- Viking Lander: High Resolution Donut Projection 8x10 negatives (1/78)
- Viking Lander: High Resolution Donut Projection and Mosaic 8x10 prints (10-77-1/78)

**Box #4:** Viking Lander photo mosaics
- Viking Lander 2 Rectified Photomosaics Evening Scene Camera 1, Map I-1517 (Sheets1-5)
- Viking Lander 2 Rectified Photomosaics Evening Scene Camera 2, Map I-1518 (Sheets1-5)
- Viking Lander 2 Rectified Photomosaics Morning Scene Camera 2, Map I-1516 (Sheets1-5)
- Viking Lander 2 Rectified Photomosaics Morning Scene Camera 1, Map I-1515 (Sheets1-5)
- Shaded Relief Map of Mercury, Map I-1149
- Mercury: Relief and Albedo Marking Visible on Mariner 10 Images, Map I-1171
- Shaded Relief Map of Mars, Map I-940
- Topographic Map of Mars, Map I-961
- High Resolution Mariner 9 Pictures in the Cydonia Region of Mars, Map I-990
- Shaded Relief Map of the Chryse Region of Mars, Map I-939
- High Resolution Mariner 9 Pictures in the Cydonia Region of Mars, Map I-991

**Box #5:** 2 black binders
- *Mars in 3D* (correspondence, etc. re: movie, loan, rental and reproduction)
- clippings, notes, correspondence, etc. re: *Mars in 3D* film (scrapbook-like)

**Box #6:** 3 16mm tapes, magnetic sound recording tapes, *Mars in 3D:
- Mix-Voice and Music-Master Stereo (conservation—mold)
- Stereo 2 channel Mix; Protector; Voice and Music (conservation—mold)
- Voice track (conservation—mold)

**Box #7:** Ampex Tape
- *Mars in 3D* 1/4” Protection Master (conservation—mold, rust)

**Box #8:** "Instrumentation Research Laboratory (IRL) Reports" (in labeled folders, but some of the numbered folders in the sequence are missing). Dates range from 1960-1970.
- *Pioneer Saturn Encounter* brochure (9/79)
- *Voyager Encounters Jupiter* brochure (7/79)
- 4 Bibliographies of the Instrumentation Research Laboratory (IRL) Reports
- Folders: IRL #1000-1003
- Folder: IRL #1010
- Folders: IRL #1012-1024
- Folder: not numbered, but contents are the same as IRL #1037
- Folders: IRL #1027-1044
- Folders: IRL #1047-1048
- Folders: IRL #1051-1055
- Folders: IRL #1057-1060
- Folders: IRL #1062-1075
- Folders: IRL #1077-1081
- Folders: IRL #1083-1086
- Folders: IRL #1088-1090
- Folders: IRL #1093-1095
- Folders: IRL #1097-1104
- Folders: IRL #1107-1108
- Folders: IRL #1110-1121

