George M. Low Papers, 1930-1984

Collection Number: 1987-12

Processed by Project Archivist Sylvia B. Kennick

Rensselaer Polytechnic Institute
Cover illustration: George M. Low intently monitors the progress of the Apollo-Soyuz Test Project flight, 1975. (Low Papers, Box 80 Folder 2)

For W.E.K., A.H.K. and M.J.K.

Occasional Papers of the Friends of the Folsom Library, Rensselaer Polytechnic Institute, Number 2

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Preface

It is the dream of every library to capture the spirit of an author in its collection of his works. The more complex the character, the fuller the life, the more difficult it becomes to translate back from the written record into a sense of the entire personality responsible for that documentation. And as our civilization evolves ever-improving means of writing, editing, and copying by machine, we begin to lose some of the sense of the individual that endures in the holographic correspondence and notes of an earlier time. Those who will study and use the papers of George Michael Low will have the benefit of superb records meticulously assembled, first by their talented author and then by their dedicated archivists. The papers will reveal the development of an inquiring student into a fine engineer, an engineer into an innovative researcher, a researcher into a superb manager. The papers cannot reveal the subtle aura of confidence and attention and loyalty that contribute so much to charisma and leadership. They cannot capture the light wit and natural charm of the man any more than they can display his fierce, driven dedication to absolute excellence in performance of the men, machines, and organizations for which he was responsible.

It is perhaps redundant to note here once more that without George Low in exactly the places he occupied from 1950 to 1976, the United States would not have been able to land men successfully on the Moon beginning in 1969, nor to enter the new Shuttle era of space travel beginning in 1981. His papers will amply demonstrate that he was far from alone in these contributions; the fundamental operating unit in George Low's NASA experience has always been the team, whether he was member, contributor, or leader. But without him, those extraordinary teams would have lacked the final sparks of ingenuity, those extra quanta of strength that finally meant success.

It was a delight to know George Low and a privilege to work with him during NASA's most trying and triumphant years. May every scholar who turns to these papers for information and knowledge also reserve a share of the inspiration and wisdom that characterized the career of George Michael Low.

James C. Fletcher
Administrator
National Aeronautics and Space Administration
Introduction

The GEORGE M. LOW PAPERS, 1930-1984, contain the largest extant body of material which George M. Low (1926-1984) created and collected. It appears that during George Low's NASA transfers, he culled from his personal office files those files in which he had a particular interest. He mentions in several instances that he wished to write a book, and was collecting materials for this effort. His collecting habits, however, resulted in numerous files being left behind. Some of these papers were subsequently collected by the Federal Records Center and the NASA History Office. (Brief descriptions of these materials are located in Appendix E.) Those materials which George Low brought to Troy when he assumed the RPI presidency, and papers which his office staff packed up upon his death, formed the collection which was donated by Mrs. Mary R. Low to RPI in October 1986. In November of that year, RPI Archives and Special Collections began a project to organize the collection and produce a guide to its contents.

The Papers currently comprise 76 cubic feet of manuscript and audio-visual material, 11 cubic feet of books and reports, and 20.4 cubic feet of artifacts. Every effort was made, in organizing the collection, to reproduce George Low's original basic office file structure. During appraisal of the collection, separations were made from the Papers. These included duplicate materials, routine materials available at other repositories, and the bulk of Low's library (see Appendices C and D for listings). In addition, the bulk of the papers relating to George Low's RPI presidential career and his service on numerous boards and committees were segmented from the collection and, in accordance with Institute policy, have been closed to research use. These restricted materials have not been listed or described in this Guide.

Conservation performed on the Papers included: rehousing materials using acidfree supplies; removing non-archival fasteners, such as rubber bands, rusted staples and paper clips; flattening crushed, folded or rolled papers; duplicating audio tapes; placing photographic material into mylar sleeves; and photocopying extremely acidic or unstable materials onto acidfree paper (some of the original acidic documents have been retained and may be consulted by researchers; see the listing of box 173 following the collection inventory).

The Guide to the George M. Low Papers has been divided into several major components. The Biographical Note and Chronologies provide an overview of George Low's rich and varied life. The Scope and Content Note provides a textual description of the contents of the collection, and the subsequent box and folder listing of the Papers allows researchers to locate specific items of interest. Also of note are the various appendices, including a
listing of acronyms and abbreviations, a photograph index to the Low Papers, separations lists, and a brief description of additional Low materials in other repositories.

I would like to thank the following individuals who contributed to the George M. Low Papers project: Martin Collins, of the Smithsonian's National Air and Space Museum, who consulted with RPI Archives and Special Collections at the start of the project and furnished useful comments on one of the final drafts of the Guide; Elizabeth C. Stewart and John Dojka, past and present RPI Archivists, and Barbara A. Lockett, Director of RPI Libraries, who directed and administered many aspects of the project; Kristine Waldron, RPI Assistant Archivist, and Shirley M. Molloy, who provided valuable research assistance; my extraordinarily able assistant, Michael Gunderloy, whose efficiency, hard work and humor helped us meet our project deadlines; Mrs. Mary R. Low and Mark S. Low, who donated photographic images to illustrate the Biographical Note and who exhibited such interest and excitement in the project; and the Friends of the Folsom Library, who provided funds to aid in the printing of this Guide.

Sylvia B. Kennick
Project Archivist
Institute Archives and Special Collections
Rensselaer Polytechnic Institute
GML as a child in Austria, ca. 1930. (Courtesy of Mrs. Mary R. Low)

GML (second from left) poses with his Delta Phi fraternity brothers, ca. 1945. (Courtesy of Mrs. Mary R. Low)

GML in the U.S. Army, ca. 1946. (Courtesy of Mrs. Mary R. Low)
Biographical Note

George Michael Low (GML) was born Georg Wilhelm Low on 10 June 1926 near Vienna, Austria. His parents, Artur and Gertrude (Burger) Low, owned farm land and ran an industrial alcohol factory. In 1938, four years after Artur Low's death, the Low family emigrated to the United States. Travelling via Switzerland and England, they arrived here in 1940. In 1943, GML graduated from Forest Hills High School, Forest Hills, NY, and entered Rensselaer Polytechnic Institute (RPI). Originally registering his major course of study as mechanical engineering, he changed to aeronautical engineering in his sophomore year. GML was also a member of the Delta Phi fraternity and, from 1943 to 1948, served as secretary, treasurer and then president of the RPI chapter. From 1944 to 1946, GML served in the U.S. Army as a topographic draftsman. He also received his pilot's license at this time. In 1945, he became a naturalized American citizen, and legally changed his name to George Michael Low. After receiving his Bachelor of Aeronautical Engineering degree from RPI in 1948, GML worked at General Dynamics (Convair) in Fort Worth, TX. As a mathematician in an aerodynamics group, he conducted performance calculations for bomber aircraft. GML returned to RPI later in 1948 to continue work in aeronautical engineering. He received his Master of Science degree in 1950. In 1949, GML married Mary Ruth McNamara of Troy, NY. Between 1952 and 1963, they had five children: Mark S., Diane E., George David, John M. and Nancy A.
In 1949, GML joined the National Advisory Committee for Aeronautics (NACA) as an Aeronautical Research Scientist at the Lewis Flight Propulsion Laboratory in Cleveland, OH (later the Lewis Research Center). As Research Scientist, and later Head of the Fluid Mechanics Section (1954-1956) and Chief of the Special Projects Branch (1956-1958), GML specialized in experimental and theoretical research in the fields of heat transfer, boundary layer flows, and internal aerodynamics. In addition, he worked on such space technology problems as orbit calculations, reentry paths and space rendezvous techniques. While at Lewis, GML also taught graduate-level courses in advanced engineering mathematics, heat transfer, and boundary layer theory.

During the summer and autumn of 1958, preceding the formation of the National Aeronautics and Space Administration (NASA), GML worked both in Cleveland and Washington, DC. He supported Abe Silverstein at Headquarters in planning the scope of the new agency, and worked with Robert Gilruth in putting together the final plans for Project Mercury.
Soon after the organization of NASA in October 1958, GML transferred to the agency's headquarters in Washington, DC. Under Abe Silverstein, then Director of Space Flight Programs, he served as Chief of Manned Space Flight. In this capacity, he was closely involved in the planning of Projects Mercury, Gemini, and Apollo. From April to December 1959, GML also participated in NASA's Goett Committee. This select group studied and suggested a number of agency objectives, among them a lunar landing. GML's Manned Lunar Landing Task Group, which was formed in Oct. 1960, supported the manned lunar landing goal through its investigation of technical and planning requirements. In Jan. 1961, the Manned Lunar Program Planning Group, of which GML was chairman, began to prepare the position paper detailing the Program plan, including cost and schedule estimates. The findings of the Planning Group provided the technical background for President John Kennedy's decision in May 1961 to commit the U.S. to landing a man on the moon before the end of that decade.
As the space program expanded and NASA reorganized in an attempt to better manage its projects, GML moved quickly through positions of increasing responsibility. In June 1961, he was named Assistant Director of Manned Space Flight Programs under the Office of Space Flight Programs. In Nov. of that year, when the Office reorganized into the Office of Manned Space Flight (OMSF) under the direction of D. Brainerd Holmes, GML became Director of Spacecraft and Flight Missions. Early in 1963, when GML became one of two Deputy Directors of OMSF, he assumed responsibility for launch vehicle and space medicine programs, as well as spacecraft development. Later that year, he was named Deputy Associate Administrator of the Office which was now run by Associate Administrator George Mueller. As Mueller's Deputy, GML took charge of the overall management and direction of the Mercury, Gemini, Apollo and Advanced Manned Missions Programs, and the field centers directly associated with those programs.

In Feb. 1964, GML transferred to NASA's Manned Spacecraft Center in Houston, TX (now the Johnson Space Center). As Deputy Director under Robert Gilruth, GML functioned as the Center's general manager. He had overall responsibility for the Gemini and Apollo spacecraft efforts, as well as future program planning and development. Such future projects included Apollo Applications (later the Skylab program), the Lunar Receiving Laboratory, and space science experiments. GML also managed flight operations, and oversaw the selection and training of astronauts.

In April 1967, following the Apollo 204 fire, GML was named Manager of the Apollo Spacecraft Program Office (ASPO). To make and keep Apollo flightworthy, he oversaw the detailed redesign, development, manufacture and testing of the nearly 4 million parts which made up the Apollo Command and Service Module, and the Lunar Module. GML's activities included management of the program budget, continued investigation of flight anomalies, and coordination of information, changes and procedures among the ASPO engineers and scientists, contractors, and other NASA centers. Under his direction, eight Apollo flights were successfully flown. Among these missions were Apollo 8, the first manned lunar orbital flight (Dec. 1968) (the plan for which was initiated by GML), and Apollo 11, the first manned lunar landing (July 1969).
Biographical Note

GML pours over paperwork in the Apollo Spacecraft Program Manager's office, 1967. (World Book Encyclopedia Science Service, Inc., courtesy of World Book, Inc.; Low Papers, Box 1 Folder 7)

GML monitors the Apollo 11 astronauts at his console during the lunar landing mission, 1969. (Low Papers, Box 92 Folder 7)

(L to R) GML, Gen. Samuel Phillips, Eugene Edmonds, Thomas Paine and Robert Gilruth gather around a box of lunar samples collected by the Apollo 11 astronauts, 1969. (Low Papers, Box 135 Folder 4)
GML was appointed Deputy Administrator of NASA by President Richard Nixon in Dec. 1969. Under NASA Administrators Thomas O. Paine and later James C. Fletcher, GML served as the agency's "general manager," with lead responsibility for internal activities. He oversaw center and agency planning, budget formulation and use, management of personnel and facilities, and the development and operation of myriad programs and projects from satellite systems to the Space Shuttle Program. Through his management and planning, GML also strived to guide NASA through its post-Apollo transition toward new goals for the 1970's and 1980's. During his tenure as Acting Administrator, Sept. 1970-May 1971, GML managed and developed many of NASA's exterior contacts. These included the negotiation of a space agreement with the Soviet Union, which lay the foundation for the Apollo-Soyuz flight in 1975, and other joint space projects.
Although GML left NASA's employ in 1976, he continued his association with the agency, offering his services as a consultant. In this capacity, he participated in such activities as Space Shuttle reviews, NASA institutional assessment meetings, and President-elect Ronald Reagan's NASA Transition Team. The latter activity, of which GML was Team chairman, involved the assessment of NASA's strengths and weaknesses in 1980.

In the spring of 1976, GML accepted RPI's offer to become the 14th President of the Institute. During his eight years in office, he developed RPI into a nationally renowned research university, broadened the Institute's programs to include several new areas of technology and,
through these programs, established RPI as a setting for the cooperative interface of academia, industry and government. GML developed the concept of Rensselaer 2000 as a planning guide for the university, undertook major fund-raising activities, and oversaw the completion of such campus building and renovation projects as the Jonsson Engineering Center and the Voorhees Computing Center. RPI's ties to industry and government were physically realized in the development of the Rensselaer Technology Park in North Greenbush (1981), implementation of the Incubator Program (1981), and the establishment of new cooperative programs through the Centers for Interactive Computer Graphics (1978), Manufacturing Productivity and Technology Transfer (1979), and Integrated Electronics (1981). These Centers formed the basis of GML's 1981 proposal to Gov. Hugh Carey to establish New York State's Center for Industrial Innovation (CII) at RPI. The CII was renamed the George M. Low Center for Industrial Innovation in 1984.

Supplemental to his careers at NASA and RPI, GML was involved in numerous professional activities. These included active membership in higher education organizations, industrial boards and advisory committees, and a variety of committees and organizations focussing on engineering and technology issues. Through his work with these national, state and local organizations and committees, he dealt with such issues as industrial competitiveness, productivity, technology policy, scientific communication and national security, and postsecondary school education. GML influenced local industry directly in such roles as General Electric Co. Board member, and advisor to Mechanical Technology, Inc. On the state level, he participated in education and public policy groups, including the Association of Colleges and Universities of the State of New York (ACUSNY), the New York State Education Commissioner's Advisory Council on Postsecondary Education, and the New York Council on State Priorities. Among GML's more visible national activities was his chairmanship of the National Research Council's committee to examine the operation and maintenance procedures of the Federal Aviation Administration following the 1979 DC-10 crash in Chicago. GML also served as the first chairman of the influential Committee on Science, Engineering and Public Policy (COSEPUP), established by the National Academies of Science and Engineering.
GML speaks at his inauguration as RPI's 14th president, 1976. (RPI Archives photograph files)

GML breaks ground for the Rensselaer Technology Park in North Greenbush, 1981. (Low Papers, Box 148 Folder 6)

GML serves doughnuts to students in the hockey line. (Courtesy of Mrs. Mary R. Low)

The Low family at GML's inauguration: (L to R) Mary R. Low, Mrs. Gertrude Low, and the Low children, David, Diane, Mark, Nancy and John. (RPI Archives photograph files)

(L to R) Frank Rhodes, GML, John Welch Jr., Gov. Hugh Carey, John Opel and Walter Fallon at the CII convocation, 1982. (Low Papers, Box 148 Folder 6)
GML received numerous honorary degrees and awards for his leadership of, and contributions to, the space program, local and national government, and RPI. Among his honorary degrees was a doctorate in engineering from RPI (1969). Honors and awards included numerous NASA awards, such as three Distinguished Service Medals (1969, 1981), as well as the Arthur S. Fleming Award (Ten Outstanding Young Men in Government) (1963), the National Space Club’s Goddard Memorial Trophy (1973), the Rockefeller Public Service Award (1974), the National Academy of Engineering Founders Medal (1978), and the Austrian Cross of Honor for Science and Art (1980). In 1984, GML received posthumously both the National Science Foundation’s National Medal of Science, and the National Medal of Freedom.

George M. Low died on 17 July 1984 at the age of 58, after a determined fight with cancer.
Diving off Grand Cayman Island, ca. 1981. (Courtesy of Mark S. Low)


Sailing near Antigua, 1973. (RPI Archives photograph files)

Restoring a car. (Courtesy of Mrs. Mary R. Low)
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1926</td>
<td>Georg Wilhelm Low is born near Vienna, Austria</td>
</tr>
<tr>
<td>1940</td>
<td>the Low family emigrates to the U.S.</td>
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<tr>
<td>1943</td>
<td>GML enters RPI</td>
</tr>
<tr>
<td>1944-46</td>
<td>serves in the U.S. Army</td>
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<tr>
<td>1945</td>
<td>becomes a naturalized American citizen, and changes his name to George Michael Low</td>
</tr>
<tr>
<td>1948</td>
<td>receives a Bachelor of Aeronautical Engineering degree from RPI; works at General Dynamics in Fort Worth, TX; returns to RPI</td>
</tr>
<tr>
<td>1949</td>
<td>marries Mary Ruth McNamara; joins NACA as an Aeronautical Research Scientist at the Lewis Flight Propulsion Laboratory</td>
</tr>
<tr>
<td>1950</td>
<td>receives a Master of Science degree in Aeronautical Engineering from RPI</td>
</tr>
<tr>
<td>1954</td>
<td>becomes Head of the Fluid Mechanics Section at the Lewis Laboratory</td>
</tr>
<tr>
<td>1956</td>
<td>becomes Chief of the Special Projects Branch at Lewis</td>
</tr>
<tr>
<td>1958</td>
<td>NASA is established; GML becomes Chief of Manned Space Flight at agency headquarters in Washington, DC</td>
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<tr>
<td>1959</td>
<td>participates in the Goett Committee</td>
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<tr>
<td>1960</td>
<td>chairs a select committee performing original studies for a manned lunar landing</td>
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<tr>
<td>1961</td>
<td>Pres. Kennedy announces the goal of a manned lunar landing; GML becomes Assistant Director for Manned Space Flight Programs; later is named Director of Spacecraft and Flight Missions</td>
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<tr>
<td>1963</td>
<td>becomes Deputy Director of the Office of Manned Space Flight; later becomes Deputy Associate Administrator for Manned Space Flight</td>
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<tr>
<td>1964</td>
<td>transfers to the Manned Spacecraft Center, Houston, TX, as the Center's Deputy Director</td>
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<tr>
<td>1967</td>
<td>the Apollo 204 fire kills astronauts Grissom, White and Chaffee; GML is named Manager of the Apollo Spacecraft Program Office</td>
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<tr>
<td>1968</td>
<td>Apollo 8 is flown, the first manned circumlunar mission</td>
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</tbody>
</table>
1969 the Apollo 11 flight places a man on the moon; GML is appointed Deputy Administrator of NASA

1970-71 serves as Acting Administrator of NASA

1971 negotiates a space agreement with the U.S.S.R.; becomes a member of the RPI Board of Trustees

1975 the Apollo-Soyuz mission is flown

1976 GML becomes the 14th President of RPI

1977 the Rensselaer 2000 concept is developed

1978 RPI's Center for Interactive Computer Graphics is established

1979 RPI's Center for Manufacturing Productivity and Technology Transfer is established

1980 GML serves as chairman of the Committee on FAA Airworthiness Certification Procedures, and leader of President-elect Reagan's NASA Transition Team

1981 RPI's Incubator Program and Center for Integrated Electronics are established; groundbreaking is held for the Rensselaer Technology Park; GML becomes chairman of the Committee on Science, Engineering and Public Policy

1982 RPI is chosen as the site of the Center for Industrial Innovation

1984 George Michael Low dies at the age of 58
## Select Flight Chronology

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<th>Month</th>
<th>Flight</th>
<th>Astronauts</th>
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<td>May</td>
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<td>Shepard</td>
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<td></td>
<td>Jly</td>
<td>Mercury 4</td>
<td>Grissom</td>
</tr>
<tr>
<td>1962</td>
<td>Feb</td>
<td>Mercury 5</td>
<td>Glenn</td>
</tr>
<tr>
<td></td>
<td>May</td>
<td>Mercury 6</td>
<td>Carpenter</td>
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<tr>
<td></td>
<td>Oct</td>
<td>Mercury 7</td>
<td>Schirra</td>
</tr>
<tr>
<td>1963</td>
<td>Jun</td>
<td>Mercury 8</td>
<td>Schirra</td>
</tr>
<tr>
<td>1965</td>
<td>Mch</td>
<td>Gemini III</td>
<td>Grissom and Young</td>
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<td>Jun</td>
<td>Gemini IV</td>
<td>McDivitt and White</td>
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<td>Aug</td>
<td>Gemini V</td>
<td>Cooper and Conrad</td>
</tr>
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<td></td>
<td>Dec</td>
<td>Gemini VII</td>
<td>Borman and Lovell</td>
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<tr>
<td></td>
<td>Dec</td>
<td>Gemini VI-A</td>
<td>Schirra and Stafford</td>
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<tr>
<td>1966</td>
<td>Feb</td>
<td>Apollo-Saturn 201</td>
<td>Unmanned</td>
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<tr>
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<td>Mch</td>
<td>Gemini VIII</td>
<td>Armstrong and Scott</td>
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<td>Jun</td>
<td>Gemini IX-A</td>
<td>Stafford and Cernan</td>
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<td>Jly</td>
<td>Apollo-Saturn 203</td>
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<tr>
<td></td>
<td>Jly</td>
<td>Gemini X</td>
<td>Young and Collins</td>
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<td>1968</td>
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<td>1969</td>
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<td>Nov</td>
<td>Apollo 12</td>
<td>Conrad, Gordon and Bean</td>
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<tr>
<td>1970</td>
<td>Apr</td>
<td>Apollo 13</td>
<td>Lovell, Haise and Swigert</td>
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<tr>
<td>1971</td>
<td>Jan</td>
<td>Apollo 14</td>
<td>Shepard, Mitchell and Roosa</td>
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<td></td>
<td>Jly</td>
<td>Apollo 15</td>
<td>Scott, Worden and Irwin</td>
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<tr>
<td>1972</td>
<td>Apr</td>
<td>Apollo 16</td>
<td>Young, Mattingly and Duke</td>
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<tr>
<td></td>
<td>Dec</td>
<td>Apollo 17</td>
<td>Cernan, Evans and Schmitt</td>
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<tr>
<td>1973</td>
<td>May</td>
<td>Skylab 1</td>
<td>Conrad, Kerwin and Weitz</td>
</tr>
<tr>
<td>Year</td>
<td>Dates</td>
<td>Mission Details</td>
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<tr>
<td>1973</td>
<td>July 28-Sept. 25</td>
<td>Skylab 3, with astronauts Bean, Garriott and Lousma</td>
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<tr>
<td></td>
<td>Nov. 16-Feb. 8, 1974</td>
<td>Skylab 4, with astronauts Carr, Pogue and Gibson</td>
<td></td>
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<tr>
<td>1975</td>
<td>July 15-24</td>
<td>Apollo-Soyuz Test Project, with astronauts Stafford, Brand and Slayton, and Soyuz 19 cosmonauts Leonov and Kubasov</td>
<td></td>
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<tr>
<td>1981</td>
<td>April 12-14</td>
<td>Space Shuttle Columbia, with astronauts Young and Crippen</td>
<td></td>
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<tr>
<td></td>
<td>November 12-14</td>
<td>Space Shuttle Columbia, with astronauts Engle and Truly</td>
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<tr>
<td>1982</td>
<td>March 22-30</td>
<td>Space Shuttle Columbia, with astronauts Lousma and Fullerton</td>
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<td></td>
<td>June 27-July 4</td>
<td>Space Shuttle Columbia, with astronauts Mattingly and Hartsfield</td>
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<td></td>
<td>November 11-16</td>
<td>Space Shuttle Columbia, with astronauts Brand, Overmyer, Lenoir and Allen</td>
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<tr>
<td>1983</td>
<td>April 4-9</td>
<td>Space Shuttle Challenger, with astronauts Weitz, Bobko, Musgrave and Peterson</td>
<td></td>
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<tr>
<td></td>
<td>June 18-24</td>
<td>Space Shuttle Challenger, with astronauts Ride, Crippen, Thagard, Fabian and Hauck</td>
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<tr>
<td></td>
<td>August 30-September 5</td>
<td>Space Shuttle Challenger, with astronauts Bluford, Truly, Brandenstein, Gardner and Thornton</td>
<td></td>
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<tr>
<td></td>
<td>November 29-December 8</td>
<td>Space Shuttle Columbia, with astronauts Young, Garriott, Parker, and Shaw, and Drs. Lichtenberg and Merbold</td>
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Scope and Content Note

The GEORGE M. LOW (1926-1984) PAPERS, 1930-1984, are composed of manuscripts, books and artifacts documenting the personal and professional activities of George M. Low (1926-1984) (GML), an influential aeronautics and aerospace engineer, federal agency manager, and university president. The collection briefly documents GML's education at RPI and his early professional experience at NACA's Lewis Flight Propulsion Laboratory. Although GML's work at NASA in the 1950's and early 1960's is not significantly documented here, the collection reflects in detail three of his later positions at the agency. These prove to be key positions in relation to the development and fulfillment of NASA's objectives, and the George M. Low Papers provide fascinating glimpses into the inner workings of the agency at a time of enormous productivity and change. The collection also contains personal papers from GML's creative tenure as RPI's 14th President. The Papers are divided into eight series: PERSONAL AND BIOGRAPHICAL PAPERS (1.5 cubic feet), RPI STUDENT PAPERS (1.2 cubic feet), LEWIS FLIGHT PROPULSION LABORATORY PAPERS (2.75 cubic feet), NASA PAPERS (64.5 cubic feet), LATER NASA PAPERS (2.75 cubic feet), PERSONAL RPI PRESIDENTIAL PAPERS (2.75 cubic feet), LIBRARY (11 cubic feet), and ARTIFACTS (20.4 cubic feet).

