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PETER E. GLASER

Papers, 1944-2000

Manuscript Collection - MC 569

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32 cubic feet

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BIOGRAPHICAL NOTE

Peter E. Glaser was born on 5 September 1923 in Zatec, Bohemia, Czechoslovakia. He immigrated to the United States in 1948 and became a U.S. citizen in 1954. Glaser was educated at Leeds College of Technology in the United Kingdom, Charles University in Prague, and Columbia University in New York, from which he received his M.S. (1951) and his Ph.D. (1955) degrees in mechanical engineering.

Glaser was the head of the design department at Werner Management Company in New York City from 1948 to 1953. From 1955 to 1999 he was employed at Arthur D. Little, Inc., serving as a vice president at the time of his retirement. At Arthur D. Little, he worked with chemists, physicists, and engineers on consulting projects in aerospace, solar energy, and materials science. He served as project manager for the Apollo 11 Laser Ranging Retroreflector Array; he was also project manager for the Lunar Heat Flow Probes and the Initial Blood Storage Experiment, which explored gravitational effects on human blood cells. At the Intersociety Engineering Energy Conversion Conference in 1968, he presented the concept of the solar power satellite to harness the sun's power for use on Earth, and in November 1968 the idea was published in the journal *Science*. In 1973, he was granted a U.S. patent for the solar power satellite concept. Drawing on his experience in space science and technology, solar energy conversion, and wireless power transmission, Glaser became an energetic advocate of solar power satellites as a solution to the global energy dilemma, writing articles and giving lectures and interviews on the topic. His work on solar energy applications includes the development of photovoltaic conversion systems, solar concentrators, solar heating and cooling systems, and applications of solar technology in developing countries.

In 1978, Glaser formed the Sunsat Energy Council (SUNSAT), an organization associated with the United Nations Economic and Social Council (ECOSOC). He has served on committees of the National Academy of Sciences and the Office of Technology Assessment of the United States Congress, and he has testified about solar power satellites before House and Senate committees.

Glaser was president of the International Solar Energy Society (1968-1969) and editor-in-chief of the *Journal of Solar Energy* (1971-1984). He was the recipient of the Carl F. Kayan medal from Columbia University in 1974. He also received the Farrington Daniels Award from the International Solar Energy Society in 1983.

Glaser is a fellow of the American Association for the Advancement of Science (AAAS) and the American Institute for Aeronautics and Astronautics. He is a member of the American Society of Mechanical Engineering, the American Astronautical Society (AAS), the National Space Society (NSS), and the International Astronautical Federation (IAF). In 1993, the National Space Society and the International Astronautical Federation established the Peter Glaser Plenary Lecture to be given at the Annual Congress. Glaser is a regent of the United Societies in Space (USS). In 1996, he was

inducted into the Space Technology Hall of Fame of the United States Space Foundation (USSF).

PROVENANCE NOTE

The papers were given to the Institute Archives by Peter E. Glaser in 2001 and 2002. Additional material was given by Glaser in 2005.

SCOPE AND CONTENT NOTE

The papers of Peter E. Glaser document his professional career and personal activities from 1944 to 2000, with the bulk of the materials dating from 1975 to 1995.

A large portion of the collection reflects Glaser's work and interest in solar energy applications, especially the solar power satellite. While relevant items may be found throughout the collection, most of these papers are gathered in Series V, Subseries B, Solar energy applications, which brings together material of various formats (including a large number of publications and clippings) relating to Glaser's solar energy research and advocacy.

Other series and subseries include material documenting different facets of Glaser's interest in solar energy. Glaser's leadership of the Sunsat Energy Council is well documented in Series II, Professional Organization Records. Material documenting Glaser's research and promotion of solar energy and the solar power satellite is distributed throughout Series IV, Professional Activities - Research and Advocacy Records. Within Series IV, a large quantity of relevant material may be found in the chronologically organized "Solar energy applications - Peter E. Glaser appearances" set of folders in Subseries E, Public appearances, and in Subseries F, Congressional testimony. Of particular interest are the numerous papers and reports by Glaser and others detailing the benefits and problems associated with solar power satellites, as well as Glaser's testimonies before the House and Senate on behalf of the proposed satellite, which document public discussions of alternative energy sources during the energy crisis of the 1970s. A somewhat more limited set of material relating to solar energy may also be found in Series III, Arthur D. Little, Inc. Project Records, especially Subseries A, Technical reports.