Box #9: “IRL Reports, Misc. Corresp, Mars in 3D Stereo Setup & screens, Clippings/Publicity, Equipment Accountability, Linc Acme etc;” Box 4 A & B" (in labeled folders). Instrumentation Research Laboratory (IRL) Reports” (in labeled folders, but some of the numbered folders in the sequence are missing). Dates range from 1970-1977.
- Folder: IRL #1122
- Folders: IRL #1124-1127
- Folders: IRL #1129-1143
- Folder: IRL #1145
- Folders: IRL #1151-1158
- Folder: IRL #1175
- Folders: IRL #1191-1192
- Instrumentation Research Lab Report Numbers and Publication List
- Not Included on Biblio.: various articles and reports - Biochemistry, Apollo 11 Lunar Science Conference, Mass Spectrometers (1963-71)
- A Small Computer Approach to Low Resolution Mass Spectrometry report (11/1/67)
- Quantitation of B-Aminoisobutyric Acid in Urine By Mass Fragmentography report (8/73)
- Mars in 3D sound and picture editing notes
- Palmer Films: price list, notes, newsletters for film producing/processing company (1977-80)
- 3D Movies: Mars in 3D - outline, notes, correspondence (8/77-3/78)
- Academy of Motion Picture Arts & Sciences: Academy rule book and correspondence regarding the submittal of Mars in 3D for the 52nd Annual Academy Awards Documentary Award (1978)
- Viking Fund: correspondence, flyers, and solicitations regarding the fund established by the SF section of the American Astronautical Society (1980)
- Deep Vision: order form for 3D glasses
- Log of Rentals, Sales, & Screenings-Anaglyph Version: a few handwritten notes
- Log of Rentals, Sales, & Screenings-PolarizationVersion: movie log notes (1979)
- Misc. Correspondence: regarding Mars in 3D (2/79-1/80)
- Correspondence re Rentals, Sales, & Screening—Completed: Mars in 3D (11/77 & 1-11/79)
- Exploratorium: correspondence regarding Mars in 3D (7-8/79)
- Thank you’s & Testimonials: regarding Mars in 3D (4-11/79)
- Clippings/Publicity re Mars in 3D: Newspaper and magazine articles, NASA Impact Vol.1, No.3, The New Yorker 6-18-79, and 2 - 8x10 color photos of Levinthal at a presentation (1979-80)
- Stanford Auditoriums: Sherman Fairchild floor plans, Dinkelspiel floor plans, Beckman seating plan, list of all auditoriums @ the university.
- New York Institute of Technology: correspondence, NYIT 1977-78 catalog, report, 3 4x5 photos of digital graphic art
- Stereo Screens: Kodak and Stewart brochures regarding film projection screens
- NIH Equipment Accountability: correspondence regarding equipment (2-5/75)
- Acme & Other Equipment Accountability File: correspondence, notes, inventory lists (2/75-8/78)
- An Operating System for the LINC Computer IRL#1035 (11/1/65)
- LINC Evaluation Program report (3/65)
- LINC Sale: invoices, correspondence, user list (1965-75)
- Viking Fund, American Astronautical Society Sale (7/8/80): purchase agreement of Mars in 3D
- Stereo Hardware: invoices and expense reports for equipment (1975-76)
- Buhl Planetarium sale 6/12/80: purchase agreement, invoice, and correspondence for Mars in 3D
- UC Extension Berkeley Rental: rental agreement and correspondence for Mars in 3D, World of Our Stars brochure (4-5/80)
- American Astronautical Society sale 3/13/80: purchase agreement and correspondence for Mars in 3D
- USGS / Menlo Park Rental 3/4/80: rental agreement and invoice for Mars in 3D
- EDGE Rental 2/27/80: rental agreement and flyer for Mars in 3D
- Brown University Rental 11/5-6/79: rental agreement and correspondence for Mars in 3D
- Exploration sale 10/16/79: purchase agreement and correspondence for Mars in 3D
- Hayden Planetarium / American Museum of Natural History pending sale: correspondence for Mars in 3D
- Jet Propulsion Lab sale 12/27/79: purchase agreement, invoice, and correspondence for Mars in 3D
- 32 Minute Version Final Script: Master and 3 copies of Mars in 3D script (1/13/79)
- 23 Minute Version Final Script: Master and 2 copies of Mars in 3D script (2/22/80)
- Mars in 3D A Technical Description: 2 page version (8/28/79)
- Mars in 3D A Technical Description: 4 page version
- Technical Description of Film: 2 & 3 page versions
- Purchase & Rental Agreements (old style forms)
- Copyright for Mars in 3D: correspondence and forms (12/77-10/79)
- Stereo Set up for the Mars in 3D film