Series I, PERSONAL AND BIOGRAPHICAL PAPERS (Boxes 1-3)

PERSONAL AND BIOGRAPHICAL PAPERS, 1930-1984, contain biographical materials collected by the RPI Archives and GML, and a small array of personal papers. The personal materials, which provide brief glimpses of GML's homelife, friendships and extra-career interests, include correspondence files, and miscellaneous papers. Correspondence files contain letters from friends and colleagues, including individuals who knew the Low family in Austria. Among the alphabetically arranged miscellaneous materials are files pertaining to GML's hobbies, such as scuba diving and running, and correspondence and notes regarding his job search in 1975-1976. Additional correspondence relating to GML's job search may be found in the NASA Sensitive Chronological File and Personal Notes.
Series II, RPI STUDENT PAPERS (Boxes 4-7)

RPI STUDENT PAPERS are divided into chronologically arranged course files, theses, and miscellaneous papers which reflect GML's undergraduate and graduate education at RPI, 1943-1950. The course files, which represent only a portion of GML's academic schedule, contain class notes, laboratories, exams, etc. from aeronautics and mathematics classes. This series also contains both GML's bachelor's and master's theses, as well as such miscellaneous material as a Delta Phi fraternity group photograph. Annotated books from GML's student years are located in Series VII LIBRARY.

One of the drawings illustrating GML's project report for RPI's Applied Aircraft Design course, 1947. (Low Papers, Drawer C Folder 1)
Series III, LEWIS FLIGHT PROPULSION LABORATORY PAPERS (Boxes 7-12)

LEWIS FLIGHT PROPULSION LABORATORY PAPERS, 1950-1959, briefly document GML's productive work at the NACA laboratory. The Papers are divided into GML's publications and reports, files from courses taught and attended, and miscellaneous notes and collected materials. In addition to a complete collection of his NACA Technical Notes, the chronologically arranged publications and reports include papers regarding GML's investigations into early space technology problems, and planning reports for NASA facilities. Course files have been divided into courses taught and courses attended, each section being organized chronologically. Of interest among these lecture synopses and notes are a series of 30 lectures on space technology by the top scientists and engineers of 1958. Later lectures on space technology are included in NASA Miscellaneous Papers. The Lewis Miscellaneous Papers are divided into notes relating to GML's work in aerospace and aeronautics, collected papers documenting early space technology developments, and miscellaneous papers. Personnel information pertaining to GML's NACA years is located in NASA Administrative and General Apollo Files.

An illustration of early manned spaceflight included in GML's NACA paper "A Look Ahead at Selected Problems of Space Flight," 1958. (Low Papers, Box 7 Folder 10)
Series IV, NASA PAPERS (Boxes 13-138)

NASA PAPERS, 1946-1982, are divided into eleven subseries: A. Correspondence and Memoranda; B. Notes, including handwritten notes and the transcript of GML's dictated diary; C. Subject Files, containing both administrative and flight files; D. Meeting Records; E. Calendars; F. Travel Vouchers; G. Tours and Trips; H. Speeches, Statements and Publications; I. Awards, Honors and Ceremonies; J. Collected Materials, including GML's file of the day and photograph files; and K. Miscellaneous Papers. Although the NASA PAPERS focus on GML's positions as Deputy Director of the Manned Spacecraft Center (1964-1967), Manager of the Apollo Spacecraft Program Office (ASPO) (1967-1969), and Deputy Administrator of NASA (1969-1976), some small amount of documentation is available for his early years at NASA Headquarters. This documentation includes several subject files, travel vouchers, speeches, awards, collected materials (scrapbooks and photograph files), and miscellaneous files. A portion of the correspondence and subject files of this early period have also been retained by the Federal Records Center in Suitland, MD (see Appendix E).

NASA Correspondence and Memoranda

Subseries A, NASA Correspondence and Memoranda (Boxes 13-60), has been arranged by type of correspondence: Chronological File, Sensitive Chronological File, Note File, Apollo Memoranda, Citizens' Correspondence, and Miscellaneous Correspondence. These different kinds of correspondence illustrate the types of information which GML handled and communicated. The Chronological File provides a continuous collection of fairly routine outgoing correspondence from 1964 to 1976. During the Deputy Administrator period, Chronological File correspondents include the NASA Administrator, Headquarters' staff and Center Directors, members of Congress, other governmental agencies, the national and international scientific community, industrial leaders, etc. Correspondence topics focus on the general management of the agency, including: recruitment and staff reductions, the development and management of myriad projects and programs in the areas of manned flight, satellite systems, and advanced aeronautics technology, budget formulation and use, agency goals, objectives and reorganization,
and interagency and international cooperation. The NASA Sensitive Chronological File and the Note File augment the Chronological File of this period. The Chronological File of the Apollo Spacecraft Program Office Manager contains many more enclosures, such as background correspondence, reports, test results, graphs, briefing charts, meeting notes and minutes. During this period, correspondents include Program Office engineers and scientists, contractors, the NASA Headquarters' Apollo Program Office, the Manned Spacecraft Center director's office, and other NASA centers. These files reflect GML's management of the design, manufacture and testing of spacecraft hardware and systems, and include documentation of such activities as: coordination of changes and procedures, direction of anomaly studies, development and management of Manned Spacecraft Center/contractor relations, coordination of reviews at other sites (principally the Kennedy Space Center and Marshall Space Flight Center), and the forwarding of information to NASA Headquarters. Also included are broader agency and center concerns, such as advanced lunar missions and lunar exploration, the Lunar Receiving Laboratory, and the Manned Spacecraft Center's institutional plan. Supplementing the Chronological File of this period are the NASA Sensitive Chronological File and Apollo Memoranda. The Chronological File of the Deputy Director period appears to have been culled from a larger body of material judging from the small amount of correspondence in this File. Correspondence is primarily with NASA Headquarters and Manned Spacecraft Center offices, and documents such varied concerns as: recruitment and personnel, procurement, contractor management, selection and training of astronauts, management of spacecraft testing, press relations, the transfer of programs to the Manned Spacecraft Center and the Center's role within the agency, the planning and development of such projects as the Lunar Receiving Laboratory, space science experiments, and the Apollo Applications Program, and post-Apollo 204 inspection and review activities. Also included are letters to George Mueller which GML authored for Robert Gilruth.

The Sensitive Chronological File consists primarily of correspondence and memoranda sent, and memoranda for the record, 1967-1976. Matters recorded in this File were considered more sensitive at the
time of their discussion. During the Deputy Administrator period, correspondents include the NASA Administrator, Associate and Assistant Administrators, Center Directors, members of Congress, and the Office of Management and Budget. The File provides reviews of current projects and events which GML drew up for the Administrator, records of internal and external meetings and telephone calls, and descriptions of ongoing efforts and strategies in such areas as: recruitment and reorganization, program and project management (including budget, configuration, procurement plans, contractor selection, and anomalies), contractor management, Congressional relations, and interagency and international cooperation. GML's 1975-1976 job search is also documented in the Sensitive Chronological File of this period. During the Apollo Spacecraft Program Office and transition periods, correspondents include Robert Gilruth, Gen. Samuel Phillips, industrial leaders, and Program Office staff. Correspondence topics include studies of flight, manufacture and hardware anomalies, advanced Apollo missions, the organization, budget, personnel, and inter-center relations of the Manned Spacecraft Center, and agency-wide planning.

The Note File, 1970-1976, contains GML's frank and insightful handwritten notes on incoming correspondence, reports, drafts, etc. which he received from NASA staff, federal agencies, members of Congress, industry, and scientists. GML's comments or queries on these materials were routed primarily to Assistant and Associate Administrators. The File reflects GML's direction and coordination of NASA Headquarters' ongoing efforts in such areas as: management, personnel, external relations, etc.

The bulk of the Apollo Memoranda, 1967-1969, is composed of a complete set of GML's Apollo Notes for Dr. Gilruth. These Notes, providing a nearly daily record of GML's activities and concerns during his management of the Apollo Spacecraft Program Office, functioned as a direct communication channel to the Manned Spacecraft Center's director, Robert Gilruth. The memoranda and their enclosures discuss contractor negotiations, schedule status, budgetary concerns, Manned Spacecraft Center/Kennedy Space Center relations, and ongoing planning. Also included are descriptions of Configuration Control Board
meetings, and discussions and meetings with contractors and others regarding changes in the development, manufacture and testing of hardware, systems and spacecraft. In addition, the Notes record the opinions of GML and others regarding individuals, programs and organizations.

The Citizens’ Correspondence no doubt represents only a portion of the many letters of this type which GML received while at NASA. Arranged alphabetically, it contains a variety of internationally-authored letters, with GML’s responses, reflecting popular opinions of NASA’s programs.

Miscellaneous Correspondence contains files of correspondence with specific individuals, Cleared Apollo Action Notes, etc. Of interest are the memoranda between GML and NASA Administrator James C. Fletcher, which document the exceptional working relationship of these individuals, and the numerous historical NASA personnel interview transcripts contained in the Robert Sherrod files.

NASA Notes

Subseries B, NASA Notes (Boxes 60-70), is divided into a series of looseleaf notes and notebooks, 1967-1976, and GML’s “Personal Notes,” transcribed from the diary entries which he dictated from 1970 to 1976. The nearly complete chronological run of notes and notebooks, with various subject notebooks appended, records GML’s attendance at meetings with groups and individuals, provides outlines of his remarks, and reflects his preliminary ideas and strategies for dealing with current problems and issues. Notes from the Deputy Administrator period focus on meetings with the NASA Administrator, Headquarters staff and Center Directors, astronauts, members of Congress, the President and White House staff, governmental agencies, etc. Included are General Management Reviews, Program Reviews and Source Evaluation Boards. The Notes discuss such topics as planning and management of the agency, its centers, facilities, and programs, and activities and strategies for negotiating with Congress, the White House, other agencies, etc. During the Apollo Manager period, the Notes revolve around meetings with Manned Spacecraft Center senior and general staff,
"Men will fly in space and we'd best be part of it!" GML's notes for the meeting with President Nixon to discuss the future of the Space Shuttle, 1972. (Low Papers, Box 62 Folder 2)

Headquarters Apollo Program Office personnel, astronaut crews, and contractors. Included are Program Reviews, Flight Readiness Reviews, Configuration Control Boards, Design Certification Reviews, and flight debriefings. While the Notes focus on the status of Apollo Spacecraft Program Office concerns (including schedules, weights, budgets, and anomalies), they include discussions of lunar surface operations, the Lunar Receiving Laboratory, and mission and center planning.
The complete set of chronologically arranged **Personal Notes** presents GML's frank view of his activities as NASA Deputy Administrator. Appended to each set of Notes are enclosures, such as correspondence, memoranda and meeting notes, which serve to amplify topics discussed in the Notes or to document unmentioned events. The Notes describe the varied issues and aspects of NASA organization, management, and program implementation, including such ongoing activities as: development of Congressional and international relations, definition of the Space Shuttle, negotiation of NASA's budget, and agency reorganization and long range planning. In addition, the Notes provide, in part, the thought process behind GML's decisions and actions, as well as his impressions of individuals, organizations, programs and events.

**NASA Subject Files**

Subseries C, NASA Subject Files (Boxes 71-96), is divided into Administrative and General Apollo Files, and Specific Flight Files, 1946-1982. Although these files focus on GML's three later positions with NASA, they contain a small amount of documentation of GML's years at NACA, his early positions at NASA Headquarters, and post-1976 consultation with the agency. The **Administrative and General Files**, arranged alphabetically, include: files of a biographical nature, such as GML's appointments, personnel information, and resignation; materials relating to management activities, including executive recruitment and

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*One of GML's charts and graphs analyzing the cost-benefit relationships offered by various Space Shuttle configurations, 1971.*

*(Low Papers, Box 79 Folder 1)*
NASA organization; and files documenting specific issues of the Apollo program, such as fracture mechanics, Lunar Module vibration testing, and land landing. Of special note is a 1965 essay by GML stating his concern about the organization and some of the individuals involved in Mission Operations (Box 75 Folder 4). **Specific Flight Files**, organized chronologically by mission, contain a variety of reports, reviews, photographs and small subject files regarding flights from Gemini III to the Space Shuttle. Files of missions flown previous to Apollo 11 generally contain less material than more contemporary flights. Of special interest are materials documenting the development of the Space Shuttle, and GML's Apollo 8 "Special Notes" describing the decisions and timetable behind the circumlunar flight. Additional materials relating to specific flights are included in NASA Notes and Notebooks, Tours and Trips, and Collected Materials. A number of GML's subject files have also been retained by the NASA History Office in Washington, DC (see Appendix E).

**NASA Meeting Records**

Subseries D, NASA Meeting Records (Boxes 97-110), 1968-1976, is divided into Apollo Reviews and Meeting Records, each arranged chronologically. The **Apollo Reviews**, containing a number of contractor reports, document only a small portion of the reviews which GML attended as Apollo Spacecraft Program Office Manager. The **Meeting Records** contain accounts of meetings which occurred primarily among NASA Headquarters staff during GML's appointment as Deputy Administrator. The files provide a sense of the decision-making and action-assigning network which operated at agency Headquarters. Appended to the Meeting Records is a miscellaneous "Think Group" file, documenting the 1971 meetings of key Headquarters staff which focussed primarily on NASA objectives. Notes supplementing these and other meetings and reviews, are located in NASA Notes and Notebooks.

**NASA Calendars**

Subseries E, NASA Calendars (Boxes 110-113), provides fairly routine coverage of GML's activities through a nearly complete run of monthly and/or yearly volumes, 1964-1976. Although the calendars were kept
primarily by GML's secretaries, they include annotations and notes by GML. The series of monthly calendars for 1966, while incomplete, contains notes from GML's tour of Latin America.

NASA Travel Vouchers

Subseries F, NASA Travel Vouchers (Boxes 113-115), contains generally routine chronologically arranged travel papers, 1963-1976. Included periodically are a small number of itineraries, correspondence, and agendas and notes from meetings with NASA centers and contractors. This subseries contains no papers for the first half of 1966.

NASA Tours and Trips

Subseries G, NASA Tours and Trips (Boxes 116-122), arranged in chronological order by date of trip, documents GML's international travels on NASA business from 1966 to 1975. Included are GML's 1966 tour of Latin America with astronauts Neil Armstrong and Richard Gordon; a number of trips to the Soviet Union to develop the diplomatic
and technological cooperation necessary for the 1975 Apollo-Soyuz Test Project (ASTP) flight; and trips to Africa and the Yucatan Peninsula to inspect NASA's cooperative satellite projects with the GARP Atlantic Tropical Experiment (GATE) and Jacques Cousteau's ship Calypso. Trip materials generally include GML's informative trip report and trip notes, which describe his activities as well as his impressions of countries and individuals.

NASA Speeches, Statements and Publications

Subseries H, NASA Speeches, Statements and Publications (Boxes 122-128), 1959-1976, is divided into three chronologically arranged sections: Statements Before Congressional Committees; Presentations, Speeches and Statements; and Publications and Miscellaneous Reports. Statements which GML, as Deputy Administrator, made before Senate and House committees revolve primarily around the NASA budget, space technology and applications, and specific NASA projects. Presentation and speech files contain GML's remarks at various dedications, conferences, seminars and meetings from 1959 to 1976. Appended to these files are small collections of press statements, and interviews which GML made 1967-1971. Publication files include materials relating to GML's authorship of articles and his chapter for the NASA publication, Apollo Expeditions to the Moon (1975).

NASA Awards, Honors and Ceremonies

Subseries I, NASA Awards, Honors and Ceremonies (Boxes 128-130), 1958-1977, contains chronologically arranged files documenting the awards and honorary degrees which GML received for his contributions to the Apollo program, aeronautics and astronautics, and government service. Also included are files for such ceremonies as an Apollo 11 post-mission dinner, and GML's NASA retirement party and portrait unveiling. NASA Collected Materials contain additional papers pertaining to awards, honors and events. Series VIII ARTIFACTS includes GML's Outstanding Leadership medal, and one of his Distinguished Service medals.

GML receives the Rockefeller Public Service Award from President Ford, 1974. (Low Papers, Box 129 Folder 1)
NASA Collected Materials

Subseries J, NASA Collected Materials (Boxes 130-138), 1959-1976, is divided into the chronologically arranged File of the Day, Scrapbooks, and Photograph Albums and Files. **File of the Day**, documenting GML's tenure as Deputy Administrator, is a continuation of the earlier **Scrapbooks** which cover the years 1959-1969. Both contain a variety of material collected by or sent to GML, such as photographs, programs, invitations, agendas, clippings, and miscellaneous correspondence. These files reflect GML's attendance at awards, dinners, conferences and other events, moments in his career at NASA, and the visits of numerous dignitaries to NASA facilities. While the **Photograph Files** contain further shots of these events, they also include series of photographs taken of Apollo hardware and testing results. Specific images in these files, and throughout the collection, may be located by using Appendix B. Photograph Index. This listing provides box and folder locations for images of individuals, events, and objects.

*An autographed portrait inscribed by the Apollo 10 astronauts: "To George - our most sincere best wishes and personal thanks for making Apollo X possible."* (Low Papers, Box 133 Folder 6)
NASA Miscellaneous Papers

Subseries K, NASA Miscellaneous Papers (Box 138), 1958-1972, presents courses attended, early Apollo reports, etc.

Series V, LATER NASA PAPERS (Boxes 138-143)

LATER NASA PAPERS, 1976-1984, document GML's NASA consultation activities, and his continued general interest in agency management and programs. The Papers are divided into Correspondence, Reagan Transition Team Papers, and Miscellaneous Papers. The chronologically arranged Correspondence contains GML's comments on NASA reports and publications, collected materials sent and received, letters written on behalf of RPI students or alumni, and routine thank you's, congratulations, etc. In addition, correspondence files contain letters and meeting notes regarding efforts to define NASA's mission and future goals. The Transition Team Papers, comprised of reports and drafts, correspondence, background material, and miscellaneous files, reflect the Team's effort to assess NASA's problems, strengths and potentials for President-elect Reagan in 1980. Miscellaneous Papers contain a variety of alphabetically arranged subject files. Included are meeting files for Space Shuttle reviews and institutional assessment meetings which GML attended from 1977 to 1978. Additional materials relating to GML's continued NASA involvement may be found in NASA Subject Files, and Personal RPI Presidential Speech Files.

Series VI, PERSONAL RPI PRESIDENTIAL PAPERS (Boxes 143-148)

PERSONAL RPI PRESIDENTIAL PAPERS, 1976-1984, contain the more personal materials created by GML during his presidency of RPI. The Papers are divided into Correspondence, Calendars, Speeches and Statements, Awards and Honors, and Miscellaneous Papers. Correspondence contains primarily congratulatory letters received upon GML's acceptance of the Institute presidency. Additional RPI-related correspondence may also be found in Personal Correspondence, and NASA Chronological and Sensitive Chronological Files. Calendars
provide routine coverage of GML's activities for the years 1979-1983. Although kept by GML's secretaries, the calendars provide a small number of annotations made by GML. Calendar entries for 1976 may be found in the NASA calendar of that year. **Speeches and Statements** provide a chronological file of the speeches, lectures, remarks, etc. which GML made before the RPI community, and local and national institutions and organizations before 1982. Following these files is a small collection of press statements regarding RPI and technology issues. **Awards and Honors** contain honorary degrees and awards, filed chronologically. The alphabetically arranged **Miscellaneous Papers** present a variety of subject files, including courses attended and photographs. Additional personal presidential files of GML have, in accordance with Institute policy, been closed to researchers. These materials are not listed or described in this Guide.

**Series VII, LIBRARY (Boxes 152-164 and shelved volumes)**

The LIBRARY comprises works selected from the many volumes collected by GML during his student years at RPI, his career at NACA and NASA, and his presidency of the Institute. (Listings of volumes separated from the collection are located in Appendix D.) This series is
divided into Annotated Volumes, and Publications and Reports. Within each section, materials are listed alphabetically by author, or by title when the author could not be identified. Of interest among the Annotated Volumes are a number a books which GML used during his RPI student years. Publications and Reports include works which it was judged would be difficult for the researcher to obtain: Soviet publications, NASA contractor reports, pre-publication drafts, etc.