Box #10: "Viking Letters, Photos; Piece No. 13-10" (in labeled folders)
- Viking Lander 2: 18 11x5 b/w photos originals and duplicates (2-6/77)
- Viking Lander 1&2: color and b/w 8x10 photos some with captions (labeled as duplicates) (7-9/76)
- Viking Lander: b/w 8x10 photos (many duplicates and no date)
- Viking Lander/Orbiter 1 (duplicates): color and b/w 8x10 photos some with captions (7-9/76)
- Viking Lander/Orbiter 1 (duplicates): color and b/w 8x10 photos some with captions (7-9/76)
- Viking Lander/Orbiter 1&2 (duplicates): color and b/w 8x10 photos some with captions (7-9/76)
- Viking Lander/Orbiter 2 (duplicates): color and b/w 8x10 photos some with captions (9/76-11/78); "Commemorative Statement by the Viking Scientist" (7/20/76); copy of New York Times article (7/24/76)
- Mars Photos - Gifts: Viking Lander/Orbiter 1&2 (duplicates): color and b/w 8x10 and panoramic photos some with captions (9/76-8/79)
- Viking Lander/Orbiter 2: color and b/w 8x10 photos some with captions (8/76-1/77)
- Viking Pictures not Numbered – Misc. (Single Copies): Viking Lander/Orbiter 1&2, color and b/w 8x10 photos some with captions (7/76-5/78)
- Viking Pictures (Single Copies): Viking Lander/Orbiter 1, numerous color and b/w 8x10 photos some with captions (6/76-2/77)
- Viking Orbiter 1: 6 b/w 8x10s of same photo (6/23/76), 3 color 4x5 photos
- Mission Operations Status Bulletins: Viking Project (no.1-46) (3/31/75 - 10/31/78)
- Newsletter and (Viking) Science Activities No. 1-33 (1970-71)
- Newsletter and (Viking) Science Activities No. 34-50 (1972)
- Newsletter and (Viking) Science Activities No. 51-65 (1973)
- Newsletter and (Viking) Science Activities No. 66-79 (1974)
- Newsletter and (Viking) Science Activities No. 80-86 (1975)
- Newsletters Mariner Venus/Mercury Pioneer/Jupiter (1973-4)
- Optronics Science Art (1): Viking Lander, b/w 8x10 mosaic photos; 4 - 8x10 sheets of mosaic negatives
- *Multispectral and Stereo Imaging on Mars*: International Astronautical Federation paper by Levinthal (10/76)
- Science Magazine Articles and Photos: August, 27 1976 Volume 193, No. 4255; October, 1 1976 Volume 194, No. 4260; December, 17 1976 Volume 194, No. 4271
- 15 folders of 8x10 Viking Mission Photos:
  - Figure 1 Viking Lander
  - Figure 2 Field of View of Cameras
  - Figure 3 Cutaway of Camera
  - Figure 4 Photosensor Array
  - Figure 5 Spectral Responsivities of Photosensor Array
  - Figure 6 Lander 2 Color Mosaic
  - Figure 7 Camera gains and Offsets
  - Figure 8 BB1 Diode 1st Picture Lander 1 Footpad
  - Figure 9 Survey Mode Panorama Lander 1
  - Figure 10 BB3 Diode Image of 3m Rock Lander 1
  - Figure 11 BB4 Diode Lander 1
  - Figure 12 Rescan Mode Footpad Lander 1
  - Figure 13 Interactive Stereo Station
  - Figure 14 Stereo Pair Vertebral Profiling
  - Figure 15 Vertebral Profile
  - Viking Project Bulletin *The Colors of Mars* (12/76)
  - Ortho Projections - Mosaics: 8x10 b/w photos
- *The Mosaics of Mars: As Seen by the Viking Lander Cameras* report (9/80); numerous Viking Lander 8x10 b/w photos
- Vectorgraph: brochure, articles, samples of the Polaroid Vectorgraph Prints
- Vectorgraph Literature: articles and notes on the process
- Stereo Mosaics: *The Mosaics of Mars: As Seen by the Viking Lander Cameras* report (9/80); 8x10 b/w mosaic photos and negatives
- Anaglyphs: Viking Lander 3D articles, prints, glasses, negatives
- Stereo Pairs: Viking Lander 4x5 and 8x10 black and white photos and corresponding negatives
- Stereo Set-up: Procedures for setting up stereo movie equipment
- Stereo Photos and Negatives: 4x4 and 8x10, color and b/w
- Stereo Pairs: 6 negatives
- Viking Orbiter Stereo pairs (8/16/77)