Series VIII, ARTIFACTS (Boxes 165-172)

ARTIFACTS contain a variety of objects reflecting GML's careers at NASA and RPI. Items are organized into Models, Spacecraft Hardware, and Mementos. Models and Hardware were collected, investigated and used in presentations while GML was at NASA. Mementos include medallions, patches, paperweights, plaques, framed items, etc. which GML collected or received while at NASA and RPI.
Series I, PERSONAL AND BIOGRAPHICAL PAPERS, 1930-1984

Boxes 1-3

A. Biographical Materials
B. Correspondence
C. Miscellaneous Papers

A. Biographical Materials

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<th>Box</th>
<th>Folder</th>
<th>Description</th>
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<td>1</td>
<td>1</td>
<td>Biographical Data From RPI Archives Drop File, 1976-1982 biographies, publication list, speech reprints, pamphlets, programs and clippings regarding GML's work at NASA and RPI, includes a letter from Robert Gilruth regarding GML (1979) and GML's 1983 Japan Technical Study Tour report</td>
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<td>2</td>
<td></td>
<td>Biographical Sketches, 1961-1984 some annotated by GML</td>
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<tr>
<td>4</td>
<td></td>
<td>Collected Clippings, 1943-1984 documents GML's activities at NASA and RPI, awards he received, committees on which he served, his marriage, family, and friends</td>
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</tbody>
</table>
I. Personal and Biographical Papers

1. World Book Science Service Article, 1968
   copies of William Barry Furlong's "Assignment: Fix the Apollo," includes a copy annotated by GML

2. World Book Science Service Article, Photographs
   includes photographs of GML with his family, working at NASA, and jogging

B. Correspondence

2. Personal Correspondence, 1961-1978
   congratulations, thank you's, invitations, nominations, letters of recommendation, etc. to and from family, friends, NASA colleagues, members of the RPI community, and state and local offices

3. Sensitive Personal Correspondence, 1979
   regarding financial matters

4. Get Well Cards, Feb.-July 1974

5. Get Well Cards, Nov.-Dec. 1975
   received from colleagues at NASA and RPI, and from the committees on which GML served

6. Correspondence With RPI Archives, 1983-1984
   regarding storage and donation of GML's personal papers

C. Miscellaneous Papers

7. Drivers License and Registration, 1964-1973
   primarily Texas and Virginia driving tests

8. Evelyn Wood Reading Course, 1961
   course materials, GML class notes and exercises

   correspondence and notes regarding offers from institutions, committees and boards

   correspondence and notes from GML's discussions with friends,
### I. Personal and Biographical Papers

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<tr>
<th>No.</th>
<th>Description</th>
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<tr>
<td>3</td>
<td>Job Search, Garrett Corp., 1976</td>
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<tr>
<td></td>
<td>correspondence, notes and collected materials regarding job options at the Corp., also includes notes listing the pros and cons of RPI and Garrett positions</td>
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<tr>
<td>5</td>
<td>Passports, 1966-1982</td>
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<tr>
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<td>applications and passports</td>
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<tr>
<td>6</td>
<td>Photograph, ca. 1930</td>
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<td></td>
<td>GML as a child, taken in Austria</td>
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<tr>
<td>7</td>
<td>RPI Automobiles, 1976-1984</td>
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<td>correspondence and financial materials regarding insurance, parking, maintenance and accidents</td>
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<td>8</td>
<td>Rensselaer Sports Car Association, 1981-1982</td>
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<td>correspondence regarding dues and meetings</td>
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<tr>
<td>9</td>
<td>Running and Exercise, 1981-1984</td>
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<td></td>
<td>walking and biking log, and correspondence regarding running races</td>
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<tr>
<td>10</td>
<td>Scuba Diving Course, 1970</td>
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<td></td>
<td>class notes</td>
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<tr>
<td>11</td>
<td>Travel, Miscellaneous, 1973-1984</td>
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<td>correspondence and miscellaneous papers regarding vacations and travel discounts</td>
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<td></td>
<td>collected clippings, materials regarding voting, etc.</td>
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</table>
Series II, RPI STUDENT PAPERS, 1943-1950

Boxes 4-7

A. Courses Attended
B. Theses
C. Miscellaneous Papers

Oversize drawings and an oversize photograph are located in Archives map case drawer C.

A. Courses Attended
files generally contain class notes, homework problems, and quizzes or exams; often they will include mimeographed text handouts

<table>
<thead>
<tr>
<th>Box</th>
<th>Folder</th>
<th>Course and Term</th>
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<td>4</td>
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<td>Airplane Stability, Spring 1949</td>
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<td>Applied Math II, Spring 1949</td>
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<td>Differential Equations, Spring 1949</td>
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<td>Mechanics of Compressible Fluids, Spring 1949</td>
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includes GML's seminar paper "Two Distinct Solutions of the Wave Equation as Applied to Three-Dimensional Supersonic Airfoil Problems," and the papers of four other class members

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<td>Advanced Aerodynamics, Fall 1948</td>
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<td>Advanced Calculus, Fall 1948</td>
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II. RPI Student Papers

5 1  Applied Math I, Fall 1948
2  Mechanics of Compressible Fluids, Fall 1948
3  Aircraft Structures, Fall 1947
4  Applied Aircraft Design, Fall 1947
   includes an outline and draft of GML's project report
Dr.C 1  5 oversize drawings for the report
5 5  Vibrations, Fall 1947
6  Vibrations Laboratory, Fall 1947
   contains six lab reports, two include instructions
7  Heat Engineering II, Summer 1947
8  Heat Engineering II Laboratory, Summer 1947
   contains four lab reports; the first is identical in subject matter to
   Heat Engineering Laboratory, Fall 1944

6 1  Aeronautics III, Spring 1947
2  Aircraft Engines, Spring 1947
   includes six lab reports
Dr.C 1  1 oversize drawing
6 3  Aircraft Stress Analysis, Spring 1947
4  Aircraft Stress Analysis Laboratory, Spring 1947
   contains six lab reports
5  Wind Tunnel Laboratory, Spring 1947
   contains nine lab reports, eight with instructions; this Laboratory is
   a continuation of the Elementary Aeronautical Laboratory, Summer
   1944
6  Aeronautics II, Fall 1946
7  Fluid Mechanics, Fall 1944
8  Heat Engineering Laboratory, Fall 1944
   contains one lab report; it is identical in subject matter to the first
   lab in the Heat Engineering II Laboratory, Summer 1947
9  Mechanical Engineering Laboratory, Summer 1944
   contains nine lab reports, and instructions for twelve labs
10  Thermodynamics, Summer 1944

7 1  Elementary Aeronautics, Spring 1944
   includes an incomplete text by Dr. Paul E. Hemke (1943)
### II. RPI Student Papers

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<th>Elementary Aeronautical Laboratory, Spring 1944 contains ten lab reports, eight with instructions; this Laboratory continues in the Wind Tunnel Laboratory, Spring 1947</th>
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<td>7 3 Miscellaneous Syllabi, 1943-1944</td>
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<td>4 Miscellaneous Course Notes, n.d.</td>
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#### B. Theses

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<td>5</td>
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<td>Master’s Thesis, Final Work Sheets and Outline</td>
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<td>“Theoretical And Experimental Analysis of Channel Shaped Wing,” Bachelor’s Thesis, Jan. 1948 includes photographs of the channel wing model</td>
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#### C. Miscellaneous Papers

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<th>Papers, 1947-1950 1950 RPI commencement line-up chart, 1947-1948 ROTC class schedule, etc.</th>
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<td>Dr.C 1 Oversize Delta Phi fraternity group photograph, 1947</td>
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</table>
Series III, LEWIS FLIGHT PROPULSION LABORATORY PAPERS, 1950-1959

Boxes 7-12

A. Publications and Reports
B. Courses Taught and Attended
C. Miscellaneous Papers

An oversize report is located in Archives map case drawer C.

A. Publications and Reports
files generally contain a copy of the final report; often included are review copies with annotations

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<td>7</td>
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<td>“Nearly Circular Transfer Trajectories for Descending Satellites,”</td>
<td>1959</td>
<td>Technical Report R-3, includes work notes</td>
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<td></td>
<td>10</td>
<td>“A Look Ahead at Selected Problems of Space Flight,” Mar. 1958</td>
<td></td>
<td>contains a draft of the paper with annotations, includes illustrations</td>
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<td>8</td>
<td>1</td>
<td>“Space Flight Program Sec. II, III, IV,” 1957-58</td>
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<td>contains a report prepared by a select committee of Lewis, Ames and Langley Center staff; includes sections on space flight requirements and proposed facilities; GML's later cover title for the report is “1957-1958 Planning for NASA”</td>
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<td>“Boundary-Layer Transition at Supersonic Speeds,” RM E56E10, Aug. 1956</td>
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<td>3</td>
<td>“Reversal of Skin-Friction &amp; Heat Transfer in High-Speed Laminar Flows,” Oct. 1955</td>
<td>contains a typescript of the paper, and a photocopy as it was printed in the Journal of Aeronautical Sciences, 22.10</td>
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<td>“Stability of Compressible Laminar Boundary Layer with Internal Heat Sources or Sinks,” June 1954</td>
<td>contains a typescript of the paper, a preprint as it was presented at the Institute of Aeronautical Sciences annual summer meeting, June 1954, and a copy as it was printed in the Journal of Aeronautical Sciences, 22.5</td>
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<td>“The Compressible Laminar Boundary Layer with Heat Transfer and Small Pressure Gradient,” TN 3028, Oct. 1953</td>
<td>includes a draft and notes</td>
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<td>“Factors Affecting Laminar Boundary Layer Measurements in a Supersonic Stream,” TN 2891, Feb. 1953</td>
<td>includes a reprint from the Proceedings of the Third Midwestern Conference on Fluid Mechanics, Univ. of Minnesota, 1953</td>
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<td>Dr.C</td>
<td>“Equations, Tables, and Charts for Compressible Flow”, Report 1135, 1953 (oversize)</td>
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</table>
B. Courses Taught and Attended

1. Courses Taught
files generally contain typescript lectures or lecture notes, and homework assignments; class lists and miscellaneous research papers may also be included

8  12  Concepts of Hypersonic Flight, 1957-1958

9  1-2  Complex Variables, [1954]
3  Advanced Engineering Mathematics, Transforms and PDE’s, 1953, 1955
4  Advanced Engineering Mathematics II, 1953
7  Vector Analysis, 1952-1953

10  1  Stability and Transition, 1951

2. Courses Attended
files generally contain typescript synopses of lectures; often included are GML’s class notes, homework problems, and collected articles and papers

2-3  Space Technology, 1958
      thirty lectures given by various scientists and engineers at the University of California Engineering Extension

4-7  Concepts of Hypersonic Flight, 1957-1958
8    [Advanced Physics], 1956-1957

11  1-2  Partial Differential Equations, 1956-1957
3    Concepts of Hypersonic Flight, 1956
     includes GML’s lectures on aerodynamic heating problems
4    Fundamentals of Rocket Propulsion, 1955-1956
5    Heat Transfer, 1955

12  1-3  Seminar on Statistical Studies of Turbulence, 1950
### C. Miscellaneous Papers

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<tr>
<td>12</td>
<td>GML notes: Boundary Layer Equations</td>
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<td>5</td>
<td>‘G’ Force After Aborted Launch</td>
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<td>Mass Flow Charts</td>
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<td>Navier-Stokes Equation</td>
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<td>Miscellaneous Notes for Lectures and Publications, 1958, n.d.</td>
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<td>Collected Reports and Papers: Early Papers on Space Flight, 1958</td>
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<td>papers and memoranda by A.J. Eggers Jr., John C. Evvard and</td>
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<td>James R. Killian</td>
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<td>10</td>
<td>Man in Space Mission, 1958</td>
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<td>memorandum regarding contractor proposals, with GML notes</td>
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<td>11</td>
<td>Orbital Ascent and Reentry, 1958</td>
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<td>notes and graphs of work by John H. Disher</td>
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<td>12</td>
<td>Pressure, Mach Number and Humidity Charts, n.d.</td>
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<td></td>
<td>includes a photograph of GML presenting diagrams of satellite reentry orbits</td>
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Series IV, NASA PAPERS, 1946-1982

Boxes 13-138

A. Correspondence and Memoranda
   1. Chronological File
   2. Sensitive Chronological File
   3. Note File
   4. Apollo Memoranda
   5. Citizens' Correspondence
   6. Miscellaneous Correspondence

B. Notes
   1. Notes and Notebooks
   2. Personal Notes

C. Subject Files
   1. Administrative and General Apollo Files
   2. Specific Flight Files

D. Meeting Records
   1. Apollo Reviews
   2. Meeting Records

E. Calendars

F. Travel Vouchers

G. Tours and Trips

H. Speeches, Statements and Publications
   1. Statements Before Congress
   2. Presentations, Speeches and Statements
   3. Publications and Miscellaneous Reports
I. Awards, Honors and Ceremonies
J. Collected Materials
   1. File of the Day
   2. Scrapbooks
   3. Photograph Albums and Files
K. Miscellaneous Papers

Legalsize and oversize papers and photographs, audio tapes and glass slides are located in boxes 149-151 and Archives map case drawers C and D.

**A. Correspondence and Memoranda**

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IV.A. NASA Correspondence

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7  Chronological File, July 1969

21
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31 1  Chronological File, Sept. 15-Sept. 21, 1967
2  Chronological File, Sept. 8-Sept. 14, 1967
3  Chronological File, Sept. 1-Sept. 7, 1967
4  Chronological File, Aug. 22-Aug. 30, 1967
5  Chronological File, Aug. 1-Aug. 21, 1967
6  Chronological File, July 26-July 31, 1967
7  Chronological File, July 15-July 25, 1967
### IV.A. NASA Correspondence

#### 1. Chronological File

| 32 | 1 | Chronological File, July 8-July 14, 1967 |
| 2  | Chronological File, July 1-July 7, 1967 |
| 3  | Chronological File, June 1967 |
| 4  | Chronological File, May 22-May 31, 1967 |
| 5  | Chronological File, May 12-May 21, 1967 |
| 6  | Chronological File, May 1-May 11, 1967 |
| 7  | Chronological File, Deputy Director, Apr. 1967 |
| 8  | Chronological File, Manager, Apollo Spacecraft Program, Apr. 1967 |

| 33 | 1 | Chronological File, Mar. 21-Mar. 31, 1967 |
| 2  | Chronological File, Mar. 1-Mar. 20, 1967 |
| 3  | Chronological File, Jan.-Feb. 1967 |
| 4  | Chronological File, Aug.-Dec. 1966 |
| 5  | Chronological File, Jan.-July 1966 |
| 6  | Chronological File, Oct.-Dec. 1965 |
| 7  | Chronological File, Jan.-Sept. 1965 |
| 8  | Chronological File, 1964 |

#### 2. Sensitive Chronological File

| 34 | 1 | Sensitive Chronological File, Apr.-May 1976, n.d. |
| 2  | Sensitive Chronological File, Jan.-Mar. 1976 |
| 3  | Sensitive Chronological File, July-Dec. 1975 |
| 4  | Sensitive Chronological File, Jan.-June 1975 |
| 6  | Sensitive Chronological File, July-Sept. 1974 |
| 7  | Sensitive Chronological File, Apr.-June 1974 |
| 8  | Sensitive Chronological File, Jan.-Mar. 1974 |

| 35 | 1 | Sensitive Chronological File, July-Dec. 1973 |
| 2  | Sensitive Chronological File, Jan.-June 1973 |
| 3  | Sensitive Chronological File, July-Dec. 1972 |
| 4  | Sensitive Chronological File, Jan.-June 1972 |
| 5  | Sensitive Chronological File, July-Dec. 1971 |
| 6  | Sensitive Chronological File, Jan.-June 1971 |

| 36 | 1 | Sensitive Chronological File, July-Dec. 1970 |
### IV.A. NASA Correspondence

| 36 | 2 | Sensitive Chronological File, Jan.-June 1970 |
| 3  | Sensitive Chronological File, Sept.-Dec. 1969 |
| 4  | Sensitive Chronological File, July-Aug. 1969 |
| 5  | Sensitive Chronological File, June 1969 |
| 6  | Sensitive Chronological File, May 1969 |
| 7  | Sensitive Chronological File, Jan.-Apr. 1969 |
| 8  | Sensitive Chronological File, Oct.-Dec. 1968 |

| 37 | 1 | Sensitive Chronological File, Sept. 1968 |
| 2  | Sensitive Chronological File, July-Aug. 1968 |
| 3  | Sensitive Chronological File, May-June 1968 |
| 4  | Sensitive Chronological File, Mar.-Apr. 1968 |
| 5  | Sensitive Chronological File, Jan.-Feb. 1968 |
| 6  | Sensitive Chronological File, Mar.-Dec. 1967 |

3. Note File

| 38 | 1 | Note File, May 1976 |
| 2  | Note File, Apr. 1976 |
| 3  | Note File, Mar. 8-Mar. 31, 1976 |
| 4  | Note File, Mar. 1-Mar. 7, 1976 |
| 5  | Note File, Feb. 11-Feb. 28, 1976 |
| 6  | Note File, Feb. 1-Feb. 10, 1976 |
| 7  | Note File, Jan. 1976 |

| 39 | 1 | Note File, Dec. 16-Dec. 31, 1975 |
| 2  | Note File, Dec. 1-Dec. 15, 1975 |
| 3  | Note File, Nov. 16-Nov. 30, 1975 |
| 4  | Note File, Nov. 1-Nov. 15, 1975 |
| 5  | Note File, Oct. 1975 |
| 6  | Note File, Sept. 16-Sept. 30, 1975 |
| 7  | Note File, Sept. 1-Sept. 15, 1975 |
| 8  | Note File, Aug. 16-Aug. 31, 1975 |
| 9  | Note File, Aug. 1-Aug. 15, 1975 |

<p>| 40 | 1 | Note File, July 16-July 31, 1975 |
| 2  | Note File, July 1-July 15, 1975 |</p>
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IV.A. NASA Correspondence

45 1 Note File, Mar. 15-Mar. 21, 1974
2 Note File, Mar. 1-Mar. 14, 1974
3 Note File, Feb. 22-Feb. 28, 1974
4 Note File, Feb. 15-Feb. 21, 1974
5 Note File, Feb. 8-Feb. 14, 1974
6 Note File, Feb. 1-Feb. 7, 1974
7 Note File, Jan. 22-Jan. 31, 1974

46 1 Note File, Jan. 15-Jan. 21, 1974
2 Note File, Jan. 8-Jan. 14, 1974
3 Note File, Jan. 1-Jan. 7, 1974
4 Note File, Dec. 20-Dec. 31, 1973
5 Note File, Dec. 15-Dec. 19, 1973
6 Note File, Dec. 8-Dec. 14, 1973
7 Note File, Dec. 1-Dec. 7, 1973

47 1 Note File, Nov. 16-Nov. 30, 1973
2 Note File, Nov. 1-Nov. 15, 1973
3 Note File, Oct. 11-Oct. 31, 1973
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6 Note File, Sept. 1-Sept. 15, 1973

48 1 Note File, Aug. 16-Aug. 31, 1973
2 Note File, Aug. 1-Aug. 15, 1973
3 Note File, July 16-July 30, 1973
4 Note File, July 1-July 15, 1973
5 Note File, June 16-June 30, 1973
6 Note File, June 1-June 15, 1973
7 Note File, May 1973

49 1 Note File, Apr. 16-Apr. 30, 1973
2 Note File, Apr. 1-Apr. 15, 1973
3 Note File, Mar. 16-Mar. 31, 1973
4 Note File, Mar. 1-Mar. 15, 1973
5 Note File, Feb. 16-Feb. 28, 1973
6 Note File, Feb. 1-Feb. 15, 1973
7 Note File, Jan. 1973
IV.A. NASA Correspondence

50 1 Note File, Dec. 1972
2 Note File, Nov. 1972
3 Note File, Oct. 1972
4 Note File, Sept. 1972
5 Note File, July-Aug. 1972
6 Note File, June 1972
7 Note File, May 15-May 31, 1972

51 1 Note File, May 1-May 10, 1972
2 Note File, Apr. 1972
3 Note File, Feb. 16-Mar. 31, 1972
4 Note File, Feb. 1-15, 1972
5 Note File, Jan. 1972
6 Note File, Dec. 16-Dec.31, 1971
7 Note File, Dec. 1-Dec. 15, 1971
8 Note File, Nov. 1971

52 1 Note File, Oct. 1971
2 Note File, Sept. 1971
3 Note File, Aug. 1971
4 Note File, July 1971
5 Note File, June 1971
6 Note File, Apr.-May 1971
7 Note File, Feb.-Mar. 1971
8 Note File, Jan. 1971

53 1 Note File, Dec. 1970
2 Note File, Aug.-Nov. 1970
3 Note File, June-July 1970

4. Apollo Memoranda

4 Apollo Notes for Dr. Gilruth, #501-#532, June 6-Nov. 5, 1969
5 Apollo Notes for Dr. Gilruth, #451-#500, Mar. 19-June 4, 1969
6 Apollo Notes for Dr. Gilruth, #401-#450, Dec. 11, 1968-Mar. 18, 1969
7 Apollo Notes for Dr. Gilruth, #351-#400, Sept. 23-Dec. 10, 1968
8 Apollo Notes for Dr. Gilruth, #301-#350, July 1-Sept. 22, 1968
54 1 Apollo Notes for Dr. Gilruth, #251-#300, Apr. 22-June 28, 1968
2 Apollo Notes for Dr. Gilruth, #201-#250, Feb. 19-Apr. 21, 1968
3 Apollo Notes for Dr. Gilruth, #151-#200, Dec. 12, 1967-Feb. 17, 1968
4 Apollo Notes for Dr. Gilruth, #101-#150, Sept. 20-Dec. 11, 1967
5 Apollo Notes for Dr. Gilruth, #51-#100, June 19-Sept. 19, 1967
6 Apollo Notes for Dr. Gilruth, #1-#50, Apr. 10-June 16, 1967
7 Apollo Memoranda, AB-100 through AB-159, Feb. 13-Apr. 8, 1967
document meetings, telephone calls, etc.; primarily
targeting changes to be made in Apollo spacecraft materials,
design, testing and procedures
8 Miscellaneous Apollo Notes, 1967-1969
   Apollo and LM notes authored by Apollo Spacecraft Program Office
   managers and assistants; also includes miscellaneous memoranda
   regarding the status of the Apollo program in late 1969 from James
   A. McDivitt, GML's replacement at the Office

5. Citizens' Correspondence
requests for autographs and information on the space program, letters
expressing opinions and ideas (regarding Bible readings on flights,
space stations, etc.), letters remarking on Low family genealogy, etc.;
correspondents include a wide array of foreigners, teachers and school
children, subcontractors, and past or present colleagues

55 1 Citizens' Correspondence, A
2 Citizens' Correspondence, B-Bo
3 Citizens' Correspondence, Br-Bu
4 Citizens' Correspondence, C
5 Citizens' Correspondence, D-E
6 Citizens' Correspondence, F
7 Citizens' Correspondence, G
8 Citizens' Correspondence, B. Greenwood

56 1 Citizens' Correspondence, H
2 Citizens' Correspondence, I-J
3 Citizens' Correspondence, K
4 Citizens' Correspondence, L
5 Citizens' Correspondence, M
IV.A. NASA Correspondence

56  6  Citizens' Correspondence, N-O
    7  Citizens' Correspondence, P-Q
Dr.C  3  Oversize enclosure for letter from F. Papiernikoff
56  8  Citizens' Correspondence, R
    9  Citizens' Correspondence, S
57  1  Citizens' Correspondence, T-Z
    2  Autograph Requests, A-Z

6. Miscellaneous Correspondence

3  Administrator, Sensitive Memoranda, 1973-1976
4  Administrator, Sensitive Memoranda, July-Dec. 1972
5  Administrator, Sensitive Memoranda, Jan.-June 1972
6  Administrator, Sensitive Memoranda, 1971
   primarily memoranda between James C. Fletcher and GML, also
   includes selected memoranda for the record and memoranda to
   NASA and White House staff; covers such topics as: NASA exter-
   nal relations, and planning and management of the agency and
   specific projects
7  Administrator, Letters and Statements Written for, Drafts, Feb.
   1972-1975

58  1  Administrator, Letters and Statements Written for, Drafts, 1970-
   authored or annotated by GML; regarding the NASA budget,
   development of the Space Shuttle, etc.
2  Sherrod, Robert, 1975-1978
3  Sherrod, Robert, July-Oct. 1974
4  Sherrod, Robert, Mar.-Apr. 1974
5  Sherrod, Robert, Feb. 1974
6  Sherrod, Robert, Jan. 1974
7  Sherrod, Robert, 1972-1973

59  1  Sherrod, Robert, 1968-1971
    2  Sherrod, Robert, Mss. Chapters 2-4
    3  Sherrod, Robert, Mss. Chapters 7, 8, 10, 12
Sherrod, Robert, Mss. Chapters 13, 14 correspondence, clippings, reports, etc. primarily regarding Sherrod's manuscript on Apollo history, and GML's views on NASA history; includes Sherrod's notes or transcripts of interviews with GML, Donald K. Slayton, Richard C. McCurdy, Joseph F. Shea, Thomas O. Paine, Gen. Samuel Phillips, and others; chapters of Sherrod's manuscript on Apollo history include GML's annotations and/or comments made by Robert Gilruth, Rocco Petrone, Christopher C. Kraft and Thomas O. Paine

Webb, James E., 1971, 1974 regarding conflict of interest, and NASA's support base

Cleared Apollo Action Notes, June-Sept. 1969

Cleared Apollo Action Notes, Mar.-May 1969 primarily memoranda between GML and his staff discussing issues or anomalies relating to Apollo spacecraft hardware and configurations

Personal Correspondence, A-Z, 1966-1975 thank you's, congratulations, nominations, etc. to and from NASA personnel, astronauts, and others; includes letters from James E. Webb and Ethel Merman (ALS 27 Feb. 1973)

Sensitive Personal Correspondence, 1961-1970 primarily to and from NASA personnel regarding selection and management of contractors, etc.