**Box #11:** “Reprints, Public Talks, Speeches, Personal Data, Date Books: Box 3” (mostly in labeled folders)
- Proceedings of SPIE-The International Society for Optical Engineering, Vol. 360 “Robotics and Industrial Inspection”
- *Investigation of a Photoelastic Shutter at its Fundamental Mode of Vibration* May 1943
- 24 Misc. Articles (Viking Related) 1964-1976
• 6 copies of the *Biological Exploration of Mars* Papers 1963-1964
• 2 copies of the *Mission Constraints and Yields* Papers
• Misc. Papers/Reports 1976
• Notes/Outlines for Talks 1965-1976
• Viking TALR-EL: Lecture notes that correspond with slide shows 1976-1980; Reports – *Multispectral and Stereo Imaging on Mars, Exploring the Surface of Mars with the Viking Camera, Stanford’s Trip to Mars, Lander Imaging as a Detector of Life on Mars, Topography from the Lander Camera* ca. 1976; Viking 2 photos 8/23/76, Test photo 6-74; correspondence 1976-1977; chart depicting team leaders and key personnel with various missions and projects.
• Lectures and other Public Service: correspondence and articles pertaining to lectures 1977.
• Personnel Data - 1979: Biographical Sketch, publication listing, resume, news paper article about 3-D Mars movie.
• JPL Consulting: consultant invoices, receipts, correspondence, notes 1977-1979
• Levinthal, Elliott (Public Service, NASA, HEW): records relating to employment and financial interests 1974-1977
• 12 Calendar Date Books, 1968-1980

**Box #12**: “Viking Material; Piece No. 13-14” (clippings, reports, computer print-outs, publications, tapes)
• Viking Project Head 7/28/76 uncut photographs on a spool
• One-Sheet Reference Skyline Drawing (Camera 1&2 View) 83700020100
• 2 Certificate of Acknowledgements for Viking Project
• Overhead transparency of cross-section of Lander camera system
• Buttons: 2 “Smile Hello Mars”, 1 “Smile Again!”
• 7 Viking Project pamphlets
• *Viking Mission* book published by AAS (1973)
• 2 *Viking Mars Lander Camera* articles from *Space Science Instrumentation* (1975)
• Stickers: 3 “Project Viking Mission to Mars”, 2 “Hello Mars” bumper stickers
• 2 Polalite 3D Viewer cardboard glasses
• ¼” Audio tape of Viking News Conference 6/25/76 (copy)
• 4 Science Magazines: August, 27 1976 Volume 193, No. 4255
  October, 1 1976 Volume 194, No. 4260
  December, 17 1976 Volume 194, No. 4271
  June, 1 1979 (reprint collection)
• Picture of Lander Imaging Flight Team logo (stuck onto back of Science Magazine)
• 11 sheets of slides
• 13 8x10 photographs of Mars with captions (Viking News Center)
• Correspondence - Tim Mutch 10/28/76, Kermit Watkins 1/28/83, Ken Jones
• Photo captions for slides (1976)
• Viking Project Library 35mm slide catalog
• Viking Project Library Team Data Record Slides catalog
• Misc: Script for slides, 2 articles on 3D, 2 photos of Mars, Reports
Box #13: “Viking Project” sticker; labeled folders (site selection, etc); “Piece No. 13-6”

- Mars Scientific Model, Vol. 1 Document No. 606-I
- Memorandums, articles, and reports about TDR Color Processing
- Stanford Artificial Intelligence Project (Stan-CS-71-219): Computer Comparison of Pictures by Lynn Quam (5/71)
- Bibliography of Viking Mars Science, Reprints of articles pertaining to Mars/Viking Mission (1972-77)
- Mosaicking Description report, Ranging documents: Ranger-Vlgeom & Ranger-Marscor, Location of Viking 1 Lander on the Surface of Mars article from Icarus Vol. 34 (1978)
- Edward Ezell (Viking Project Historian): correspondence and draft of Selection and Certification: The Vikings’ Search for Landing Sites on Mars manuscript (1977)
- NASA History related to Viking Missions: Newspaper clippings & Viking Bulletin (1976), Viking Newsletter (8/9/74), reports, notes, and correspondence pertaining to Voyager and Mariner Missions
- New Yorker articles pertaining to the Mars Missions and articles about Carl Sagan (1976-77), Martin Marietta News No.4/1979
- Memorandum and article pertaining to the Russian Mars 4-7 spacecraft from an issue of Pravda (8/15/73)
- Newspaper clippings about the Viking Mission, Magazines: Today Martin Marietta-Viking: Intellect and Ingenuity Triumphant No.3 (1976); Aviation Week & Space Technology Vol. 105, No. 15 (10/11/76); Time Magazine (12/13/71); Time Magazine (8/2/76)
- 3 copies of Viking Project II Bulletin, No. 27 about Viking 3&4
- Galileo JPL Image Processing Plans: reports, notes, minutes (1978-80)
- Imagery Team Proposal Drafts and correspondence for the Viking Missions (1969)
- Viking ’75 Photomosaics and Geologic Maps of Chryse and Cydonia Landing Sites, and Report on the landing sites (11/23/73)
- American Society of Photogrammetry: correspondence, article and report (1978-80)
- American Association for the Advancement of Science (AAAS) Meeting in San Francisco (1/5/80); correspondence and notes; National Geographic article Mars as Viking Sees It (1/77); Viking Mars Expedition 1976 book published by Martin Marietta
- Cospar: Twentieth Plenary Meeting – Four Symposia and Open Meetings of Working Groups program and abstracts book (6/77)
- Viking ’75 Mars Lander Interactive Computerized Video Stereophotogrammetry report (9/30/77)
- Range Dataset for the Viking Lander: correspondence, reports, notes (1975-80)