Congratulatory Correspondence, 1969-1970

Congratulatory Correspondence, Dec. 1969 (legalsize item)

Congratulatory Correspondence, 1969 regarding GML's appointment as NASA Deputy Administrator, from NASA colleagues, other federal agencies, personal friends, etc.; includes TLS George [Bush] 13 Nov. 1969

Thank You Letters to NASA Headquarters Staff, 1964 sent upon leaving Washington for the Manned Spacecraft Center

Letters Received, 1964-1975 primarily from NASA staff, regarding NASA external relations, etc.; includes a list of Lewis Research Center's 1947-1960 air launches (the 1957-1958 launches were supervised by GML) and a
card from Prince Juan Carlos of Spain (TDS Juan Carlos and Sophie 5 Feb. 1969)

Letters Sent, Drafts, n.d.
regarding NASA's role, budget, programs, etc.

B. Notes

1. Notes and Notebooks

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<td>Notes, May 27-Nov. 13, 1975 (3 notebooks)</td>
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<td>Notes, Dec. 22, 1974-May 16, 1975 (3 notebooks)</td>
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<td>Notes, July 8-Dec. 22, 1974 (3 notebooks)</td>
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64  7 Notes, Telephone Calls, Jan. 5-June 4, 1976 (1 notebook) kept by GML's secretary, includes names, time called, and sometimes a brief notation as to the purpose of the call
8 Notes, FY1977 Budget, Sept. 5-Sept. 22, 1975 (1 notebook) includes notes on meetings, and miscellaneous figures
9 Notes, GAO 1973 Shuttle Investigation, Apr. 23, 1973 includes Shuttle planning, and strategy for meeting the investigation
10 Miscellaneous Notes, ca. 1973 regarding NASA technology and national productivity

2. Personal Notes

65  1 Personal Notes, #167, June 4, 1976 includes “Follow-On Documents” such as NASA Council and Center Directors June 1976 meeting materials
2 Personal Notes, #166, May 21, 1970
3 Personal Notes, #162-#165, Mar.-Apr. 1976
4 Personal Notes, #158-#161, Jan.-Feb. 1976
5 Personal Notes, #151-#157, Sept.-Dec. 1975

66  1 Personal Notes, #146-#150, June-Aug. 1975
2 Personal Notes, #143-#145, May 1975 includes “Special Notes on Consideration as FAA Administrator” and “Notes From Visit to Soviet Union”
3 Personal Notes, #139-#142, Mar.-Apr. 1975
4 Personal Notes, #136-#138, Jan.-Feb. 1975
5 Personal Notes, #131-#135, Nov.-Dec. 1974
6 Personal Notes, #127-#130, Sept.-Oct. 1974

67  1 Personal Notes, #124-#126, July-Aug. 1974 includes West Africa trip notes
2 Personal Notes, #120-123, May-June 1974 includes “Discussions Concerning ASTP Follow-On Mission”
3 Personal Notes, #115-#119, Mar.-Apr. 1974
4 Personal Notes, #111-#114, Jan.-Feb. 1974
5 Personal Notes, #107-#110, Nov.-Dec. 1973
## C. Subject Files

### 1. Administrative and General Apollo Files

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| 71  | 1      | Apollo Applications Program (AAP), 1966, n.d.  
|     |        | correspondence among GML, Robert Gilruth, Wernher von Braun  
|     |        | and George Mueller regarding the Lunar Exploration Program,  
|     |        | AAP planning and Manned Spacecraft Center/ Marshall Space  
|     |        | Flight Center post-Apollo roles |
|     | 2      | Apollo Lunar Missions, Science Payloads, ca. 1971  
|     |        | lists of experiments for Apollo missions 8, 10-12, 14-15 |
|     | 3      | Apollo Telescope Mount, 1966  
|     |        | primarily notes of a meeting with George Mueller |
|     | 4      | Appointments as Deputy and Acting Administrator, 1969-1970  
|     |        | correspondence, memoranda, clippings, photographs, legal papers, etc. |
| Dr.D |        | Appointment as Deputy Administrator, Dec. 3, 1969  
|      |        | audio tape of the swearing-in ceremony, with remarks by GML,  
|      |        | Thomas O. Paine, Robert Seamans and James Webb |
Astronaut Corps, 1972-1978
primarily background information and photographs

Astronaut Corps, Swigert Case, 1972, 1975
correspondence and notes regarding investigation and actions
resulting from the sale of autographed stamp blocks

Contingency Planning, 1970
memoranda and plans regarding Apollo 13 assignments and
overall planning

Donation of Personal Papers to Presidential Libraries, 1971-1973
correspondence and miscellaneous papers regarding the type and
method of donation

Executive Inventory Records, 1967-1974
miscellaneous correspondence and GML's Civil Service Commiss-
ion executive inventory record forms

Executive Recruitment:
primarily correspondence, memoranda, GML notes and miscellaneous
papers regarding candidates

General and Miscellaneous, n.d.

General and Miscellaneous, 1970-1976

Center Operations, 1974
KSC Director, 1974
Office of Advanced Research and Technology, n.d.
Office of Advanced Research and Technology, 1970
Office of Applications, 1976
Procurement, 1976
Public Affairs Office, Apr. 1971

Financial Interest Statements, 1965-1975
primarily correspondence and forms, also includes memoranda
regarding GML's membership on the RPI Board of Trustees
First Day Covers and Commemorative Stamps:
  stamps with related correspondence and photographs; the bulk 
  commemorate aerospace events

73  2  Stamps and papers, 1975-1982
3   Stamps and papers, 1972-1974
4   Stamps and papers, 1962-1971

149 2  Legalsize papers, 1976

Dr.C  4  Oversize albums, ca. 1964-1975

73  5  Fracture Mechanics, 1968, n.d.
  memoranda, briefing charts and graphs regarding work performed 
  for the Apollo program

  primarily thank you correspondence regarding gifts received

7   Grumman Aircraft Engineering Corporation (GAEC), 1968 
  correspondence and memoranda regarding LM schedules, control 
  of changes, and GAEC manufacturing problems, also includes 
  NASA reports on GAEC activities

8   Investigation of Contractors' Gifts to NASA Employees, 1976 
  annotated draft of GML's interview recounting his relations with 
  contractors

9   Job Offers, 1971, 1974 
  correspondence regarding GML's candidacy for various positions

3   LM Vibration Testing, Jan. 1968
5   LM Vibration Testing, Apr.-Aug. 1967 
  memoranda, notes, briefing charts, and compiled test data regard- 
  ing planning, procedures, status and results of testing on the Lunar 
  Module, Command and Service Module, Lunar Orbiter and other 
  hardware

6   Land Landing, n.d.

75  1   Land Landing, 1968
2   Land Landing, 1967 
  memoranda, reports, briefing charts, photographs and test data 
  regarding low-altitude pad abort tests, wind constraints, and "soil
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<td>oversize chart of organizational and functional relationships</td>
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<td>NASA Organization, oversize organization charts, 1974</td>
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<td>Personnel Information (GML), 1946-1976</td>
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<td>notification of personnel action forms and miscellaneous papers regarding GML's change of job or salary, etc.</td>
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<td>President's Statements on Space Program, 1969-1972</td>
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<td>149</td>
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<td>President's Statements on Space Program, 1970-1972 (legalsize)</td>
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<td>primarily statements made by Thomas O. Paine, James C. Fletcher, GML and Pres. Nixon regarding the Space Shuttle and the space program of the 1970's</td>
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<td>Resignation as Deputy Administrator, 1975-1976</td>
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<td>correspondence, notes, clippings, etc. regarding GML's retirement and retirement party, also includes Pres. Ford's acceptance of GML's resignation (TLS Jerry Ford 22 March 1976)</td>
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<td>Scheer, Julian, Resignation, 1971</td>
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<td>correspondence between GML and Scheer regarding Scheer's resignation</td>
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IV.C. NASA Subject Files

76  3  Space Applications Reorganization, 1971
    briefing charts, reports and lists regarding the role and organization
    of the Office, its position in overall NASA organization, and the
    reorganization transition

4  Travel, Miscellaneous, 1970-1973
    primarily routine memoranda regarding foreign travel, immuniza-
    tions, etc.

5  Visits to Center Key People, 1971, 1974
    primarily agendas of visits to centers, also includes notes on
    center EEO, management and personnel

6  White House, 1970-1976
    correspondence with White House staff regarding election contribu-
    tions, Soviet space activity, and the Space Shuttle; also includes
    subject papers regarding the goals of the NASA Administrator and
    Deputy Administrator, and Pres. Nixon's request for GML's 1972
    pro forma resignation (TLS Richard Nixon 19 May 1972)

7  Work Planning and Progress Reviews (WPPRs), 1974-1975
    GML's notes on many Headquarters staff members, and three
    reviews conducted by Roy P. Jackson

2. Specific Flight Files

Space Shuttle:

Dr.D
“STS-1 Post Flight Press Conference,” 16mm film
    color footage of the flight of STS-1, with commentary by
    the astronauts

76  8  STS-1 Launch Information Kit, Apr. 1981
    this file also includes correspondence regarding the launch, a list of
    guests, general mission description briefing charts, etc.

9  Shuttle Program Management Assessment, Sept. 12, 1979
    consultants' report assessing the management process

10  Systems Engineering Review, July 1977
    briefing charts

77  1  Batelle User Development Plan, Mar. 1977
    research report by Batelle's Columbus Laboratories, includes the
    executive summary and revision 1
    briefing charts (2 vols.), with agenda and results of the meeting
4    Main Engine Systems Review, Feb. 1977
    briefing charts, presented by Rockwell International
5    Solid Rocket Booster Review, Feb. 1977
    briefing charts primarily regarding design and safety

78  1    Orbiter 101 Rollout, [1976]
    photograph album produced by Rockwell International
2    Tour of Rockwell-Palmdale, Apr. 12, 1976
    photograph album produced by Rockwell International
3    Orbiter Assembly, Apr.-May 1976
    photograph album produced by Rockwell International regarding
    construction of facilities, and assembly and testing of the orbiter,
    also includes project schedule briefing charts
4    Subcontracting, Oct. 1974
    miscellaneous papers regarding NASA contracts with North Ameri-
    can Rockwell and Grumman Aircraft Engineering Corp.
5    Proceedings of the Space Shuttle Sortie Workshop, Vol. 1, July 31-
    Aug. 4, 1972
    covers policy and systems characteristics, includes GML's keynote
    address
6    Debate, Apr.-May 1972
    correspondence and statements concerning Sen. Mondale's opinions
    and investigation of the Space Shuttle
7-8 Decisions, Feb.-Mar. 1972
    collected briefing charts, correspondence and reports regarding
    Shuttle options, cost analysis, environmental considerations, booster
    decision factors, views of key members of Congress, etc.
9    Meetings with Don Rice, Feb.-Mar. 1972
    memoranda for the record and background papers regarding Shuttle
    planning and NERVA phasedown

149  4    President's Decision on Space Shuttle, 1971-1972
    (legalsize papers)
    statements and memoranda regarding GML and James C.
     |                 | briefing charts, correspondence, GML notes, graphs, etc. regarding cost-benefit analyses, selection of configuration rationale, etc.  
     | 2               | Background, Jan. 1971-Mar. 1972  
     |                 | briefing charts, correspondence, GML notes, etc. regarding costs, configuration, purpose, payloads, etc.  
     |                 | correspondence, briefing charts, and notes regarding the management of contractors, roles of NASA centers, and procurement planning  
     |                 | briefing charts, collected correspondence, and notes regarding cost estimates, procurement strategy, weight and design planning, etc.  
     | 5               | Miscellaneous Correspondence and Papers, 1982  
     |                 | invitations and miscellaneous papers regarding launches and landings, also correspondence and a report regarding a proposal to privately fund Orbiter V  
     | 6               | Miscellaneous Correspondence and Papers, 1977-1981  
     |                 | regarding a celebration of the Columbia's flight, William S. Anders' view of STS status in 1979, etc.  

Apollo-Soyuz Test Project (ASTP):  
7 Index to Onboard Photography, n.d.  
8 Press Kit [in Russian]  
9 Photographs of Astronauts Award Ceremony at White House, Aug. 1975.

| 80  | 1               | Emergency Breathing Masks, Aug. 1975  
     |                 | photographs and memoranda regarding  
     | 2               | Photographs of Launch Control Center, July 15, 1975  
     | 3               | Launch-2 Day Review, July 13, 1975  
     |                 | agenda and briefing charts for the launch readiness review  
     | 4               | Pre-Launch Mission Operation Report, July 7, 1975  
     | 5               | Senator Proxmire, June-July 1975  
     |                 | correspondence, statements and clippings regarding Sen. Proxmire's views of Soviet space capabilities  
     | 6               | Safety Meeting, June 24, 1975  
     |                 | briefing charts, correspondence and reports regarding safety concerns
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<td>Technical Review, June 19, 1975</td>
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<td>Flight Plan, Revision A, June 18, 1975</td>
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<td>Joint Crew Activities Plan, June 14, 1975</td>
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<td>TV Operations Book, May 9, 1975</td>
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<td>Contingency Plan, Apr. 25, 1975</td>
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<td>7</td>
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<td>Mission Implementation Plan, Nov. 1973</td>
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<td>Keldysh Visit, Oct.-Nov. 1972</td>
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<td>Photographs from 4th Joint Meeting, July 1972</td>
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<td>Minutes of the 4th Joint Meeting, U.S.S.R. Academy of Sciences and U.S. NASA, with Related Documents, July 1972</td>
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<td>Congressional Testimony, May-June 1972</td>
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<td>Negotiations and Agreement, 1971-1972</td>
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<td>Debris, Nov. 1970-July 1979</td>
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<td>Skylab Facts, Mar.-Nov. 1973</td>
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<td>Mission Planning Press Briefing, Oct. 27, 1972</td>
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<td>Final Flight Plan, Oct. 23, 1972</td>
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<td>Debriefing, May 3, 1972 GML's notes from the meeting</td>
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<td>Photographs, Apr. 1972 Apollo 16 EVA activities, mission control, and an autographed photograph of Vice Pres. Agnew (n.d.)</td>
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<td>Daily Operations Reports, Apr. 1972</td>
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<td>Oversize Preliminary EVA Traverse Maps</td>
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<td>Miscellaneous Papers, Mar. 1971-June 1972 GML's post-flight press conference remarks, EVA field geology reports, correspondence and memoranda regarding launch invitations, including a letter of regret from Ethel Merman (ALS 14 March 1972), etc.</td>
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<td>Photographs, Sept. 1971 a presentation by the astronauts to GML</td>
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<td>Mission Operation Report, Apollo Supplement, July 1971</td>
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<td>Mission Implementation Plan, July 1971</td>
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<td>Extravehicular Activity (EVA), June-Aug. 1971 maps, charts, briefing materials, correspondence, notes and reports regarding EVA activities</td>
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<td>Miscellaneous Papers, Mar.-Oct. 1971, 1972</td>
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 correspondence and memoranda of meetings regarding the lunar landing mission schedule

Apollo 14:
  3 Photographs, Jan. 1971
    the launch control center and a banquet, including images of Vice Pres. Agnew, and Prince Juan Carlos and Princess Sophie of Spain
  4 Pre-Launch Dinner, Jan.-Feb. 1971
    thank you letters, invitations and protocol information regarding the visits of foreign dignitaries
  5 Mission Operation Report, Jan. 1971
  6 Mission Implementation Plan, Jan. 1971

Dr.C
  6 Oversize Geologic Atlas of the Moon, Fra Mauro Region
    correspondence, releases, articles, etc., includes a thank you letter from Prince Juan Carlos of Spain (TLS 30 April 1971)

Apollo 13:
    primarily briefing charts
  8 Report of Apollo 13 Review Board, June 15, 1970
  9 Report of Apollo 13 Review Board, Appendix A

Apollo 13 Review Board, May 1970
  6 Apollo 13 Review Board, April 1970
    memoranda, notes, briefing charts, status reports, etc. regarding the establishment and work of the Review Board and the Manned Spacecraft Center Investigation Team; includes the Post Launch Mission Operation Report
| 89 | 1 | Statements to the Congressional Committee, Apr.-June 1970  
|    |   | statements of Thomas O. Paine and Edgar M. Cortright, list  
|    |   | of questions, etc.  
| 2  |   | Congressional Hearings, Apr.-June 1970  
|    |   | copies of the hearings before the Senate Committee on Aeronauti- 
|    |   | cal and Space Sciences and the House Committee on Science and  
|    |   | Astronautics  
| 3  |   | Press Releases, Apr. 1970  
|    |   | includes press conference statements, and the mission director’s  
|    |   | summary report  
| 4  |   | Photographs from the Flight, Apr. 1970  
|    |   | the spacecraft, earth and moon  
| 5  |   | Public Affairs Plan, Apr. 1970  
| 7  |   | Mission Implementation Plan, Apr. 1970  
| 90 | 1 | Final Flight Plan, Mar. 1970  
| 2  |   | Lunar Exploration Experiments and Photography Summary, Feb. 1970  
| Dr. C | 6 | Oversize Maps of Fra Mauro Landing Site  
| 90 | 3 | Miscellaneous Papers, Feb.-May 1970  
|    |   | memoranda, briefing notes, reports, itineraries, collected statements  
|    |   | and articles regarding launch activities, lunar geology, etc.  
|    |   |  
|    | Apollo 12:  
| 4  |   | Lunar Geology, 1969, 1971  
|    |   | timeline charts, typed notes, and clippings  
| 5  |   | LM Lunar Surface Maps  
|    | Apollo 11:  
| 6  |   | Fifth and Tenth Anniversaries, 1974, 1979  
|    |   | photographs, GML’s notes for an interview, and collected papers  
|    |   | regarding anniversary ceremonies and the dedication of Washing- 
|    |   | ton Cathedral’s space window  
| 7  |   | First Moon Landing Anniversary, July 1970  
|    |   | news releases  
| Dr. D |   | “Touchdown Plus One: A Postscript to History,” audio tape  
|    |   | a narrated tape of the flight, includes remarks made by GML,  
|    |   | the astronauts and others  


IV.C. NASA Subject Files

90  8  Mission Report, Nov. 1969
151
   Glass slide, July 1969
   GML, Robert Gilruth and others with a box of lunar samples

91  1  Flight Reference Book
   includes charts, memoranda and notes regarding items of concern,
   also contains notes on Apollo 10 anomalies

   2  Revision 1 to the Spacecraft Operational Trajectory for Mission G
      (Apollo 11), Volume 1, Operational Mission Profile, Launched
      July 16, 1969

   3  Final Flight Plan, July 1, 1969

      charts, notes and memoranda

   5  LM-5 Gyro Problem, July 1969
      memoranda and briefing charts

   6  Lunar Surface Charts and Rendezvous Tables, June-July 1969

Dr.C  6  Oversize Target of Opportunity Flight Chart and unlabeled
      cylindrical map

91  7  LM-5 Lunar Surface Checklist, June 16, 1969

   8  Views from the CM and LM During the Flight, June 12, 1969

92  1  Contingency Checklist, June 9, 1969


   3  LM-5 Activation Checklist, May 26, 1969

   4  LM Weights, Mar. 1969
      presentation charts

   5  Timeline, Dec. 1968-Mar. 1969
      flight plans, graphs and charts regarding orbit and EVA activities

   6  Downey ATO Activities, Feb.-Mar. 1968
      primarily notes regarding visits and meetings

   7  Miscellaneous Papers, 1969, 1972
      photographs and miscellaneous materials regarding lunar surface
      activities, etc.

Apollo 10:

   8  Mission Report, Aug. 1969

9-10  Flight Reference Book
includes miscellaneous status reports, and collected memoranda
and lists regarding pre-flight testing and flight anomalies

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<th>Dr.C</th>
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Dr.C | 6
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<td>Congratulatory Letters, Dec. 1968</td>
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4-5

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<th>Special Notes, Aug.-Dec. 1968</th>
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<td>GML's special Personal Notes covering the activities and decisions of June-Nov. 1968; also includes agendas and briefing charts for Nov. mission selection meetings, and notes, telegrams and memoranda among Gen. Samuel Phillips, Thomas O. Paine and James Webb</td>
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memoranda, telexes, briefing charts, charts and GML notes regarding the mission selection decision, spacecraft modifications, etc.

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lists crew safety, mission success, and fire related changes,
includes Change Review Meeting (?) briefing charts
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|95|1| Block 2 LM Changes, [ca. May 1967]
|   |   | lists crew safety, mission success, and fire related changes,
|   |   | includes memoranda regarding the status of change review actions
|2| | Report of Apollo 204 Review Board, Apr. 1967
|   |   | includes photographs
|3| | Post-Accident Spacecraft Change Activity, Mar.-Apr. 1967
|149|5| Post-Accident Spacecraft Change Activity, (legalsize papers)
|   |   | briefing charts, action lists, and miscellaneous memoranda
|   |   | reports and minutes regarding post-accident investigation, configuration accounting, materials review, etc.
|5| | Miscellaneous Papers, Mar. 17-May 1, 1967
|6| | Miscellaneous Papers, Feb. 17-Mar. 16, 1967
|7| | Miscellaneous Papers, 1966-Feb. 16, 1967
|   |   | correspondence, memoranda, GML notes, reports, briefing charts, and miscellaneous papers regarding the establishment of the Review Board, spacecraft assessment and design alternatives, materials review, test procedures, and North American Aviation's work to date
|96|1-2| Gemini Album, March 1967
|   |   | primarily photographs of or by Gemini flights II-XII

Gemini VIII-X:

|3| | Rendezvous Figures and Charts, 1966

Gemini VI:

|4| | Rendezvous Figures and Charts, 1966

Gemini V:

|5| | Experiments Interim Report, Jan. 6, 1966

Gemini IV:

|6| | Congratulatory Correspondence and Miscellaneous Papers, June 1965, n.d.
|   |   | primarily collected correspondence addressed to NASA personnel

Gemini III-IV:

|7| | Manned Space Flight Experiments Symposium, Oct. 18-19, 1965
D. Meeting Records

1. Apollo Reviews
   primarily agendas, minutes, briefing charts, reports, and memoranda

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<td>Test Readiness Review Board, June 1968</td>
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<td>Test Readiness Review Board, May 1968 regarding Spacecraft 2TV-1/098, includes industry reports</td>
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<td>Design Certification Review, Mar. 6-7, 1968</td>
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<td>Design Certification Review, ca. Mar. 5, 1968</td>
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<td>Design Certification Review, Feb. 26, 1968</td>
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<td>Design Certification Review, Feb. 1968 regarding LM-2 and -3, and CSM 101, includes industry reports</td>
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<td>LM-2 Flight Requirement Meeting, Jan. 1968 regarding the Apollo 5 flight</td>
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2. Meeting Records
   records generally include a listing of date, time, attendees, subject, and a synopsis of issues discussed; they may also include enclosures, such as agendas, briefing charts, calendars of events, statements and memoranda; records primarily reflect the decisions and resulting actions of NASA Headquarters staff meetings, although meetings with international dignitaries, industrial leaders, Congressional staff, and the staff of other agencies are also included; meeting topics cover a wide variety of issues: planning and organization of NASA, its offices and centers, management of programs and projects, status and planning for the NASA budget, external, legislative and public affairs, etc.