Box #14: “Piece No. 13-7,” labeled folders (“multivator, Mariners Mars ’71, etc)

- Multivator 3 (Mark III) (Tech. Notes): photos
- Multivator 2 (Mark II) (Tech. Notes): photos & negatives
- Multivator 1 (Mark I) (Tech. Notes): photos & negatives
- Multivator and Lander (Tech. Notes): photos, negatives, charts
- Platt - Signs of Life Notes, July-September 1963
- Signs of Life - MSS and Notes: reports, correspondence, notes 1964-1966
• Manned Mars Missions (Tech. Notes): Reports 1963-1964
• Surveyor I Photos: June 16, 1966
• Surveyor: photos and correspondence 12/14/67-2/28/68
• Mariner and Ranger Photos (Tech. Notes): lunar and model photos, reports 1964-1965
• Mariner 7 photos and notes
• Mariner 4 Pictures: photos 7/14 & 17/65, Mariner Mars Bulletin 8/4/65
• Mariner 1965: technical report 1964, photo 7/14/65, Status Report 1971
• Mariner Microscope (Tech. Notes): Reports, invitation to Lederberg to become an experimenter Feb. & Oct. 1961
• Quasi-Microscope (S. Liebes): reports, notes 10/1/69
• Huck/Multispec: NASA Technical Memorandums and notes, memorandum, reports April - August 1975
• Imagery for a 90 day mission by T.A. Mutch: Reports, correspondence March - April 1969
• Mariner Mars Photographs & Status Bulletins: Mariner Mars 1971, Mariner Venus/Mercury 1973, correspondence
• Mariner 1971 photos
• Computer Matching of Areas in Stereo Images by Marsha Jo Hannah, July 1974
• Motion Detection: reports 10/1/69, memorandum 5/30/73
• Mariner 9 TV: report 11/6/72, article 7/20/73
• Extraterrestrial Life: reports 1962-1966, article 1974

Box #15: "Mars in 3D – Glasses, U-matic tape, Cables; Piece No. 13-12"
• Instructions for hook-up of Mars in 3-D
• Mars in 3-D Technical Description (numerous copies)
• 3-D TV Corp Stereo Driver
• AC Power Adapter
• Assorted Cables: Mini Y-Plug, RCA, RF Adapters