<p>| 7   |        | Meeting Records, May-June 1976 |
| 100 | 1 | Meeting Records, Apr. 1976 |
|     | 2 | Meeting Records, Mar. 8-Mar. 31, 1976 |
|     | 3 | Meeting Records, Mar. 1-Mar. 7, 1976 |
|     | 4 | Meeting Records, Feb. 1976 |
|     | 5 | Meeting Records, Jan. 1976 |
| 101 | 1 | Meeting Records, Dec. 16-Dec. 31, 1975 |
|     | 2 | Meeting Records, Dec. 1-Dec. 15, 1975 |
|     | 3 | Meeting Records, Nov. 1975 |
|     | 4 | Meeting Records, Oct. 1975 |
|     | 5 | Meeting Records, Sept. 1975 |
|     | 6 | Meeting Records, Aug. 7-Aug 31, 1975 |
| 102 | 1 | Meeting Records, Aug. 1-Aug. 6, 1975 |
|     | 2 | Meeting Records, July 26-July 31, 1975 |
|     | 3 | Meeting Records, July 23-July 25, 1975 |
|     | 4 | Meeting Records, July 17-July 22, 1975 |
|     | 5 | Meeting Records, July 1-July 15, 1975 |
| 103 | 1 | Meeting Records, June 1975 |
|     | 2 | Meeting Records, May 1975 |
|     | 3 | Meeting Records, Apr. 1975 |
|     | 4 | Meeting Records, Mar. 1975 |
|     | 5 | Meeting Records, Feb. 18-28, 1975 |
|     | 6 | Meeting Records, Feb. 3-13, 1975 |
| 104 | 1 | Meeting Records, Jan. 16-Jan. 31, 1975 |
|     | 2 | Meeting Records, Jan. 1-Jan. 15, 1975 |
|     | 3 | Meeting Records, Dec. 16-Dec. 31, 1974 |
|     | 4 | Meeting Records, Dec. 1-Dec. 15, 1974 |
|     | 5 | Meeting Records, Nov. 15-Nov. 30, 1974 |
|     | 6 | Meeting Records, Nov. 7-Nov. 14, 1974 |
| 105 | 1 | Meeting Records, Nov. 1-Nov. 6, 1974 |
|     | 2 | Meeting Records, Oct. 16-Oct. 31, 1974 |
|     | 4 | Meeting Records, Sept. 16-Sept. 30, 1974 |</p>
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| 105  | 5  Meeting Records, Sept. 1-Sept. 15, 1974  
   | 6  Meeting Records, Aug. 1974          |
| 106  | 1  Meeting Records, July 21-July 31, 1974  
   | 2  Meeting Records, July 11-July 20, 1974  
   | 3  Meeting Records, July 1-July 10, 1974  
   | 4  Meeting Records, June 14-June 30, 1974  
   | 5  Meeting Records, June 1-June 13, 1974  
   | 6  Meeting Records, May 1974            |
| 107  | 1  Meeting Records, Apr. 1974           
   | 2  Meeting Records, Mar. 1974           
   | 3  Meeting Records, Feb. 12-Feb. 28, 1974  
   | 4  Meeting Records, Feb. 1-Feb. 11, 1974  
   | 5  Meeting Records, Jan. 16-Jan. 31, 1974  
   | 6  Meeting Records, Jan. 1-Jan. 15, 1974  
| 108  | 1  Meeting Records, Dec. 1973           
   | 2  Meeting Records, Nov. 1973           
   | 3  Meeting Records, Oct. 29-Oct. 31, 1973  
   | 5  Meeting Records, Sept. 1973         
   | 6  Meeting Records, Aug. 1973          |
| 109  | 1  Meeting Records, July 1973           
   | 2  Meeting Records, June 1973           
   | 3  Meeting Records, May 1973            
   | 4  Meeting Records, Apr. 1973           
   | 5  Meeting Records, Mar. 1973           
   | 6  Meeting Records, Jan.-Feb. 1973      
   | 7  Meeting Records, Nov.-Dec. 1972      
   | 8  Meeting Records, Sept.-Oct. 1972     |
| 110  | 1  Meeting Records, Apr.-Aug. 1972      
   | Miscellaneous Meetings:                 
   | 2  "Think Group", May-June 1971        
   | typed notes of meetings of key Headquarters staff regarding |
benefits from the space program; also includes essays by meeting attendees, collected reports, speeches, etc. regarding the space program

Agendas and GML Notes, 1970-72, n.d.
includes a 1971 White House economic briefing, and center directors' meetings in 1970 and 1973

E. Calendars

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<td>includes notes from the Latin American tour</td>
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<tr>
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F. Travel Vouchers

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<td>Travel Vouchers, July 1975-June 1976</td>
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<td>Travel Vouchers, Apr.-June, 1975</td>
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G. Tours and Trips

1. Monaco, Eurospace Conference, Oct. 1975
   the 6th conference on U.S.-European partnership in space applications

   Box Folder
   116 1 Eurospace Speech
       notes, draft, final version and transcript of GML's speech, "Space: the Near Future"
   2 Itinerary, Background, and Collected Materials
       copies of other conference addresses, a program, collected memoranda regarding the Spacelab, etc.
   3 Clippings

   to attend the celebration of the 250th anniversary of the Soviet Academy of Sciences

   4 Trip Notes and Correspondence
       primarily thank you letters
   5 Itinerary and Background Materials
       includes a list of American participants and background correspondence
   6 Collected Materials and Mementos
       brochures, programs, postcards, etc.
3. Moscow Trip, May 1975
   to visit the Soviet launch site, conduct a joint flight readiness review of
   Apollo-Soyuz Test Project, and hold informal discussions regarding
   future cooperative efforts

116  7  Trip Report and Notes
     complete and edited versions of the trip report, summary minutes
     of the flight readiness review, notes for GML's remarks, and back-
     ground correspondence

8  Itineraries and Briefing Materials
   collected brochures and program, background materials on U.S.-
   Soviet cooperative efforts in aerospace programs, etc.

9  Miscellaneous Papers
   primarily notes regarding gifts, also includes Boris N. Petrov's
   opening remarks at the press conference

10  Photographs, Clippings and Mementos

   to meet with Jacques Cousteau off the Yucatan Peninsula in order to
   view the Ship Calypso's in-situ measurements of NASA satellite and
   aircraft readings

11  Trip Report and Notes

117 1  Correspondence, Background Information, and Photographs
     primarily background materials concerning the joint NASA-Calypso
     project, also includes correspondence regarding travel arrangements,
     and photographic negatives of GML with crew members (?)

5. African Trip, July 1974
   a trip to Senegal, Mali, Upper Volta and the Azores to inspect the
   work of Project GATE (GARP Atlantic Tropical Experiment) and
   Project FAMOUS (French-American Mid-Ocean Undersea Study), and
   to view the Sahelian drought region

2  Trip Report and Notes

3  Itinerary and Background Materials
materials relating to NASA’s involvement in Project GATE, to ERTS and the Sahelian drought, Project FAMOUS, etc.

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<tr>
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<tbody>
<tr>
<td></td>
<td>Correspondence and Miscellaneous Papers</td>
<td></td>
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<tr>
<td></td>
<td>primarily thank you letters</td>
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<td>GATE Ceremony, Senegal, Briefing Materials</td>
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<td>includes a program, list of participants, information on Senegal and the drought region, etc.</td>
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<td>GATE Ceremony, Senegal, Background and Collected Materials</td>
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<td>includes statements from the inauguration ceremony, materials relating to the project, etc.</td>
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<td>satellite photographs of earth</td>
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<td>FAMOUS Visit, Azores, Background Materials and Photographs</td>
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<td>includes scientific reports and photographs of the Study’s work, collected brochures, etc.</td>
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<tr>
<td></td>
<td>Collected Articles (legalsize papers)</td>
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to conduct a mid-term review of Apollo-Soyuz Test Project, includes a visit to the Soviet mission control center

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<tr>
<td></td>
<td>Trip Report</td>
<td></td>
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<tr>
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<td>also includes drafts of the trip report, a summary of results, and background correspondence</td>
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<td>includes a daily diary and meeting notes</td>
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<tr>
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<td>regarding the trip, work on the ASTP Public Information Plan, and distribution of the trip report</td>
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<tr>
<td></td>
<td>Photographs</td>
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<tr>
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<td>participants at meetings and dinners, at the Soviet Space Museum, reviewing hardware, etc.</td>
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<tbody>
<tr>
<td></td>
<td>Clippings and Mementos</td>
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7. Moscow Trip, Jan. 1971

dot increase cooperation between the U.S.S.R. and the U.S. in the exploration and use of outer space for peaceful purposes.”
118 5 Trip Report
   includes a draft of the report, an overview of U.S.-Soviet
   cooperative efforts in aerospace activities 1962-1971, and
   background correspondence
6 Trip Notes
   includes notes for GML's opening remarks
7 Summary of Results
8 Correspondence and Miscellaneous Papers
   regarding U.S.-Soviet cooperation, travel arrangements, etc.
9 Photographs and Mementos
   photographs of the delegations at meetings and dinners, and
   at a visit to the Gagarin Room at Star City, collected programs,
   stamps, etc.
10-11 Collected Pamphlets
   primarily on Soviet aerospace activities (in Russian, English
   and German)

8. Leningrad, COSPAR Meeting, May 1970
   the 13th plenary meeting of COSPAR (Committee on Space Research)

119 1 Trip Report and Notes
2 Correspondence
   regarding invitation to the meeting, trip and meeting arrangements,
   gifts, etc., also includes photographs from the meeting
3 Itineraries and Arrangements
   includes a list of participants, COSPAR circulars regarding the
   meeting, etc.
4 Proceedings and Presentation Materials
   includes GML's notes and list of slides for his presentation,
   "Apollo Lunar Exploration"
149 7 Presentation Materials
   legalsize photographs of Apollo lunar experiment deployment
119 5 Background Reports and Notes
   materials regarding American spacecraft and lunar science,
   background correspondence between M.V. Keldysh and NASA,
   notes of a previous American visit to the U.S.S.R., etc.
IV.G. NASA Tours and Trips

119 6 Mementos
brochures, programs, autographed postcards of cosmonauts, etc.

a three week goodwill tour through Latin America with astronauts Neil Armstrong and Richard Gordon

7 Trip Report
transcribed notes dictated by GML, includes an appendix of general speeches and lectures given; additional GML notes regarding the tour may be found in NASA Calendars, Oct. 1966

8 Letters Sent
primarily letters of thanks to Latin American hosts and staff members who accompanied GML on the tour

9 Letters Received
primarily responses to thank you letters, also includes letters of condolence regarding the Apollo 204 fire

10 Itineraries and Briefing Materials
includes background notes on countries and biographies of noteworthy individuals to be met

11-12 Itineraries and Background Materials
includes detailed itineraries, invitation lists, GML's briefing notes and notes for speeches, miscellaneous correspondence, etc.

120 1 Scrapbook: Venezuela-Colombia
2-3 Scrapbook: Ecuador-Peru
4-5 Scrapbook: Bolivia-Brazil

121 1-2 Scrapbook: Paraguay-Uruguay-Argentina
3 Scrapbook: Chile-Panama-Washington, DC

149 8 Scrapbook: Legalsize Items
scrapbooks contain collected pamphlets, postcards, maps, invitations, promotional materials and reports on the space program (in Spanish), etc.

121 4 Collected Clippings

149 9 Collected Clippings (legalsize papers)

121 5 Photographs: Colombia
6 Photographs: Paraguay
122 1 Photographs: Ecuador, Brazil, Argentina, Chile
2 Photographs: Peru
3 Photographs: Uruguay
4 Photographs: Miscellaneous
5 Photographs: Negatives
   motorcades, dinners, receptions, press conferences, speeches, presentations, visits to museums and Stadan Station, etc.
6 Miscellaneous Mementos
   primarily hand-colored prints from Latin America

H. Speeches, Statements and Presentations

1. Statements Before Congressional Committees
   files generally contain statement texts or briefing charts; they may also include notes, drafts, and background materials

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<td>Senate Appropriations Committee, Feb. 23, 1976, FY1977 Appropriations</td>
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<td>Senate Committee on Aeronautical and Space Sciences, Jan. 26, 1976, 1976 Authorization</td>
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<td>10</td>
<td>Senate Committee on Aeronautical and Space Sciences, Subcommittee on Aerospace Technology and National Needs, Jan. 21, 1976, Solar Power from Satellites</td>
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<td>Senate Committee on Aeronautical and Space Sciences, Subcommittee on Aerospace Technology and National Needs, Sept. 22, 1975, Space Technology</td>
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<td>Senate Committee on Aeronautical and Space Sciences, Jan. 24, 1974, Equal Employment Opportunity</td>
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<td>Senate Committee on Aeronautical and Space Sciences, Mar. 14, 1973, Space Applications and Technology Utilization</td>
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1. Senate Committee on Aeronautical and Space Sciences, June 22, 1972, U.S.-U.S.S.R. Space Cooperation
2. Senate Committee on Aeronautical and Space Sciences, Apr. 1, 1971, Space Shuttle Program
4. Senate Committee on Aeronautical and Space Sciences (Executive Session), Mar. 17, 1971, U.S.-U.S.S.R. Space Cooperation
5. Senate Committee on Aeronautical and Space Sciences and Joint Committee on Atomic Energy, Feb. 23, 1971, NERVA

House Committees:
8. House Committee on Science and Astronautics, Jan. 27, 1976, Authorization
9. House Committee on Science and Technology, Feb. 4, 1975, Benefits
11. House Committee on Science and Astronautics, Mar. 21, 1974, Technology Utilization and Benefits
   includes photographs of Hearing participants
12. House Committee on Science and Astronautics, Subcommittee on Space Science and Applications, Feb. 4, 1974, Ground Propulsion
13. House Committee on Science and Astronautics, Mar. 20, 1973, Technology Utilization
15. House Committee on Science and Astronautics, Subcommittee on NASA Oversight, June 15, 1971, Mariner 8 Failure and Centaur Reliability
2. Presentations, Speeches and Statements
files contain typed statements or news release copies, outlines, and
notes; they may also include drafts, briefing charts, and background
materials; additional statements, introductions and remarks may be
found in NASA File of the Day

a. Presentation, Speech, and Statement Files
3 Lists of Presentations and Publications, 1951-1975
4 Index to Speeches
   incomplete
5 Speech for Utah Air Force Association Bicentennial Program,
   Apr. 23, 1976
6 Introduction of Keith Glennan at Dryden Flight Research Center
   Dedication, Mar. 26, 1976
7 Speech at Colloquium on Federal Woman's Programs, Nov. 10, 1975
8 Speech before Annual Program Assurance Conference, Oct. 22, 1975
9 Speech to Eurospace Conference, Monte Carlo, Oct. 14, 1975
   entitled “U.S. Space Program and Prospects for Future Cooperation”
10 Speech to National Space Club, Sept. 4, 1975
   audio tape
Dr.D
11 Speech at RPI Commencement, June 5, 1975
12 Speech before Aviation Space Writers Convention, May 6, 1975
13 Presentation at Goddard Space Flight Center Engineering
   Colloquium, Jan. 27, 1975
   entitled “What's Ahead for NASA?”
14 Presentation at George Washington Univ. Seminar,
   “Current Issues in Space Policy,” Jan. 23, 1975
   entitled “How Did NASA Get to Where It Is Today”
15 Remarks at Dedication of the National Observatory
   and Ionosphere Center, Arecibo Observatory, Nov. 16, 1974
   includes programs and photographs of the dedication
16 Speech before California Institute or Technology Management Club, Nov. 13, 1974
entitled “Our Future in Space”
17 Speech at Special Review of “Technology in the Service of Man”, Sept. 10, 1974
18 Speech for the Fifth Anniversary of Moon Landing, July 20, 1974
19 Speech at Fifth Anniversary of Manned Lunar Landing Pad 39A Dedication Ceremonies, July 16, 1974
20 Speech to Langley High School American Realities Seminar, Apr. 27, 1974
22 Speech to Fifth Man in Space Symposium, Nov. 27, 1973
23 Speech to British Interplanetary Society, 13th European Space Symposium, June 25, 1973
24 Speech at Huntsville American Institute of Aeronautics and Astronautics Awards Banquet, Apr. 5, 1973
entitled “The Nation’s Space Program: Past, Present and Future” or “A Study of the Earth and Its Environment”
25 Speech to 4th Annual Lunar Science Conference, Mar. 5, 1973
entitled “The Rewards from Apollo: Realized and Projected”
26 Speech to Washington Rotary Club, Nov. 8, 1972
27 Speech at Ohio State University, First International Conference on Computer Satellites in Agriculture, Oct. 31, 1972
entitled “Status of the Space Program and Its Goals, National and International”
28 Speech before National Space Club, Sept. 28, 1972
29 Speech to Joint National Security Association and Armed Forces Management Association Symposium on Cost, Aug. 16, 1972
entitled “NASA’s Attack on the Cost Problem”
30 Keynote Address, Shuttle Sortie Workshop, July 31, 1972
31 Speech to Convair Management Association, May 23, 1972
32 Speech to 26th Aerospace Industries Association (AIA) Williamsburg Conference, May 18, 1972
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<td>Feb. 17, 1972</td>
<td>Speech before National Space Club, entitled “Productivity in the Space Program”</td>
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<td>33</td>
<td>Feb. 9, 1972</td>
<td>Speech before the Advertising Club of Baltimore, entitled “America’s Stake in the Space Program”</td>
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<td>34</td>
<td>Jan. 10-13, 1972</td>
<td>Remarks at the Third Lunar Science Conference, includes conference program and GML notes</td>
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<td>35</td>
<td>Nov. 17, 1971</td>
<td>Introduction of Chairman Hampton to the Personnel Management Evaluation Symposium</td>
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<td>36</td>
<td>Oct. 9, 1972</td>
<td>Speech before the Advertising Club of Baltimore, entitled “America’s Stake in the Space Program”</td>
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<td>37</td>
<td>Nov. 17, 1971</td>
<td>Introduction of Chairman Hampton to the Personnel Management Evaluation Symposium</td>
</tr>
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<td>38</td>
<td>Oct. 27, 1971</td>
<td>Speech to the Washington Club, entitled “Exploration of the Earth, the Moon and the Universe”</td>
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<tr>
<td>39</td>
<td>July 15, 1971</td>
<td>Speech upon the presentation of Apollo LM-2 to the Smithsonian Institution, includes program and photographs</td>
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<td>Dr.D</td>
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<td>Apr. 2, 1971</td>
<td>Presentation to Space Program Advisory Committees, entitled “The Management of Apollo”</td>
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<td>41</td>
<td>Mar. 8, 1971</td>
<td>Speech at NASA Houston Awards Ceremony, entitled “The Management of Apollo”</td>
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<td>Speech at Seminar on Science and Public Policy, Council for the Advancement of Science Writing, entitled “International Aspects of Our Space Program”</td>
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<td>Speech at Eighth Annual Briefing on New Horizons in Science, Council for the Advancement of Science Writing, entitled “International Aspects of Our Space Program”</td>
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<td>Presentations at NASA 12th Annual Honor Awards Ceremony, entitled “The Impact of Man and His Environment on the”</td>
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| 9   | Sept. 23, 1970| Speech to Franklin Institute, Acceptance of Vermilye Medal for NASA,\
<p>|     |            | oversized Vermilye Medal Proclamation                                |
| 10  | Sept. 22, 1970| Remarks to Federal Management Improvement Conference                   |
| 11  | May 2, 1970 | Speech at ARCS Annual Scholarship Awards Banquet                       |
| 12  | Feb. 7, 1970 | Speech to RPI Midwinter Reunion                                       |
| 13  | Dec. 15, 1969| Speech at Lewis Research Center                                        |
| 16  | Oct. 16, 1969| Speech at MSC Awards Ceremony                                           |
| 17  | June 15, 1969| Speech at University of Florida Commencement                            |
| 19  | Jan. 21, 1969| Speech at American Institute of Aeronautics and Astronautics Honors Banquet, Jan. 21, 1969 includes accompanying photographs |
|     |            | 16mm film to accompany the speech, color footage of the flight of Apollo 8 |
| 21  | June 15-17, 1966| Presentations at “The Impact of Space Exploration on Teacher Education Programs” , University of Houston, June 15-17, 1966 |
| 23  | Dec. 30, 1965| Presentation at Gemini VI/VII Awards Ceremony                           |</p>
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<td>24 Presentation to Alvin Teachers' Association (Houston), Nov. 9, 1965</td>
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<td>26 Presentation at Cost Reduction Seminar, Houston, Sept. 16, 1965</td>
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<td></td>
<td>27 Presentation at U.S. Air Force Academy, Sept. 10, 1965</td>
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<td>28 Presentation to Cryogenic Engineering Conference, Rice University, Aug. 23, 1965</td>
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<tr>
<td></td>
<td>29 Presentation to 50th Anniversary Banquet, Texas Society of Certified Public Accountants, May 28, 1965 includes a certificate of appreciation</td>
</tr>
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<td></td>
<td>30 Talk at RPI, May 11, 1965</td>
</tr>
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<td></td>
<td>31 Presentation to National Telemetering Conference, Apr. 13, 1965</td>
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<td></td>
<td>32 Presentation to National Security Industrial Association, New York Chapter, Oct. 28, 1964</td>
</tr>
<tr>
<td></td>
<td>33 Speech to American Institute of Aeronautics and Astronautics Cleveland Section, Oct. 22, 1964</td>
</tr>
<tr>
<td></td>
<td>34 Presentation to Space Sciences Management Committee, [June] 1964</td>
</tr>
<tr>
<td></td>
<td>35 Speech before North Carolina National Guard Association, Apr. 18, 1964</td>
</tr>
<tr>
<td>126</td>
<td>1 Speech to Second NASA-Industry Program Plans Conference, Feb. 11, 1963 entitled “Manned Spacecraft and Flight Missions,” includes photocopies of materials used as accompanying slides</td>
</tr>
<tr>
<td></td>
<td>2 Presentation at Space Science Fair, Cleveland, Nov. 27, 1962</td>
</tr>
<tr>
<td></td>
<td>3 Presentation to Second National Conference on the Peaceful Uses of Space, May 9, 1962 entitled “Project Apollo”</td>
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<tr>
<td>No.</td>
<td>Speech/Event Details</td>
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<tr>
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</table>
| 126 | Speech before Institute of Aerospace Sciences, Apr. 30, 1962  
entitled “Organizing for the Conquest of Space” |
| 5   | Presentation to Institute of the Aerospace Sciences, National Flight  
Propulsion Meeting, Mar. 8, 1962  
entitled “Project Apollo” |
| 6   | Presentation to the National Aeronautics Association Convention,  
Sept. 12, 1961  
| 7   | Presentation to First National Conference on the Peaceful Uses of Space,  
May 26, 1961  
entitled “Manned Space Flight” |
| 8   | Speech before United Press International Editors Conference,  
Sept. 9, 1960  
entitled “Project Mercury Progress” |
| 9   | Presentation to NASA/Industry Conference, July 28, 1960  
entitled “Manned Space Flight” |
| 10  | Speech to the Round Table, St. Louis, Jan. 19, 1960 |
| 11  | Speech to American Petroleum Institute, Division of  
Transportation, Nov. 9, 1959 |
| 12  | Miscellaneous Presentations, Briefing Papers and Reports, 1966-1976  
Outlines of meeting presentations, and drafts of statements authored  
by GML for others, primarily regarding the Space Shuttle, program  
reductions and reorganization |
|     | b. Press Statements  
13  | Press Statements, 1969-1974  
Statements, drafts, telegrams and miscellaneous correspondence  
regarding American and Soviet flights |
| 14  | Press Clippings quoting GML, 1969-1976 |
|     | c. Interviews  
15  | Interviews and Articles quoting GML, 1971-1976 |
| 127 | Interviews and Articles quoting GML, 1967-1970  
GML interviews regarding management of the Apollo Program  
(1971), NASA’s early years, and the Gemini and Apollo 204  
missions (1967, 1969); also includes copies of articles,  
correspondence and background information for interviews |
3. Publications and Miscellaneous Reports

_Apollo Expeditions to the Moon:_

127 2-3 Drafts for GML's Chapter, 1974-1975
includes comments on the drafts and miscellaneous correspondence

4-5 Notes and Correspondence, 1974-1977
includes drafts and comments on other chapters, etc.

6 _Astronautics and Aeronautics_ Articles, 1969-1971
drafts and correspondence relating to GML's articles on Skylab and Apollo

128 1 _Encyclopedia Brittanica_, Articles and Background Materials, 1964-1969
regarding GML's entries for “Space Exploration: Manned Space Flight”

2 Miscellaneous Papers by GML, 1962, 1969
written for “Results of the First U.S. Manned Orbital Space Flight,” and the American Institute of Aeronautics and Astronautics 6th Annual Meeting and Technical Display

3 Collected Material for GML Publications, 1969-1976
miscellaneous articles and correspondence

I. Awards, Honors and Ceremonies

Box Folder

128 4 NASA GML Portrait Unveiling, Jan. 14, 1977
guest lists, photograph and correspondence regarding the portrait and the ceremony

5 NASA Retirement Party, May 26, 1976
guest lists, GML's remarks, a list of gifts, thank you letters and miscellaneous correspondence regarding the party; additional materials may be found in NASA Administrative and General Apollo Files under Resignation

6-7 Rockefeller Public Service Award, Woodrow Wilson School of Public and International Affairs, Dec. 4, 1974
GML's remarks, and related correspondence, press releases and clippings
<p>| | | |</p>
<table>
<thead>
<tr>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>129</td>
<td>1-2</td>
<td>photographs of the ceremony</td>
</tr>
<tr>
<td>3</td>
<td>National Civil Service League Award, May 4, 1973</td>
<td>primarily congratulatory correspondence and photographs of the ceremony</td>
</tr>
<tr>
<td>4</td>
<td>Robert H. Goddard Award, National Space Club, Mar. 9, 1973</td>
<td>GML's remarks, programs and photographs of the ceremony, related correspondence, and background materials on Robert H. Goddard</td>
</tr>
<tr>
<td>5</td>
<td>Astronautics Engineer Award, National Space Club, Mar. 18, 1970</td>
<td>primarily congratulatory correspondence</td>
</tr>
<tr>
<td>7</td>
<td>Apollo 11 Dinner, Aug. 13, 1969</td>
<td>Dr.D 1 Apollo 11 Dinner, Aug. 13, 1969 (oversize) collected materials such as a menu, program, plaque, etc.</td>
</tr>
<tr>
<td>129</td>
<td>8</td>
<td>Honorary Degree, University of Florida, June 10, 1969 citation, commencement program and photograph, GML's remarks may be found in NASA Speeches, Statements and Presentations</td>
</tr>
<tr>
<td>9</td>
<td>Paul T. Johns Trophy, Arnold Air Society, April 1, 1969 program and photographs of the ceremony, and related correspondence</td>
<td></td>
</tr>
<tr>
<td>130</td>
<td>1</td>
<td>NASA Achievement and Service Certificates, 1963-1973</td>
</tr>
<tr>
<td>149</td>
<td>10</td>
<td>Miscellaneous Certificates and Nominations, 1958, 1975 (legalsize papers)</td>
</tr>
</tbody>
</table>

**J. Collected Materials**

1. **File of the Day**

   **Box**   **Folder**   **File of the Day, June 1976**

   includes GML's farewell visits to the Kennedy Space Center, Marshall Space Flight Center, and Johnson Space Center (?), and the Dryden Flight Research Center dedication
130 4 File of the Day, Jan.-May 1976
   includes GML's visit to Morton Thiokol, and the visits
to NASA facilities of Hubert Humphrey, Lyndon B. Johnson,
and foreign dignitaries

5 File of the Day, 1975
   includes the visits to NASA facilities of Pres. Anwar Sadat,
   and Senators Garn and Ford

   includes Kurt Debus' farewell party, and the presentation of
   a space crystal to Pres. Gerald Ford

131 1 File of the Day, June-Sept. 1974
   includes the cosmonauts and astronauts' visit to the White
   House, GML's trip to Senegal, and a card autographed by
   Gerald R. Ford (n.d.)

2 File of the Day, Apr.-June 1974
   includes a Skylab splashdown party, and the Northrup Corp.'s
   roll out ceremonies for the U.S.A.F. YF-17 fighter prototype

3 File of the Day, Jan.-Mar. 1974
   includes Homer Newell's retirement party, Pres. Nixon's presenta-
   tion of awards to the Skylab 4 crew, and a visit to
   Downey to view the Space Shuttle

   includes a visit to Wallops Station, NASA's 15th
   anniversary party, and the first flight of the X-24B

5 File of the Day, July-Aug. 1973
   includes Boeing Skylab Flight Awareness Receptions, and
   the mission control center and solar shield deployment training
   of Skylabs 1 and 2

6 File of the Day, Feb.-June 1973
   includes the American Institute of Aeronautics and Astronautics
   awards dinner, Apollo 17 awards ceremony, and a Boeing Flight
   Awareness Reception

132 1 File of the Day, Jan. 1973
   includes M.V. Keldysh's visit to Houston

includes the Space Shuttle Sortie Workshop, and an Apollo-Soyuz Test Project press conference with Boris N. Petrov in Houston

132  3  File of the Day, Jan.-June 1972
      includes Robert Gilruth's retirement party, and the Western White House Space Shuttle decision

Dr.D  1  File of the Day, Jan. 5, 1972 (oversize)
      the Western White House Space Shuttle decision

      includes Dr. Charles Berry's farewell party, NASA's Annual Honor Awards ceremony, and Apollo 15 awards ceremony

Dr.D  1  File of the Day, July 13-20, 1971 (oversize)
      includes a National Moon Walk Day Proclamation (TDS Richard Nixon 20 July 1971), and photographs of Yuri Gagarin

132  5  File of the Day, Apr.-June 1971
      includes the unveiling of Robert Seaman's portrait, the presentation of the Explorers Club Medal to GML, and contingency plans in case of civil disturbance

133  1  File of the Day, Jan.-Mar. 1971
      includes a visit to Martin Marietta Corp.


3     File of the Day, Apr.-June 1970
      includes the dedication of the Life Support Technology Laboratory at Langley Research Center

      includes a visit to the Jet Propulsion Laboratory, and Pres. Georges Pompidou's visit to the Kennedy Space Center

Dr.D  1  File of the Day, Feb. 16, 1970 (oversize)
      the National Geographic Society's presentation of the Hubbard Medal to the crew of Apollo 11

      includes the Manned Spacecraft Center's farewell party for GML, Abe Silverstein's retirement party, and Apollo 12 lunar surface photographs
### 1. File of the Day, Jan. 31, 1970
- 16 glass slides
- Slides used at the Manned Spacecraft Center's farewell party for GML, contains an array of shots of GML's life

### 2. Scrapbooks

<table>
<thead>
<tr>
<th>File Number</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>133 6</td>
<td>Scrapbook, May-Oct. 1969</td>
<td>Includes GML's appointment as NASA Deputy Administrator and his receipt of an RPI honorary degree, and the flights of Apollo 10 and 11</td>
</tr>
<tr>
<td>134 1</td>
<td>Scrapbook, Jan.-Apr. 1969</td>
<td>Includes the Apollo 9 mission control center, and the Alfalfa Club annual dinner</td>
</tr>
<tr>
<td>149 11</td>
<td>Scrapbook, Jan. 1969 (oversize papers)</td>
<td>Includes the Alfalfa Club annual dinner</td>
</tr>
<tr>
<td>134 2</td>
<td>Scrapbook, Dec. 1968</td>
<td>Includes the flight of Apollo 8</td>
</tr>
<tr>
<td>3</td>
<td>Scrapbook, July-Nov. 1968</td>
<td>Includes photographs of the astronauts of Apollo 7</td>
</tr>
<tr>
<td>5</td>
<td>Scrapbook, 1959-61</td>
<td>Includes preparation of a Mercury spacecraft</td>
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</table>

### 3. Photograph Albums and Files

<table>
<thead>
<tr>
<th>File Number</th>
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<th>Details</th>
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<tr>
<td>6</td>
<td>Photograph File, n.d.</td>
<td>Includes miscellaneous awards, meetings, etc.</td>
</tr>
<tr>
<td>Dr.D 3</td>
<td>Photograph File, n.d. (oversize)</td>
<td>Includes GML portraits, mission control center during a miscellaneous flight, and a shot of earth taken by Voyager</td>
</tr>
<tr>
<td>Dr.D 3</td>
<td>Photograph File, 1975 (oversize)</td>
<td></td>
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</tbody>
</table>
contains inscribed and autographed shots of Soyuz cosmonauts and spacecraft launches

134 7 Photograph Album, Oct. 1972, Centaur Tenth Anniversary

8 Photograph Album, 1971, Soviet Souvenir Album

features facilities at Star City, cosmonauts, and equipment

135 1 Photograph File, 1971

includes Jim Long's farewell party, a meeting at Hawker Siddeley Aviation, Ltd., the NOAA/NASA award, and the astronauts, launch and mission control center of Apollo 14

2 Photograph File, 1970

includes presentation of the NASA Distinguished Service Medal to Neil Armstrong, the swearing-in of Julian West, and the viewing of an eclipse at Wallops Station

Dr.D 2 Photograph File, 1970 (oversize)

contains an autographed shot of the Wallops Planning Conference attendees

135 3 Photograph File, Jan. 1970

soiled and damaged Apollo 12 spacesuits

4 Photograph File, July-Dec. 1969

includes GML portraits, GML's swearing-in by Thomas O. Paine, North American Rockwell awards ceremony, and Apollo 11 mission control center, firing room and autographed portrait of the crew

5 Photograph File, Jan.-June 1969

includes awards to the Resident Apollo Spacecraft Program Office at Bethpage

6 Photograph File, 1968

includes the 2TV-1 manned space simulation test, Apollo 6 mission control center, and Lyndon Johnson's visit to the Manned Spacecraft Center

7 Photograph File, Aug.-Dec. 1967

includes the Apollo 4 Command Module at North American Rockwell, and Spacecraft 101 damaged insulation

8 Photograph File, ca. July 1967

Lunar Test Article-5D post fire

9 Photograph File, ca. July 1967

Lunar Test Article-5D heat exchanger

10 Photograph File, June-Aug. 1967
Lunar Test Article-8 panels after fire protection rework

North American Downey’s improved tools, hardware and control charts for manufacture and testing of spacecraft

136  1  Photograph File, Apr. 14, 1967  
Lunar Module EL panels
2  Photograph File, Mar.-May 1967  
Lunar Test Article-8
3  Photograph File, Mar.-June 1967  
Lunar Module assembly at Grumman Aircraft Engineering Corp.
4  Photograph File, Feb.-Apr. 1967  
Spacecraft 017 wiring
5  Photograph File, Jan.-July 1967  
includes a visit to AC Electronics, and Prince Juan Carlos and Princess Sophie of Spain's tour of the Manned Spacecraft Center
6  Photograph File, 1967  
EL panels
7  Photograph File, 1967  
circuit breaker tests
8  Photograph File, 1967  
gyro end cap
9  Photograph File, ca. 1967  
miscellaneous hardware problems

Dr.D  2  Photograph File, ca. 1967 (oversize)  
a Gemini spacecraft with copies of astronauts' autographs

136  10  Photograph File, June-Dec. 1966  
includes images relating to Gemini IX-XI

137  1  Photograph File, July-Oct. 1966  
Lunar Module DFI harness
2  Photograph File, Mar.-Apr. 1966  
includes docking manoeuvres of a miscellaneous Gemini flight, and the visits to the Manned Spacecraft Center of Mrs. Cornelius Vanderbilt Whitney and Prince Philip of the United Kingdom
3  Photograph File, Jan.-Mar. 1966  
includes the visit of Federal Mediation and Conciliation Service
officials to the Manned Spacecraft Center, presentation of the U.S. Navy Air Medal to Roger Chaffee, and the recovery of the Gemini VII crew

137 4 Photograph File, Dec. 1965
   Gemini VI and VII mission control center, rendezvous, recovery, etc.

5 Photograph File, Aug.-Nov. 1965
   includes visits to the Manned Spacecraft Center of Rep. George Miller and Chinese defense officials, the Gemini V flight, and testing of Apollo spacecraft and equipment

6-7 Photograph File, June-Aug. 1965
   includes GML portraits, visits to the Manned Spacecraft Center of James Webb, Hubert Humphrey, and John W. Macy, and Gemini IV-V mission control, training, etc.

8 Photograph File, Jan.-June 1965
   includes Gemini III training, and Lunar Module testing

Dr.D 2 Photograph File, 1965 (oversize)
   Pres. Lyndon B. Johnson giving a speech at the Manned Spacecraft Center

137 9 Photograph File, ca. 1965
   includes a miscellaneous awards ceremony

138 1 Photograph File, 1964
   includes the Senior Management Indocrrination Seminar, a Gemini boilerplate recovery test, and Rep. Albert Thomas' visit to the Manned Spacecraft Center

Dr.D 2 Photograph File, 1963 (oversize)
   Pres. John Kennedy's visit to Cape Canaveral

138 2 Photograph File, 1962-1963
   includes the visits of Pres. John Kennedy and the House Space Committee to Cape Canaveral, and a factory inspection

K. Miscellaneous Papers

Box Folder
   presentations, reports, drawings, etc. regarding the Saturn launch
vehicle, and spacecraft design and configuration

Courses Attended:

<table>
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<tr>
<th>Code</th>
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<tr>
<td>138</td>
<td>4</td>
<td>Russian Language, 1972</td>
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<td>correspondence, memoranda and forms regarding the class</td>
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<td>5-6</td>
<td>Space Technology, 1958-1959</td>
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<td></td>
<td>lecture synopses</td>
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<tr>
<td></td>
<td></td>
<td>a chart of the Saturn V flight configuration, a humorous vocabulary list, etc.</td>
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</tbody>
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Series V, LATER NASA PAPERS, 1976-1984

Boxes 138-143

A. Correspondence
B. Reagan Transition Team Papers
C. Miscellaneous Papers

Oversize photographs and papers are located in Archives map case drawer

D.

A. Correspondence

<table>
<thead>
<tr>
<th>Box</th>
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<td>Oct.-Dec. 1976</td>
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<td>3</td>
<td>June-Sept. 1976</td>
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</table>
B. Reagan Transition Team Papers

1. Reports and Drafts

140
4  Final Transition Team Report
   includes a photograph of Team members
5  Report of the Transition Team, Drafts and Outlines
   some drafts include GML's annotations

141
1  Interim Reports and Actions
   reports of the Team's work made to Transition Headquarters, and
   reports which the Team requested from NASA
2  GML Notes and Drafts
   notes from meetings, notes on report drafts, drafts of review
   and action papers, etc.

2. Correspondence

3  General Correspondence, Feb.-Mar., 1981
4  General Correspondence, Jan. 8-Jan. 31, 1981
5  General Correspondence, Jan. 1-Jan. 7, 1981
6  General Correspondence, Nov.-Dec., 1980
   correspondence left with the NASA Administrator Designate regarding
   future programs, information forwarded from NASA for the Team's use,
   Team membership lists, letter of appreciation from Pres. Ronald
   Reagan (TLS 22 Dec. 1980), etc.
7  Corresp. with Transition Hqs.: Action Lists Papers
8  Budget Cuts
9  Personnel
   instructions from Transition Headquarters, interim Team reports, etc.

3. Background Material

   primarily collected reports, briefing charts, and correspondence
10 Administrator
   includes GML's list of preferred qualities in a NASA Administrator
   and Deputy Administrator, and ranking of potential candidates
11 Aeronautics and Space Engineering Board
12 Davis-Bacon Act
13 International Space Activities
142
1 Long Range Planning
2 Project Management
3 Remote Sensing
4 Space Applications Board
5 Space Science Board
6 Space Shuttle
   includes GML's notes from a meeting regarding the Shuttle
7 Publications and Bibliography

4. Miscellaneous
8 NASA General and Miscellaneous Documents
   statistics, memoranda, and miscellaneous papers regarding the
   NASA budget, employment, management, etc.
9 Newspaper and Magazine Articles
   primarily pertaining to aerospace projects
10 Organizational Documents
   lists, schedules, etc. regarding Transition organization, events,
   and report formats
11 Outside Inputs
   primarily correspondence and reports from members of universi-
   ties, industry, NASA and Congress regarding NASA's programs
   and the future of the aerospace effort

C. Miscellaneous Papers
12 Applicants Referred to NASA, 1976-1977
   correspondence regarding GML's referrals
13 Collected Remarks and Statements, 1976-1977
   primarily made by NASA personnel regarding the agency's
   policy issues, budget, programs, etc.
   photographs, pamphlets and miscellaneous papers regarding the
   NACA reunion (1976), the Space Shuttle rollout (1976), President
   Carter's presentation of the Congressional Space Medal of Honor
   (1978), the NASA Administrators alumni meeting (1980), etc.
143  1  Gifts to GML, 1976-1978
Dr. D  4  Gifts to GML, 1977 (oversize)
       primarily correspondence regarding gifts received
143  2  Information Search on NASA-Syracuse Univ. Grant, 1977
Meeting Files:
     contains correspondence resulting from Jan.-Feb. 1978 meetings
4    NASA Institutional Assessment, Washington, DC, Feb. 6, 1978
     correspondence and briefing charts
5    Space Shuttle Systems Engineering Overview, Houston,
     July 26-29, 1977
     includes correspondence and notes
6    West Coast Shuttle Review, Feb. 15-19, 1977
     includes GML's notes, a report on Shuttle safety concerns, etc.
7    NASA Silver Anniversary, May-Aug. 1983
     correspondence and miscellaneous papers regarding the celebration
     organized by the Fund for Higher Education; GML did not attend
     but was on the anniversary committee
8    Press Statements on the Space Program, 1976-1983
     made by GML
10   Three Mile Island, Apr.-Sept. 1979
     notes, outline and copy of GML's statement at the 1979
     Congressional Hearings on Nuclear Reactor Safety; also
     collected reports, articles and statements
Series VI, PERSONAL RPI PRESIDENTIAL PAPERS, 1976-1984

Boxes 143-148

A. Correspondence
B. Calendars
C. Speeches and Presentations
D. Awards and Honors
E. Miscellaneous Papers

An audio tape relating to miscellaneous papers is located in Archives map case drawer D.