Box #16: "Viking Material – Press Releases" (in labeled folders)
• Envelope with 3 Viking Lander 2 color positives
• 5 Jupiter photos in color 8x10
• Viking Lander 2 photos 10x5 (9/76)
• 5 Viking 1 & 2 photos with captions 8x10 (9/76 to 10/77), 5 test photos 8x10 (5/27/75)
• 18 IPL Special Photos Viking Lander 2: 8x10
• 9 Special Photos Viking Lander 1: 8x10 (8/76), 2 Positives
• 2 Flagstaff Color Positives (7/21&26/76)
• Viking 1&2 Color and B&W photos: 8x10 with captions (6/76 – 6/77). Many Duplicates.
• 4 Levinthal photos B&W 8x10; Goddard Trophy Award with photo of trophy and letter from President Jimmy Carter (4/1/77)
• Viking Lander 2 Photos, mostly B&W 8x10 (9/76)
• 2 Mercury Stereo Pair photos B&W 8x10
• Reports and correspondence with the Center of Astrogeology (10/74-4/75)
• Viking 1&2 Photos, some with captions, 1 Orbiter photo (7/67-10/76)
• 9 Mars Viking articles (1975-1980)
• Viking Grand Dunes Tests: Viking Newsletter (8/9/74); 20 photos of tests at Martin Marietta Denver facility- color, B&W, 8x10 with captions (6/74)
• Orbiter Stereo Photos 2x3 (4-6/77)
• Megatek: brochures, correspondence, and notes regarding manufacturer of 3D glasses (4-8/79)
• Viking 1&2 Image Difference: 31 8x10 photos, technical notes (4-5/77)
• Papers by Levinthal & Liebes: 2 Topography from the Lander Camera-Methodology & Results and Viking article from Journal of Geophysical Research Vol.82, No.28 (9/30/77)
• Lander Imaging as a Detector of Life on Mars article from Journal of Geophysical Research Vol.82, No.28 and the photographic prints and positives that were used for the article (9/30/77)
• Processing the Viking Lander Camera Data article from Journal of Geophysical Research Vol.82, No.28 and the photographic prints and text that were used for the article (9/30/77)
• Viking Press Kit – release no. 75-183
• Preliminary 8x10 versions of Viking mosaics (8-10/77)
• Final 8x10 versions of Viking mosaics (10-12/77) and notes
• Interface Age magazine Vol.2, Issue 9 (8/77)
• Viking 1 Early Results, published by NASA # SP-408 (1976)
• Why Man Explores, published by NASA # EP-125 (7/2/76)
• Today Martin Marietta- Viking: Intellect and Ingenuity Triumphant No.3 1976
• Itek Viking Camera System Press Information Kit
• Viking Press Kit: stickers, 1 8x10 color photo of launch, and Viking Mission to Mars book #SP-334
• Mars/Viking Articles:
  o 4 NASA Facts, published by NASA #NF-62/6-75, NF-76/6-75, NF-61/8-75, and NF-59/12-75
  o Martin Marietta News No.12&13 (1976)
  o EOS Transactions, American Geophysical Union Vol. 57, No.10 (10/76)
  o 2 Astronautics & Aeronautics Mars -Worth Another Look? (11/76)
  o 2 Viking Mars Lander Camera articles from Space Science Instrumentation 1 (1975)
  o Albedo Boundaries on Mars in 1972: Results from Mariner 9 from Icarus 27 (1976)
  o Color and Feature Changes at Mars Viking Lander Site from J. Theor. Biol. 75 (1978)
  o 2 Mars as Viking Sees It from National Geographic (1/77)
  o 2 copies of Viking I: End of First Phase of 70's Space Spectacular from Research News (11/19/76)
  o Six Articles by Carl Sagan from NASA News, release no: 76-74 (4/30/76)
  o Derivation of Martian Names report
• Viking Launch Press Kit Information and Newspaper clippings (1975)
• Itek Corporation: 3 8x10 photos, Technical Bulletins (1975)
• Geologic Map of Mars, Map I-1083
• Controlled Mosaic of the Yorktown Region of Mars (Viking 1 Lander Site), Map I-1059
• Controlled Mosaic of the Utopia Planitia Region of Mars (Viking 2 Landing Site), Map I-1061
• The Viking Mission to Mars book, published by Martin Marietta (1975)
• The Face of Mars: Mariner 9 book, published by NASA (6/72)
• Interagency Report: Astrogeology 63 – Topographic Mapping of Mars (12/75)
• Mars Synthetic Topographic Mapping from Icarus Vol. 33 No. 3 (1978)
• Diurnal and Seasonal Behavior of Discrete White Clouds on Mars from Icarus Vol. 16 (1972)
• Geology of Chryse Planitia article from Journal of Geophysical Research Vol. 82, No. 28 (9/30/77)
• Journal of Geophysical Research Vol. 82, No. 28 (9/30/77): contains some articles that are listed above.
• NASA Activities Vol. 6, No.7 (7/75)

Box #17: "Mars Conf, Shuttle Utilization, Shuttle Science Working Group, NASA Group Study on Machine Intelligence & Robotics; Box 1" (quasi-published, not in folders or arranged)
• NASA Study Group on Machine Intelligence and Robotics:
  Workshop I: Program Overview Vol. 1 & 2 (6/27-29/77)
  Workshop II-A: Planetary Surface Rover Technology (9/28-29/77)
  Workshop II-B: Computer Architecture for Future Space Missions (9/30/77)
  Workshop IV: Robots and Man-Machine Systems Operations
  Workshop V: Image Data Processing (3/8-9/78)
• Shuttle Science Working Group: correspondence, reports, notes (1984)
• Shuttle Utilization: correspondence, reports, notes pertaining to Shuttle Science Working Group (1/84)
• Consultative Committee for Space Data Systems: Packet Telemetry (5/84), System and Implementation Aspects (6/84), Concept and Primary Label (7/84)
• Space Science & Applications Notice (6/14/84)
• Manned Mars Missions: Working Group Summary Report (5/86)
• Mars Conference-Washington DC July 1986: reports and articles pertaining to manned missions to Mars, Planetary Report Vol. 6 No. 4 1986 with article about Viking Mission
• 2 Future Use and Needs of the Space Station Complex for Science and Applications, Revised Draft 8/3/84
• Spartan Capability Statement 2/84 (Goddard Space Flight Center)
• Viking Mission Reports: Development of a Reliable Flight Program (1975), and Remote Diagnostic Techniques Used in Viking Lander Operations (5/19/77)
• Space Station Summer Study: schedules and reports (8/13-17/84)
• NASA Advisory Council: Minutes, correspondence, reports (2/84-6/84)
• NASA Study Group on Machine Intelligence & Robotics (9-11/77)
• SESAC task Force on the Scientific Uses of Space Station (8/84)
• Various Reports
  Summary of NASA’s Space Program (1977)
  Mission Independent Ground Operation Systems (11/14/77)
  Extended Mission Duration (1/25/84)
  Space Station Mission Requirements (5/8/84)
  NASA Space Technology Assessment (3/84)
  Spacelab: Payload Operations Control Center (3/9/84)
  Historical Review of Space Platform Payload Requirements (8/82)
  Office of Space Science and Applications: Program Plans (5/25/84)
  Geodynamics (n.d.)
  Earth Science and Applications (12/6/83)
  NASA’s Support of the Space Industry “Hearth Report” (4/3/84)