A. Correspondence

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<th>Description</th>
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<tr>
<td>143</td>
<td>11</td>
<td>Congratulatory Correspondence, June 1976-Mar. 1977</td>
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<td>Congratulatory Correspondence, May 1976</td>
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<td>144</td>
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<td>Congratulatory Correspondence, Apr. 8-Apr. 30, 1976</td>
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<td>Congratulatory Correspondence, Apr. 1-Apr. 7, 1976</td>
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<td>Congratulatory Correspondence, Mar. 31, 1976</td>
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<td>4</td>
<td>Congratulatory Correspondence, Mar. 20-Mar. 30, 1976</td>
</tr>
</tbody>
</table>

B. Calendars

144  5  Calendars, 1979-1983 (5 volumes)

C. Speeches and Statements

1. Speeches and Presentations
these files may contain notes, outlines, drafts, reading copies, speech reprints and/or memoranda with suggested remarks; included are such events as: GML's inauguration, Rensselaer Technology Park ground breaking, dedications of RPI buildings, U.S. House Hearings on Nuclear Reactor Safety, and engineering society conferences

6  RPI Speeches, Index
7  Remarks to RPI Faculty, Dec. 8, 1981
8  Remarks to RPI Exempt Staff, Dec. 8, 1981
9  Remarks to RPI General Faculty Meeting, Dec. 8, 1981
10 Remarks to RPI Nonexempt Staff, Dec. 8, 1981
11 Presentation to Coalition of Northeastern Governors, Dec. 6, 1981
   at the Northeast Economic Summit Meeting, Panel on Technology, Capital and Business Development
12 Lecture at Union College, Nov. 30, 1981
13 Remarks at RPI Campus Campaign Celebration, Oct. 21, 1981
15 Remarks at RPI Parents Weekend Candlelight Dinner, Oct. 17, 1981

145  1  Speech to General Electric Corporate Officers Meeting, Oct. 6, 1981
   entitled “The Human Side of Quality”
3  Remarks at Rensselaer Technology Center Ground Breaking Ceremony, Sept. 24, 1981
4  Remarks at Troy High Technology Open House, Sept. 24, 1981
5  Speech to Albany Area Chamber of Commerce, Sept. 24, 1981
6 Remarks at RPI Freshman Convocation, Sept. 7, 1981
7 Speech before Albany Rotary Club, Aug. 20, 1981
   entitled “Technology in the Capital District”
8 Remarks at RPI Freshman Orientation, June 28, 1981
9 Speech before General Electric Conference on Technical
   Management, June 2, 1981
   entitled “The Human Side of Quality”
10 Hartwick College Commencement Address, May 31, 1981
   entitled “The Return to Quality”
11 Speech before Association of Government Accountants,
   May 27, 1981
   entitled “Technology in the Capital District,” includes a citation
   given to GML
12 Remarks at Emma Willard History Colloquium, May 12, 1981
   includes a resolution regarding Principal’s Play Day
13 Remarks at RPI ROTC Awards Ceremony, Apr. 18, 1981
14 Remarks on “The State of the Arts at RPI” and Remarks
   to Alpha Phi Omega, Mar. 30, 1981
15 Lecture to Professional Leadership Program, Mar. 24, 1981
16 Remarks at WRPI Call-In Show, Mar. 4, 1981
17 Remarks at Patroon Luncheon (Florida), Feb. 19, 1981
18 Speech to Patroons (Florida), Feb. 18, 1981
19 Speech at Albany International Management Meeting,
   Feb. 14, 1981
20 Speech to RPI Scuba Club, Feb. 12, 1981
21 Speech to Financial Executives Institute, Feb. 9, 1981
22 Vollmer Fries Lecture, Feb. 4, 1981
   entitled “Improving Aircraft Safety,” regarding the work of the
   Committee on FAA Airworthiness Certification Procedures
23 Roy V. Wright Lecture, American Society of Mechanical
   Engineers (ASME), Nov. 19, 1980
24 Speech before National Academy of Engineering,
   Oct. 30, 1980
25 Keynote Address to Rensselaer County Industrial Forum and
   Rensselaer County Industrial Development Agency,
   Oct. 21, 1980
26 Remarks at Patroon Dinner, Oct. 4, 1980
Remarks at RPI Freshman Orientation, Aug. 30, 1980

Opening Remarks at National Academy of Science Committee on FAA Airworthiness Certification Procedures Press Conference, June 24, 1980

Speech to National Conference on Engineering Ethics, June 21, 1980

Lecture to Seminar on Urban Policy Studies, Apr. 3, 1980


Speech to New York State Education Department, Nov. 21, 1979 entitled “Research in the U.S.: A Partnership of Industry, University, and Government,” prepared for the Long Range Planning in Higher Education Meeting

Speech at 100th Anniversary of Upsilon Chapter of Delta Tau Delta, Nov. 10, 1979

Keynote Speech before National Alliance of Business, Nov. 9, 1979

Speech before National Academy of Engineering, Nov. 1, 1979 at the NAE annual meeting on “The Outlook for Nuclear Power”

Remarks at Community Service Awards, Oct. 14, 1979 includes an agenda of activities

Remarks at RPI Solar Collector Dedication, Oct. 14, 1979 includes an agenda of activities

Remarks at RPI Parents Weekend Dinner, Oct. 13, 1979

Remarks at RPI Pep Rally, Oct. 12, 1979 includes an agenda of activities, and statistics regarding RPI-Union College football games

Speech at Patroon Dinner, Oct. 5, 1979

Remarks at Alan M. Voorhees Computing Center Dedication, Oct. 5, 1979

Welcoming Remarks at Alan M. Voorhees Lecture, Oct. 4, 1979

Remarks at RPI External Affairs Luncheon, Sept. 4, 1979

Remarks at RPI Freshman Orientation, Sept. 1, 1979

Editorial from Christian Science Monitor, Aug. 29, 1979 entitled “Ten Years After Apollo”

Remarks by Michael Collins on Tenth Anniversary of Lunar Landing, July 20, 1979
47 Statement before House Committee on Science and Technology, Subcommittee on Energy Research and Production, for Hearings on Nuclear Reactor Safety, May 24, 1979

48 Speech to Capital District Chamber of Commerce, Apr. 19, 1979 entitled “Innovation and Productivity”

49 Remarks at RPI ROTC Awards Ceremony, Apr. 7, 1979

50 Remarks to RPI Seminar for Prospective Science Students, Apr. 7, 1979

51 Lecture to Prof. Alan S. Meltzer's Class, Apr. 7, 1979 includes only a list of slides used

52 Speech to Patroon Luncheon (Florida), Feb. 20, 1979


54 Remarks at Commission on Independent Colleges and Universities (clcu) Breakfast with New York Congressmen, Jan. 6, 1979

55 Speech before National Academy of Engineering, Nov. 1, 1978 entitled “The National Climate for Innovation,” upon receiving the NAE’s Founder’s Medal


57 Remarks at RPI Robison Vehicle Dedication and Luncheon, Oct. 11, 1978 includes agenda of activities

58 Remarks at RPI Trustee-Council Dinner, Oct. 6, 1978 includes remarks regarding Ellis Robison's gift to RPI

59 Remarks at Dedication of RPI Water Sculpture, Oct. 6, 1978

60 Speech at RPI Freshman Orientation, Aug. 30, 1978

61 Welcome to Students in RPI Preface Program, July 17, 1978 includes schedule and list of students

62 Commencement Address at Shaker High School, June 24, 1978, and Lansingburgh High School, June 25, 1978

63 Speech at NYSPE Installation Banquet, June 2, 1978

64 Speech on “State of the University”, May 2 & 4, 1978
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<td>9</td>
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<td></td>
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<td>Speech at Institute of Electrical and Electronics Engineers (IEEE) International Conference on Plasma Science</td>
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VI. Personal RPI Presidential Papers

146 21 Speech at James C. Fletcher's NASA Farewell, May 5, 1977
22 Remarks at RPI Faculty Recognition Dinner, Apr. 21, 1977
23 Speech before Troy Memorial Methodist Church Men's Club, Apr. 17, 1977
24 Speech to RPI Dive Club, Apr. 4, 1977
25 Speech at RPI ROTC Awards Ceremony, Apr. 2, 1977
26 Speech before American Society of Mechanical Engineers (ASME) Hudson-Mohawk Chapter, Mar. 30, 1977
   entitled “Our Future in Space,” includes lists of slides and attendees
27 Speech on “State of the University”, Mar. 29, 1977
   includes budget figures for FY 1977 and five year budget forecast figures
28 Lecture to RPI Management Seminar, Mar. 17, 1977
   regarding NASA management
29 Speech at Pi Kappa Alpha Founders Day, Mar. 5, 1977
   includes collected information regarding RPI in 1868, and a Pi Kappa Alpha founder's day kit
31 Speech before New York State Society of Professional Engineers, Feb. 25, 1977
32 Speech to RPI Women's Club, Feb. 10, 1977
33 Speech before General Electric Co. Elfun Society, Jan. 28, 1977
   entitled “The Space Age and Technical Education”
34 Speech before Combined Service Clubs of Troy, Jan. 20, 1977
   includes list of slides used, certificates and letters of appreciation
35 Industrial Psychology Lecture, Nov. 16, 1976
36 Speech at Festival of Religion and the Arts, Nov. 2, 1976
   entitled “The Future of Technology”
37 Speech to Newman Foundation Committee of 100, Oct. 22, 1976
38 Dedication Address at the University of Texas at Dallas, Oct. 18, 1976
   includes class syllabus and bibliography
40 Remarks at RPI Council Breakfast, Oct. 8, 1976
VI. Personal RPI Presidential Papers

146 41 RPI Inaugural Address, Oct. 8, 1976
42 Opening Remarks at Second International Symposium on
   Amorphous Magnetism, Aug. 25, 1976
   includes program and list of participants
43 Concluding Remarks at Folsom Library Dedication, May 15, 1976
44 Introduction of Walter Cronkite at RPI Commencement, May 14, 1976
   includes article and cartoons regarding Cronkite and the aerospace
   program

2. Press Statements
45 Press Statements, 1976-1980
   regarding RPI or technology issues

D. Awards and Honors

147 1-2 Honorary Degree, Albany Medical College, awarded May 24, 1984,
   presented June 25, 1984
   includes degree, citation, related correspondence, etc.
3 Executive of the Year Award, Capital District Business Review,
   Nov. 12, 1983
   contains correspondence and miscellaneous papers
4 Citizen Laureate Award, SUNY Albany, June 11, 1983
   contains correspondence, GML's remarks, etc.
5 National Engineering Award, American Association of Engineering
   Societies (AAES), May 4, 1983
   includes GML's remarks, correspondence, programs of the AAES
   Engineering Leadership Conference and Awards Ceremony, etc.
6 Honorary Degree, Villanova University, May 16, 1982
   contains citation, GML's remarks, photographs, correspondence, etc.
7 Austrian Cross of Honor for Science and Art, Sept. 30, 1980
   includes correspondence and news releases

E. Miscellaneous Papers

8 Books Received, 1976-1979
   primarily correspondence and memoranda regarding books
   purchased by or given to GML
includes statistics on institutions offering engineering degrees,
and a study on the demand for engineers

Courses Attended:
Einstein Personnel Selection Clinic, 1981

class materials, GML's exercises and class notes, collected materials
audio tape for class exercise

Microcomputers and Microprocessors for Executives, 1978

Microcomputers and Microprocessors for Executives, 1978
primarily class materials

primarily photographs and clippings documenting such events
as: RPI commencements (1976, 1977), dedication of the Folsom
Library (1976), and a visit to the Fresh Water Institute (1976)

Gifts to GML, 1976-1979
correspondence regarding gifts received

Photographs, 1976-1984
Series VII, LIBRARY

Boxes 152-164 and shelved volumes

A. Annotated Volumes
B. Publications and Reports

All items are located in closed stacks, and must be paged through the Archivist. Works are shelved, except for small or loose-leaf items which have been foldered and boxed. Citations of the latter are followed by a box indicator.

A. Annotated Volumes
contains a variety of publications collected and annotated by GML from his RPI student years through his tenure as RPI President; books used by GML in his RPI classes may include annotations made by other students; volumes concerning higher education may contain the annotations of RPI Presidents who preceded GML


*Congressional Record*. 31 Jan. 1968. (Box 152)


*Technology: Abandon, Endure or Advance?* Chicago: Gould, Inc., n.d. (Box 152)


**B. Publications and Reports**

these materials were judged to be more difficult for the researcher to obtain; included are: Soviet publications, materials published by NASA centers, operations and systems handbooks, contractor reports, industry pamphlets and publications, pre-publication drafts, etc.


*Amerika*. 162 (April 1970). (Dr. D)

[Apollo Spacecraft Sticker/Information Sheet]. N.p.: RCA, n.d. (Box 153)


Berry, Charles A. "Perspectives on Apollo." Photocopy of a book chapter draft, 1975. (Box 153)

Common Functions of Mach Numbers and Tables in Which They are Listed. N.p.: n.p., n.d. (Box 153)


General Dynamics. Convair Division. Centaur D-1T. San Diego: General Dynamics Convair Division, n.d. (Box 153)

General Electric Co. ...for the benefit of all mankind. N.p.: General Electric, n.d. (Box 153)


Hinners, Noel W. “Statement before Senate Subcommittee on Science and Space.” Photocopy of draft, n.d. (Box 154)


*90 Days on Mars*. Denver: Martin Marietta Aerospace, 1974. (Box 155)


*Quasars, Pulsars, Black Holes...and HEAO's*. Redondo Beach, CA: TRW Systems Group, 1973. (Box 155)


[Snoopy Spaceflight Cartoons]. Photocopies, n.d. (Box 157)


VII. Library

---. NASA. *Charts to Accompany Testimony for Presentation before the Subcommittee on Space Science and Applications*. Photocopy, [1978]. (Box 157)
---. ______. ______. *Uranus Exploration: Mariner Jupiter Uranus 1979*. [Pasadena, CA]: NASA, [1979]. (Box 158)
---. ______. Lewis Research Center. *Goals '78*. [Cleveland]: NASA, [1978]. (Box 158)
---. ______. ______. *Heat-Transfer Research Facilities at the Lewis Research Center*. Cleveland: NASA, n.d. (Box 158)
___ . _____ . Lewis Research Center. [Cleveland]: NASA, n.d. (Box 158)
___ . _____ . Apollo Spacecraft Flight Test Program Review. Parts I and II. Houston: NASA, 1966. (Box 159)
Summary of the Synchronous Meteorological Satellite Program. [Washington, D.C.]: NASA, 1967. (Box 161)


Summary of the Voyager Program. [Washington, D.C.]: NASA, 1967. (Box 161)


Series VIII, ARTIFACTS

Boxes 165-172

A. Models
B. Spacecraft Hardware
C. Mementos

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<tr>
<td>149</td>
<td>8</td>
<td>Latin American Tour, Oct. 1966, Scrapbook Items</td>
</tr>
<tr>
<td>149</td>
<td>9</td>
<td>Latin American Tour, Oct. 1966, Collected Clippings</td>
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<tr>
<td>149</td>
<td>10</td>
<td>NASA Awards, Honors and Ceremonies - Miscellaneous Certificates and Nominations, 1958, 1975 from the National Space Club, etc.</td>
</tr>
<tr>
<td>149</td>
<td>11</td>
<td>NASA Scrapbook - Jan. 1969 program from an Alfalfa Club dinner</td>
</tr>
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</table>
B. Oversize Papers

<table>
<thead>
<tr>
<th>Drawer</th>
<th>Folder</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>1</td>
</tr>
</tbody>
</table>

RPI Student Courses Attended -
- Applied Aircraft Design, Fall 1947, 5 drawings
- Aircraft Engines, Spring 1947, 1 drawing
- Elementary Aeronautical Laboratory, Spring 1944, 2 drawings

RPI Student Miscellaneous Papers -
- Delta Phi 1947 Group Photograph

Lewis Flight Propulsion Laboratory Pubns. and Reports -
- "Equations, Tables, and Charts for Compressible Flow", Report 1135, 1953

NASA Correspondence -

3 Chronological Files:
- Enclosure for Jan. 27, 1969 PA-9-1-54
- Enclosures for memorandum to M.A. Faget, Feb. 12, 1968, PA-8-2-35

Citizens' Correspondence: Enclosure for letter from F. Papiernikoff

4 NASA Administrative and General Apollo Files -

Commemorative Stamps:
- 4 cent Project Mercury, sheet of 50 in album
- 10 cent Pioneer Jupiter, Feb. 28, 1975, sheet of 50 in album, with correspondence to Hans Mark
- 10 cent Apollo-Soyuz, 1975, sheet of 27 in album, with correspondence to Gordon Morison
- 10 cent Mariner 10 Venus/Mercury, Apr. 4, 1975, sheet of 50 in album

5 MSC-Hq Mission Operations Relationships:
- Chart of Organizational and Functional Relationships

NASA Organization: Organization Charts, 1974

NASA Specific Flight Files -

6 Apollo 17: Preliminary EVA-I Traverse Map
- Preliminary EVA-II Traverse Map
- Preliminary EVA-III Traverse Map
- Geologic Atlas of the Moon, Taurus-Littrow-Apollo 17 (2 sheets)
- Taurus-Littrow LRV Traverses
- Mission Summary
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| C | 6 | Apollo 16: Preliminary EVA-I Traverse Map  
   Preliminary EVA-III Traverse Map  
Apollo 15: Preliminary Geologic Map of the  
   Appenine-Hadley Site  
   Preliminary Traverse Map of the  
   Appenine-Hadley Site  
   Preliminary EVA-I Traverse Map  
   Preliminary EVA-II Traverse Map  
   Preliminary EVA-III Traverse Map  
Apollo 14: Geologic Atlas of the Moon, Fra Mauro  
   Region-Apollo 14 (2 sheets with accompanying text)  
Apollo 13: Fra Mauro Region - Apollo 13  
   Fra Mauro Landing Site - Apollo 13  
   Preliminary Section to Accompany Geologic Map  
   of the Fra Mauro Landing Site Apollo 13  
Apollo 11: Unlabelled cylindrical map  
   Target of Opportunity Flight Chart  
Apollo 10: Copy of Apollo 10 Onboard Map  
Apollo 8: Apollo Lunar Flight Chart (ALF), Apollo Mission  
   8, Prototype  
Apollo 4: Apollo Mission Chart (AMC) 4 (Sheet 1 of 2 only)  
|   |   | NASA Tours and Trips -  
   African Trip, July 1974, GATE Ceremony, Senegal,  
   satellite photographs of earth  
|   |   | NASA Speeches, Statements and Presentations -  
   Franklin Institute, Acceptance of Vermilye Medal for NASA,  
   Vermilye Medal Proclamation, Sept. 23, 1970  
NASA Awards, Honors and Ceremonies -  
   Apollo 11 dinner program and first day cover  
NASA File of the Day -  
   Photograph of Western White House Space Shuttle Decision  
   Jan. 5, 1972, picturing GML, Fletcher and Pres. Nixon  
   National Moon Walk Day Proclamation, July 20, 1971  
   (TDS Richard Nixon)  
   Group of photographs of Yuri Gagarin, received at the Soviet  
   Embassy July 13, 1971  
|   |   |
Program of the National Geographic Society’s presentation of the Hubbard Medal to Armstrong, Aldrin and Collins, Feb. 16, 1970

NASA Photograph Files -

Pres. Kennedy’s visit to Cape Canaveral (3 shots), include GML, 1963

Pres. Johnson’s speech at Manned Spacecraft Center, Houston 1965

Gemini Spacecraft, with copies of astronauts’ signatures, ca. 1967

Wallops Planning Conference group photograph, autographed by participants, June 11-14, 1970

Soyuz launch (2 shots), one inscribed and autographed by Leonov and V. Kubasov Oct. 25, 1975, one autographed only

Soyuz astronauts (2 shots), inscribed and autographed by Leonov and V. Kubasov Oct. 25, 1975

Voyager photograph of earth, in folder, n.d.

GML portraits (2), n.d.

Launch Control Center, includes GML, n.d.

Later NASA File of the Day -

Photograph of test landing of the Space Shuttle, Sept. 23, 1977

Space Exploration Day Proclamation, July 20, 1976 (TDS Gerald R. Ford)

Photograph of painted portrait of James C. Fletcher, inscribed and autographed by the sitter, n.d.

Later NASA Gifts to GML -

Calligraphy by Mrs. Robert C. Seamans, Jr., enclosure to Mar. 28, 1977 letter

C. Audio-Visual Materials

NASA Administrative and General Apollo Files -

Appointment as Deputy Administrator, Dec. 3, 1969
audio tape of swearing-in ceremony, with remarks by GML, Thomas O. Paine, Robert Seamans and James Webb
NASA Specific Flight Files -

Drawer D  
Space Shuttle: “STS-1 Post Flight Press Conference,”  
16mm film presenting color footage of the flight, with  
commentary by the astronauts

Drawer D  
Apollo 11: “Touchdown Plus One: A Postscript to History,”  
narrated audio tape of the Apollo 11 flight, with remarks  
by GML, the astronauts, and others

Box 150  
Apollo 11: glass slide, July 1969, GML and Robert Gilruth  
with a box of lunar samples

NASA Presentations, Speeches and Statements -

Drawer D  
Speech to National Space Club, Sept. 4, 1975, audio tape  

Drawer D  
Speech before Royal Aeronautical Society, April 7, 1971,  
audio tape

Drawer D  
Speech at AIAA Honors Banquet, Jan. 21, 1969, 16mm film  
presenting color footage of the Apollo 8 flight

Box 150  
Speech at AIAA Honors Banquet, Jan. 21, 1969, glass slides  
of briefing charts, and photographs of the lunar and earth  
surfaces

Box 151  
Miscellaneous Presentation, ca. 1969, glass slides of  
brieing charts concerning spacecraft design and testing, and  
photographs of the lunar surface

NASA File of the Day -

Box 151  
Farewell Dinner for GML, Jan. 31, 1970, 16 glass slides  
presenting a review of GML’s life, includes images from  
his RPI student days, with Mary R. Low and his family, in  
the U.S. Army, at Lewis Flight Propulsion Laboratory, and  
at NASA

RPI Miscellaneous -

Drawer D  
Course Attended: Einstein Personnel Selection Clinic,  
audio tape, part of the class materials
LISTING OF ACIDIC AND DAMAGED ORIGINAL PAPERS

As part of the conservation activities performed on the George M. Low Papers, extremely acidic, unstable and damaged papers were photocopied onto acidfree paper. The following listing records those original documents which have been retained with the collection. Photocopies have been filed in the main body of the Papers.

<table>
<thead>
<tr>
<th>Box</th>
<th>Folder</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>173</td>
<td>1</td>
<td>Biographical Materials</td>
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<tr>
<td></td>
<td>2-3</td>
<td>RPI Student Course Notes</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>RPI Student Course Notes, Page from M.S. Thesis</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Lewis Flight Propulsion Laboratory Papers</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>NASA Citizens’ Correspondence</td>
</tr>
</tbody>
</table>
Appendix A. ACRONYMS AND ABBREVIATIONS

The following is a short, and by no means comprehensive, list of acronyms and abbreviations which appear frequently in the George M. Low Papers.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AACB</td>
<td>Aeronautics and Astronautics Coordinating Board</td>
</tr>
<tr>
<td>AAN</td>
<td>Apollo Action Note</td>
</tr>
<tr>
<td>AAP</td>
<td>Apollo Applications Program (renamed Skylab)</td>
</tr>
<tr>
<td>AAS</td>
<td>American Astronautical Society</td>
</tr>
<tr>
<td>ACUSNY</td>
<td>Association of Colleges and Universities of the State of New York</td>
</tr>
<tr>
<td>AGARD</td>
<td>Advisory Group for Aerospace Research and Development</td>
</tr>
<tr>
<td>AIAA</td>
<td>American Institute of Aeronautics and Astronautics</td>
</tr>
<tr>
<td>AIEC</td>
<td>Association of Independent Engineering Colleges</td>
</tr>
<tr>
<td>ALSEP</td>
<td>Apollo Lunar Surface Experiments Package</td>
</tr>
<tr>
<td>AOH</td>
<td>Apollo Operations Handbook</td>
</tr>
<tr>
<td>ARC</td>
<td>Ames Research Center</td>
</tr>
<tr>
<td>ASAP</td>
<td>Aerospace Safety Advisory Panel</td>
</tr>
<tr>
<td>ASEB</td>
<td>Aeronautics and Space Engineering Board</td>
</tr>
<tr>
<td>ASI</td>
<td>Automotive Sterling Engine</td>
</tr>
<tr>
<td>ASME</td>
<td>American Society of Mechanical Engineers</td>
</tr>
<tr>
<td>ASPO</td>
<td>Apollo Spacecraft Program Office</td>
</tr>
<tr>
<td>ASTP</td>
<td>Apollo-Soyuz Test Project</td>
</tr>
<tr>
<td>ATM</td>
<td>Apollo Telescope Mount</td>
</tr>
<tr>
<td>ATS</td>
<td>Applications Technology Satellite</td>
</tr>
<tr>
<td>BEST</td>
<td>Bicentennial Exposition on Science and Technology</td>
</tr>
<tr>
<td>BOB</td>
<td>Bureau of the Budget (later the Office of Management and Budget)</td>
</tr>
<tr>
<td>BP</td>
<td>Boilerplate</td>
</tr>
<tr>
<td>C/L</td>
<td>Checklist</td>
</tr>
<tr>
<td>CARR</td>
<td>Customer Acceptance Readiness Review</td>
</tr>
<tr>
<td>CCA</td>
<td>Contract Change Authorization</td>
</tr>
<tr>
<td>CCB</td>
<td>Configuration Control Board</td>
</tr>
<tr>
<td>CDR</td>
<td>Critical Design Review</td>
</tr>
<tr>
<td>CED</td>
<td>Committee for Economic Development</td>
</tr>
<tr>
<td>CICU</td>
<td>Commission on Independent Colleges and Universities</td>
</tr>
<tr>
<td>CM</td>
<td>Command Module</td>
</tr>
<tr>
<td>COSEPUP</td>
<td>Committee on Science, Engineering, and Public Policy</td>
</tr>
<tr>
<td>COSPAR</td>
<td>Committee on Space Research</td>
</tr>
<tr>
<td>CSC</td>
<td>Civil Service Commission</td>
</tr>
<tr>
<td>CSM</td>
<td>Command and Service Module</td>
</tr>
<tr>
<td>DCR</td>
<td>Design Certification Review</td>
</tr>
<tr>
<td>DEI</td>
<td>Design Engineering Inspection</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
<td>---------</td>
<td>-------------</td>
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<tr>
<td>DFI</td>
<td>Development Flight Instrumentation</td>
</tr>
<tr>
<td>DM</td>
<td>Docking Module</td>
</tr>
<tr>
<td>DOD</td>
<td>Department of Defense</td>
</tr>
<tr>
<td>DOI</td>
<td>Department of the Interior</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EASEP</td>
<td>Early Apollo Scientific Experiments Package</td>
</tr>
<tr>
<td>ECS</td>
<td>Environmental Control System</td>
</tr>
<tr>
<td>EEO</td>
<td>Equal Employment Opportunity</td>
</tr>
<tr>
<td>EMU</td>
<td>Extravehicular Mobility Unit</td>
</tr>
<tr>
<td>EOP</td>
<td>Executive Office of the President</td>
</tr>
<tr>
<td>EOR</td>
<td>Earth-Orbit Rendezvous</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>ERC</td>
<td>Electronics Research Center</td>
</tr>
<tr>
<td>ERDA</td>
<td>Energy Research and Development Administration</td>
</tr>
<tr>
<td>EREP</td>
<td>Earth Resources Experiments Package</td>
</tr>
<tr>
<td>ERTS</td>
<td>Earth Resources Technology Satellite (renamed Landsat)</td>
</tr>
<tr>
<td>ESA</td>
<td>European Space Agency</td>
</tr>
<tr>
<td>ESRO</td>
<td>European Space Research Organization</td>
</tr>
<tr>
<td>EVA</td>
<td>Extravehicular Activity</td>
</tr>
<tr>
<td>EVAL</td>
<td>Earth Viewing Applications Laboratory</td>
</tr>
<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
</tr>
<tr>
<td>FAMOUS</td>
<td>French-American Mid-Ocean Undersea Study</td>
</tr>
<tr>
<td>FCST</td>
<td>Federal Council for Science and Technology</td>
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<tr>
<td>FITH</td>
<td>Fire In The Hole</td>
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<tr>
<td>FRC</td>
<td>Flight Research Center (renamed the Dryden Flight Research Center in Jan. 1976)</td>
</tr>
<tr>
<td>FRR</td>
<td>Flight Readiness Review</td>
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<tr>
<td>G &amp; C</td>
<td>Guidance and Control</td>
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<tr>
<td>G &amp; N</td>
<td>Guidance and Navigation</td>
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<tr>
<td>GAEC</td>
<td>Grumman Aircraft Engineering Corporation</td>
</tr>
<tr>
<td>GAO</td>
<td>General Accounting Office</td>
</tr>
<tr>
<td>GARP</td>
<td>Global Atmosphere Research Program</td>
</tr>
<tr>
<td>GATE</td>
<td>GARP Atlantic Tropical Experiment</td>
</tr>
<tr>
<td>GE</td>
<td>General Electric Co.</td>
</tr>
<tr>
<td>GEOS</td>
<td>Geodynamic Experimental Ocean Satellite</td>
</tr>
<tr>
<td>GML</td>
<td>George M. Low</td>
</tr>
<tr>
<td>GMR</td>
<td>General Management Review</td>
</tr>
<tr>
<td>GSA</td>
<td>General Services Administration</td>
</tr>
<tr>
<td>GSFC</td>
<td>Goddard Space Flight Center</td>
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<tr>
<td>GT</td>
<td>Gemini-Titan</td>
</tr>
<tr>
<td>HEAO</td>
<td>High Energy Astronomy Observatory</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
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</tr>
<tr>
<td>HQS</td>
<td>Headquarters</td>
</tr>
<tr>
<td>IBM</td>
<td>International Business Machines Corporation</td>
</tr>
<tr>
<td>ICBC</td>
<td>Interagency Committee on Back Contamination</td>
</tr>
<tr>
<td>ICCERSP</td>
<td>Interagency Coordination Committee: Earth Resources Survey Program</td>
</tr>
<tr>
<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers</td>
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<tr>
<td>INTELSAT</td>
<td>International Telecommunications Satellite Organization</td>
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<tr>
<td>JCF</td>
<td>James C. Fletcher</td>
</tr>
<tr>
<td>JPL</td>
<td>Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>JSC</td>
<td>Johnson Space Center (formerly the Manned Spacecraft Center)</td>
</tr>
<tr>
<td>KSC</td>
<td>John F. Kennedy Space Center</td>
</tr>
<tr>
<td>LACIE</td>
<td>Large Area Crop Inventory Experiment</td>
</tr>
<tr>
<td>LAGEOS</td>
<td>Laser Geodynamic Satellite</td>
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<tr>
<td>LaRC</td>
<td>Langley Research Center</td>
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<tr>
<td>LC-39</td>
<td>Launch Complex 39</td>
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<tr>
<td>LEM</td>
<td>Lunar Excursion Module</td>
</tr>
<tr>
<td>LEP</td>
<td>Lunar Exploration Program</td>
</tr>
<tr>
<td>LeRC</td>
<td>Lewis Research Center</td>
</tr>
<tr>
<td>LLRV</td>
<td>Lunar Landing Research Vehicle</td>
</tr>
<tr>
<td>LLTV</td>
<td>Lunar Landing Training Vehicle</td>
</tr>
<tr>
<td>LM</td>
<td>Lunar Module</td>
</tr>
<tr>
<td>LOR</td>
<td>Lunar Orbit Rendezvous</td>
</tr>
<tr>
<td>LRL</td>
<td>Lunar Receiving Laboratory</td>
</tr>
<tr>
<td>LST</td>
<td>Large Space Telescope</td>
</tr>
<tr>
<td>LTA</td>
<td>Lunar Test Article</td>
</tr>
<tr>
<td>LV</td>
<td>Launch Vehicle</td>
</tr>
<tr>
<td>MA</td>
<td>Mercury-Atlas</td>
</tr>
<tr>
<td>MAC</td>
<td>McDonnell Aircraft Corporation</td>
</tr>
<tr>
<td>MCC</td>
<td>Mission Control Center</td>
</tr>
<tr>
<td>MDA</td>
<td>McDonnell Aircraft Corporation</td>
</tr>
<tr>
<td>MIT</td>
<td>Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>MJS</td>
<td>Mariner Jupiter Saturn</td>
</tr>
<tr>
<td>MMC</td>
<td>Martin Marietta Corporation</td>
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<tr>
<td>MOL</td>
<td>Manned Orbiting Laboratory</td>
</tr>
<tr>
<td>MOU</td>
<td>Memorandum of Understanding</td>
</tr>
<tr>
<td>MR</td>
<td>Mercury-Redstone</td>
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<tr>
<td>MSC</td>
<td>Manned Spacecraft Center (renamed the Johnson Space Center in Feb. 1973)</td>
</tr>
<tr>
<td>MSFC</td>
<td>George C. Marshall Space Flight Center</td>
</tr>
<tr>
<td>MTF</td>
<td>Mississippi Test Facility</td>
</tr>
<tr>
<td>MTI</td>
<td>Mechanical Technology, Inc.</td>
</tr>
<tr>
<td>Acronym</td>
<td>Definition</td>
</tr>
<tr>
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<tr>
<td>NAA</td>
<td>North American Aviation, Inc. (became North American Rockwell Corp. in Sept. 1967)</td>
</tr>
<tr>
<td>NACA</td>
<td>National Advisory Committee for Aeronautics</td>
</tr>
<tr>
<td>NAE</td>
<td>National Academy of Engineering</td>
</tr>
<tr>
<td>NAS</td>
<td>National Academy of Sciences</td>
</tr>
<tr>
<td>NASA</td>
<td>National Aeronautics and Space Administration</td>
</tr>
<tr>
<td>NASC</td>
<td>National Aeronautics and Space Council</td>
</tr>
<tr>
<td>NERVA</td>
<td>Nuclear Engine for Rocket Vehicle Application</td>
</tr>
<tr>
<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>NRC</td>
<td>National Research Council</td>
</tr>
<tr>
<td>NRL</td>
<td>Naval Research Laboratory</td>
</tr>
<tr>
<td>NSERC</td>
<td>National Solar Energy Research Consortium</td>
</tr>
<tr>
<td>NSF</td>
<td>National Science Foundation</td>
</tr>
<tr>
<td>NSTL</td>
<td>National Space Technology Laboratory</td>
</tr>
<tr>
<td>OA</td>
<td>NASA Office of Applications</td>
</tr>
<tr>
<td>OAO</td>
<td>Orbiting Astronomical Observatory</td>
</tr>
<tr>
<td>OART</td>
<td>NASA Office of Advanced Research and Technology</td>
</tr>
<tr>
<td>OAST</td>
<td>NASA Office of Aeronautics and Space Technology</td>
</tr>
<tr>
<td>OFK</td>
<td>Official Flight Kit</td>
</tr>
<tr>
<td>OGO</td>
<td>Orbiting Geophysical Observatory</td>
</tr>
<tr>
<td>OMB</td>
<td>U.S. Office of Management and Budget</td>
</tr>
<tr>
<td>OMSF</td>
<td>NASA Office of Manned Space Flight</td>
</tr>
<tr>
<td>OSO</td>
<td>Orbiting Solar Observatory</td>
</tr>
<tr>
<td>OSS</td>
<td>NASA Office of Space Sciences (later Office of Space Science and Applications)</td>
</tr>
<tr>
<td>OSSA</td>
<td>NASA Office of Space Science and Applications</td>
</tr>
<tr>
<td>OST</td>
<td>White House Office of Science and Technology</td>
</tr>
<tr>
<td>OTDA</td>
<td>NASA Office of Tracking and Data Acquisition</td>
</tr>
<tr>
<td>OWS</td>
<td>Orbital Workshop</td>
</tr>
<tr>
<td>PAD</td>
<td>Project Approval Document</td>
</tr>
<tr>
<td>PAO</td>
<td>NASA Public Affairs Office</td>
</tr>
<tr>
<td>PCIC</td>
<td>President's Commission on Industrial Competitiveness</td>
</tr>
<tr>
<td>PDR</td>
<td>Preliminary Design Review</td>
</tr>
<tr>
<td>PLSS</td>
<td>Portable Life-Support System</td>
</tr>
<tr>
<td>QCSEE</td>
<td>Quiet Clean Short-haul Experimental Engine</td>
</tr>
<tr>
<td>QSRA</td>
<td>Quiet Short-haul Research Aircraft</td>
</tr>
<tr>
<td>R &amp; D</td>
<td>Research and Development</td>
</tr>
<tr>
<td>RANN</td>
<td>Research Applied to National Needs</td>
</tr>
<tr>
<td>RASPO</td>
<td>Resident Apollo Spacecraft Program Office</td>
</tr>
<tr>
<td>Acronym</td>
<td>Full Form</td>
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<tr>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td>RCA</td>
<td>Radio Corporation of America</td>
</tr>
<tr>
<td>RIF</td>
<td>Reduction in Force</td>
</tr>
<tr>
<td>RPI</td>
<td>Rensselaer Polytechnic Institute</td>
</tr>
<tr>
<td>RTAC</td>
<td>Research and Technology Advisory Committee</td>
</tr>
<tr>
<td>S-II</td>
<td>Saturn V Second Stage</td>
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Appendix C. SEPARATION LIST

The following materials were removed from the George M. Low Papers:

I. A. Duplicate Materials
disposition: discarded
rationale: these materials duplicated items contained in the collection or filed in the RPI President’s Office papers

Personal and Biographical File clippings, correspondence, photographs, memorabilia and biographical materials, 1949-1984, 6”
Personal Job Search File resumés and biographical material, 1975-1976, 1”
RPI Student report, “Two Distinct Solutions of the Wave Equation...,” 17 sheets
Lewis Flight Propulsion Laboratory Files reports and papers, 4”
NASA Chronological File correspondence, 1967-1969, 1”
NASA Sensitive Chronological File correspondence, 1968-1974, 1”
NASA Note File correspondence and notes, 1971-1976, 1”
NASA Apollo Memoranda, 1967-1968, 5”
NASA Miscellaneous Correspondence, 1971-1974, 1”
NASA Administrative and General Apollo Files memoranda and correspondence, 1967-1976, 1”
NASA Specific Flight Files, Apollos 204, 10, 11, 16, 17, ASTP, Skylab, Shuttle manuals, correspondence, memoranda, publicity materials and photographs, 1968-1979, 5”
NASA Apollo Reviews briefing papers, 1968, 2”
NASA Tour Files memorabilia, reports, photographs, publicity materials, correspondence and briefing papers, 1966-1975, 9”
NASA Speeches, Statements and Publications File speeches, 1960-1972, 2”
NASA Awards and Honors memorabilia, publicity and speeches, 1969-1980, 1”
NASA File of the Day photographs and memorabilia, 1”
NASA Photograph Albums and Files photographs, 1”
Later NASA Transition Team Files notebook, “NASA Transition Team Background Reading”, and other papers, Nov.-Dec. 1980, 2”
RPI Presidential Chronological File correspondence and memoranda, 1976-1982, 78”, duplicated in the RPI President’s Office papers collected by the RPI Archives
RPI Personal Notes, 2 sheets
RPI Speeches and Presentations File speeches, 1974-1979, 1”
RPI Trip and Meeting Files briefing charts, reports, speeches and slides, 1976-1980, 3"
Committee and Board Files correspondence, briefing materials, clippings, reports and memorabilia, 4"
Membership Files correspondence, photographs, and memorabilia, 1"
Photographs of George Low, mounted and unmounted, 5"
ERTS photo of Capital District, rolled in tube
NASA publicity pamphlets, 1975-1981, 1"

B. Duplicate Materials

disposition: forwarded to the Nixon and Ford Presidential Libraries
rationale: same as above

Correspondence and memoranda collected by GML for Presidential Libraries, 1969-1977, 18", duplicated in NASA Chronological and Sensitive Chronological Files, and in RPI President's Office papers

Subtotal: 13 linear feet (156")

II. Newspapers and Magazines
disposition: discarded
rationale: preservation concerns prohibited the retention of issues of newspapers;
preservation issues also prompted a selection to be made from the Latin American tour clippings (clippings which discussed GML's activities were saved); the incomplete magazines did not directly relate to collection manuscripts and were judged to be generally available elsewhere

Intact newspapers (total 3"
Cocoa (Florida) Today. 1 October 1978; 17 July 1974
Dakar Le Soleil. 24 July 1974
Honolulu Star-Bulletin & Advertiser. 19 April 1970 (2 copies)
Houston Post. 27 July 1969 (2 copies); 21 July 1969 (2 copies)
Miami Herald. 13 July 1969
Paris International Herald-Tribune. 22 January 1971
Pravda. 25 July 1975; 17 January 1971
Rensselaer Polytechnic. 10 May 1967
St. Paul Pioneer Press. 9 April 1970
Troy Times-Record. 15 April 1981
Incomplete magazines: (total 1")
Aviation Week and Space Technology. 26 February 1962
Engineering Education. October 1981
IEEE Spectrum. October 1976
Loose clippings from Latin American tour, 1966 (5"), plus one tube of rolled larger pages
Photostats of New York Times front pages, 18-25 July 1969, 6 sheets

Subtotal: 1.2 linear feet (14")

III. NASA Publicity Materials
disposition: discarded
rationale: these batches of material appeared to have little direct relation to collection manuscripts; they were judged to be readily available at the NASA History Office or NASA Public Affairs Office

NASA Activities. 1.2 (1970) through 8.8 (1977), 12"
NASA Current News. 1967-1980, 6"
NASA news releases, 1970-1979, 1"
NASA photograph albums: Gemini (3 albums), Apollos 8, 9, 10, 11, 12 (6 albums), ASTP (1 album) 22"
Unmounted NASA photographs: Viking, Mariner, Voyager, Apollos 7-16, Skylab, Shuttle, miscellaneous publicity, 26"
NASA press kits, 1970-1979, 5"

Subtotal: 6 linear feet (72")

IV. RPI President's Office Papers
disposition: accessioned to the RPI Archives President's Office papers
rationale: these papers appeared to be a part of the official working files of the President's Office

Correspondence for RPI President's Office Papers (Grosh), 4 sheets
Correspondence for RPI President's Office Papers (Low), 6 sheets
Certificate of Appreciation to RPI Athletic Department from Troy Youth Hockey Association, framed
RPI President’s Office Chronological File, June 1976-June 1983, 30"
RPI President’s Office Note File, June 1976-Nov. 1981, 30"
Official congratulations received upon GML’s assuming the Presidency of RPI, 6"

Subtotal: 5.6 linear feet (67")

V. Artifacts
disposition: discarded all but the globe, which receives general library usage
rationale: items were judged either to be of little research value or to exhibit
conservation problems which would prohibit their retention

World globe, by Denoyer-Geppert, ca. 1965
Vial of contaminated water glycol from Lunar Module 5
Pickled frog from Gemini VIII flight
100 gram tin of Soviet cheese
Coffee cup
2 Hospital admitting bracelets, 1975
Set of car keys to RPI automobile

VI. Monographs and Other Publications
disposition: added to the Folsom Library collections or deaccessioned
rationale: these items, collected or received by GML, were judged to be generally
available to researchers at RPI’s Folsom Library or other repositories

see Appendix D for a listing of these works
Appendix D. THE LOW LIBRARY

These publications, collected by or given to GML, were separated from the George M. Low Papers because they were judged to be generally available either at RPI's Folsom Library or other repositories. (Those volumes which were selected for retention with the collection are listed in Series VII.) Works have been grouped into broad subject or publishing categories: NASA Publications, Aerospace and Aeronautics, Higher Education, Sciences and Miscellaneous, Congressional Publications, and Periodicals. Within each category, publications are listed by author, or by title if an author could not be identified.

I. NASA Publications


Hacker, Barton C. and James M. Grimwood. *On the Shoulders of Titans: A History of


Huff, Vearl N., Sanford Gordon, and Virginia E. Morrell. General Method and Thermodynamic Tables for Computation of Equilibrium Composition and Temperature of Chemical
Johnston, Richard S., Lawrence F. Dietlein and Charles A. Berry, eds. Biomedical Results of Apollo. Washington, D.C.: NASA, 1975. (NASA SP-368) (inscribed: "12/3/75 To George Low: This book documents another chapter in the historic Apollo program. You more than any person I know made Apollo a success. I will always look back with pride and fond memories to the years it was my privilege to work with you. Your dedication, self discipline and skillful management will always be the example I will look to in developing into a better and more productive manager. I will always appreciate the opportunities you and NASA gave to me and my family. Dick Johnston")
McLane, James C., Jr. Apollo Experience Report: Manned Thermal-Vacuum Testing of


Rutkowski, Michael J. *Apollo Experience Report: Structural Loads Due to Maneuvers of..."


Swenson, Loyd S., Jr., James M. Grimwood, and Charles C. Alexander. This New Ocean:
A History of Project Mercury. Washington, D.C.: NASA, 1966. (NASA SP-4201) (2 copies; 1 with inscriptions: "Best Wishes Charles C. Alexander University of Georgia", "To Mr. Low- I thank you for being a 'string saver' of some very useful documentation, and your hours of patient, critical reading of the manuscript. With good wishes and best regards, Jim Grimwood 2-28-'67 P.S. Understand that Marilyn after reading a considerable portion of the book commented that 'you sure did sit around and write a lot of memos.' JMG" and "To George Low, who kept the wheels lubricated and cooperating throughout Mercury, and who kept the records that allowed this work to be written. With great respect and admiration, Loyd S Swenson Jr")


NF-44/7-72, GPO 3300-0458)
GPO 033-000-00651-9) (3 copies)


EP-94, GPO 439-742) (2 copies)
___.___._____. This Is NASA. Washington, D.C.: NASA, n.d. (NASA Information Sheet FGM 77-2)

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II. Aerospace and Aeronautics


General Electric Co. *...for the benefit of all mankind.* Philadelphia: General Electric, n.d. (2 copies)


III. Higher Education


*An Assessment of Research-Doctorate Programs in the United States: Biological Sciences*. 


----- *Three Thousand Futures*. San Francisco: Jossey-Bass, 1980. (2 copies, one with supplements, one summary only)


Massachusetts Institute of Technology. *UROP -- What's It All About?* Cambridge, MA: MIT, [1975].


——. *Voluntarism vs. Regulation.* N.p.: Middle States Association of Colleges and Schools, 1979.


____. ______. ______. *College and University Trustees and Trusteeship.* N.p: n.p, [1966]. (2 copies)

____. ______. Select Committee on the Future of Private and Independent Higher Education in New York State. *New York State and Private Education.* Albany: State Education Department, 1968. (2 copies)


Rauh, Morton A. *College and University Trusteeship.* Yellow Springs, OH: The Antioch
Whimbley, Arthur and Linda Shaw Whimbley. *Intelligence Can Be Taught*. New York:

IV. Sciences and Miscellaneous

(2 copies, 1962 and 1967)
(autographed copy)


______. Stimulating Technological Progress. New York: CED, 1980. (2 copies)


(inscribed by the author)


Shapley, Willis H., Albert H. Teich and Jill P. Weinberg. AAAS Report VIII: Research &


Syracuse University. The Donald S. MacNaughton Symposium Proceedings. Syracuse, NY: Syracuse University, 1981.

Technology: Adam Smith, Uncle Sam, and Big Brother. Rolling Meadows, IL: Gould, Inc., n.d.


______. National Science Board. Basic Research in the Mission Agencies. Washington:
National Science Foundation, 1978.
(NSB 80-1)

V. Congressional Publications

Congressional Record. 26 Nov. 1969.


____. ______. ______. Committee on Science and Technology. Astronauts and Cosmonauts Biographical and Statistical Data: Report... Prepared by the Science Policy


*Project Mercury: Man-In-Space Program of the National Aeronautics and Space Administration: Report...* Washington: GPO, 1959.


*Space Shuttle Payloads: Hearing...* Part 1. 93d Congress


VI. Periodicals

Alternative Futures. 1.1 (Spring 1978) (2 copies); 1.2 (Summer 1978); 1.3-4 (Fall 1978); 2.1 (Winter 1979).

Geographic. 136.6 (Dec. 1969).
Astronautics & Aeronautics. 8.3 (Mar. 1970) (3 copies); 8.10 (Oct. 1970); 9.6 (June 1971) (4 copies).
At Rensselaer. 74.5 (Dec. 1974).
Aviation Week & Space Technology. 8 Nov. 1976.
Calypso Log. 1.1-2 (1974); 2.1-4 (1975); 3.1-3 (1975); 4.6 (Nov.-Dec. 1977); 6.2 (June 1979).

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Appendix E. LOW PAPERS IN OTHER REPOSITORIES

The following repositories house files created by GML which supplement the George M. Low Papers:

I. Federal Records Center, Suitland, MD
   Volume: 8 cubic feet
   Files at the Center contain correspondence and subject files created by GML during his early years with NASA. Included are outgoing and incoming correspondence (1958-1961), and subject files (1959-1963) containing clippings, releases, photographs and contractor documentation pertaining primarily to Project Mercury.

II. NASA History Office, Washington, DC
    Volume: approximately 16 cubic feet
    The bulk of the GML papers at the History Office is composed of subject files which GML created during his tenure as Deputy and Acting Administrator. Included are files on administrative issues, other agencies, programs and projects, etc. The History Office has also collected speeches and photographs from GML's NACA and NASA career, and a portion of their NASA Administrator's chronological file contains GML correspondence from 1971 to 1975.

III. NASA History Office, Johnson Space Center, Houston, TX
     Volume: 2 boxes
     Apollo historical files at the JSC History Office include Apollo Spacecraft Program Manager memoranda, 1967-1969. These appear to be copies of GML's Apollo Notes to Dr. Gilruth.