Box #18: "Mars Literature/Images" (loose material, no order)
• 16 Viking 2 panoramic photos with captions
• 2 "Smile Mars" button
• “Hello Mars” bumper sticker
• Viking Lander 2 Camera 1 Photo 9/16/76
• 5 Viking 1 photos with captions July/August 1976
• 19 Duplicate Viking 2 photos (some with captions) June 1976-March 1977
• 24 Science pictures (extra) July 1976
• 4 GRE Color Original photos July 1976
• 7 Viking 2 photos with captions July-September 1976
• 2 Campus Report Stanford University Newspaper April, 20 1977
• 21 Viking 1 & 2 photos June 1976 – March 1977
• Science Magazines: December 17, 1976 Vol. 194, No. 4271
  October 1, 1976 Vol. 194, No. 4260
  3 reprint articles – December 17, 1976 Vol. 194, p. 1277-1283
  3 reprint articles – October 1, 1976 Vol. 194, p. 87-91
  4 copies - August 27, 1976 Vol. 193, No. 4555
• 2 Viking Mission Status Bulletin, No. 46, October 31, 1978
• Viking 1 Early Results 1976 Technical Report NASA SP-408
• Voyager - Journey to the Outer Planets brochure
• Spinoff 1978 Annual Report published by NASA
• American Scientist article Viking on Mars: A Preliminary Survey Nov.- Dec. 1976
• National Geographic Journey to Mars and map, February 1973
• Aviation Week & Space Technology Viking on Mars 1976
• Planetary Exploration Through Year 2000 Report
• Nimbus-7 Report December 1983
• The Mosaics of Mars NASA Contractor Report 3326, September 1980
• National Geographic Mars as Viking Sees It, January 1973
• National Geographic Earth’s Moon map
• Space Program in the Post-Apollo Period report, February 1967
• Book in Russian
• NASA Technical Translation NASA TT F-698, May 1972
• Why Man Explores, published by NASA, July 2, 1976
• Organic Matter and the Moon, published by National Academy of Sciences-National
  Research Council #757, 1961
• Icarus, Vol. 28, No. 2, June 1976
• Icarus, Vol. 50, No. 2/3, May/June 1982
• National Geographic, Vol. 151, No.1, January 1977 (Mars-Viking)
• Article from Journal of Geophysical Research, Vol. 78, No. 20, July, 10 1973 (Mariner 9)
• Viking Mars Lander Camera article from Space Science Instrumentation 1975
• NASA Information Kit August 1983 (Challenger)
• Viking Project Mission Status Bulletins complete set 1-41, 1975-1976
• 17 Viking Photos (1976)
• 7 Viking Logos
• Viking Awards Ceremony brochure
• Postcard and letter from Roland Sensini in Italy, 9/8/76
• Large photo of Jupiter
• Viking press-kit, 7/20/76
• Viking 1 poster: first color picture of Mars
• Mounted photo “Lander-Imagery-Team Associate Leader Dr. E.C. Levinthal”
• Mounted photo “Denver Camera-Science Test Site”
• 2 Certificate of Acknowledgements for Viking Project
• 3 copies of New York Times article - Fix Lander Arm, 7/24/76
• Viking 1 on Mars poem in The Nation 10/ 9/76

Box #19: “Stereo Pairs” (photos in sleeves and envelopes, numbered)

• 1 Mil Lander 1- 12” x 6” positive/negative stereo pairs (left in the order that they were
  found in the box)
- 1 Mil Lander 2- 12” x 6” positive/negative stereo pairs (left in the order that they were found in the box)
- Lander 12” x 6” positive/negative stereo mosaic left & right pairs (Sequence Number 001-165) date 1978-1979.

Box #20: Oversized Objects: flat photos, mounted photos, boards, images

Box #21: Oversized Tube: “Viking Lander Mosaics”

Box #22: Tube: “A Lazy Day in Utopia” (posters)

Box #23: Oversized square tube: “Lander I Mosaics”

Box #24: Record Box: “Stereo Viewers/Tim’s Letter 10/28/76, Film … Interactive Pic Processing-IRL, Stereo Mounts: special slides, slides for talks; Piece No. 13-11

Box #25: Box: “Mars in 3D audio original tapes, polarizing materials, keystone cards, projector lamp”

Box #26: Box: 3 globes of the moon and Mars

Box #27: Plastic Container: “Orbiter Microfiche”

Box #28: 3 folders:
- “Primary Mission TDR Catalog”
- “Primary Mission TDR Catalog (duplicate)”
- “Informal Memorandum, March 1, 1977, re: TDR’s (Team Data Records) for Lander Imaging”

Box #29: Flat Box: “Orbiter microfiche”

Box #30: 2 VHS reel-to-reel tapes in plastic containers:
- “Stanford University Mars in 3D @ 23 min.”
- “23 min. anaglyph c-roll answer print”

Box #31: 3 reel-to-reel- handled cases, with straps:
- “Answer print”
- “1st Release, Print #2, Old Scenes”
- Print #3, 2nd Release, from CRI; Mars in 3D Polarized ver L&R Reels”

Box #32: 5 Print boxes:
- “Landers 1 & 2; 1 mil. Interpolations; Levinthal”
- “Lander 2; COLOR; Levinthal”
- “Lander 1; COLOR; Levinthal”
- “Landers 1 & 2; STEREO PAIRS; DIFFPICS; Levinthal”
- “Biological Sciences Communication Project”

Box #33: U-matic tape: unidentified

Box #34: 2 VHS tapes:
- “AVC-91-091: Magellan Venus Radar Mapping Results, 3/5/91”
- “AVC-91-091: Magellan Venus Radar Mapping Results, 4/22/92, 15:04”