Glaser's other interests in aerospace science and technology are also well represented in the collection. As with the solar energy materials, many of the aerospace materials are collected in Series V, Professional Interests - Subject Files, Subseries A, Space science and technology. Papers relating to numerous aerospace research and advocacy organizations (Glaser was a member of many) are located in Series II, Professional Organization Records. A substantial portion of the papers in Series III, Arthur D. Little, Inc. Project Records, documents Glaser's work in space science and technology (in particular Subseries A, Technical reports, and the "Technical" section of Subseries B,

Publicity). Relevant material may also be found throughout Series IV, Professional Activities - Research and Advocacy Records.

Glaser's professional papers also document his interest and activity in the environment, the commercialization of space, refrigeration technology, and engineering in general.

Series III, Arthur D. Little, Inc. Project Records, includes material documenting the administration, organization, and employment practices of the firm. Of special interest is a fairly sizable collection of newsletters and other publications created by the company.

A small selection of papers (including course notebooks) in Series I, Biographical Information, Subseries C, Education, offers documentation of graduate education in engineering at Columbia University in the 1950s. Material relating to Glaser's education in Czechoslovakia is not well represented. Other material in Series I reflects Glaser's activities and interests in Jewish religious and charitable organizations.

In the folder list, brackets [] indicate information supplied.

SERIES LIST

I. BIOGRAPHICAL INFORMATION

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- B. Correspondence (box 1, folders 5-8)
- C. Education (box 1, folder 9 - box 2, folder 10)
- D. Personal interests (box 3, folders 1-14)
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III. ARTHUR D. LITTLE, INC. PROJECT RECORDS

- A. Technical reports (boxes 14-17)
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IV. PROFESSIONAL ACTIVITIES - RESEARCH AND ADVOCACY RECORDS

- A. Meetings and conferences (box 24 - box 29, folder 3)
- B. Correspondence (box 29, folder 4 - box 30, folder 4)
- C. Editorial project files (box 30, folder 5 - box 36, folder 6)
- D. Publications and presentations (box 37 - box 45, folder 15)
- E. Public appearances (boxes 46-50)
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V. PROFESSIONAL INTERESTS - SUBJECT FILES

- A. Space science and technology (boxes 72-76)
- B. Solar energy applications (boxes 77-93)

C. Other topics (boxes 94-95)

VI. CORRESPONDENCE AND ARTICLES RECEIVED IN 2005

SERIES DESCRIPTIONS

SERIES I, BIOGRAPHICAL INFORMATION, 1944-1999, includes five subseries. Subseries A, **Summary information**, contains biographical sketches and biographical directory listings. Subseries B, **Correspondence**, offers a modest amount of Glaser's personal correspondence. Subseries C, **Education**, arranged chronologically, includes textbooks, notebooks, lecture and research notes, and manuscripts of academic and research papers. It also includes some correspondence from later years in addition to printed materials about Columbia University. The majority of materials in Subseries D, **Personal interests**, reflect Glaser's interest in and activities relating to Judaism and Jewish culture. The series includes printed materials from various ceremonies Glaser attended, newspaper clippings, and brochures on Combined Jewish Philanthropies, for which Glaser has served as an overseer. Subseries E, **Photographs**, consists of photographs of Glaser.

SERIES II, PROFESSIONAL ORGANIZATION RECORDS, 1951-2000, consists of membership material, conference material, correspondence, and publications of professional organizations, as well as some governmental agencies and committees. Materials are arranged alphabetically by the name of the organization. Of special interest is the material pertaining to the Sunsat Energy Council (SUNSAT), an organization dedicated to advancing the concept of solar power satellites. Glaser was a founder of SUNSAT and served as president (1978-1994) and chairman (1994-).

SERIES III, ARTHUR D. LITTLE, INC. PROJECT RECORDS, 1946-1993, contains materials related to the consulting firm and Glaser's projects there. Materials are arranged into two subseries. Subseries A, **Technical reports**, is arranged alphabetically by title of the report or presentation and includes papers and presentations related to Arthur D. Little technical projects completed for clients. The majority of clients represented are corporations in the U.S. and elsewhere (including Standard Oil, Gulf Oil, Whirlpool, and Boeing) but also include United States military and government clients (such as NASA and the NSF). The projects relate to aerospace technology, energy issues, and refrigeration technology, and more specifically include blood storage in space, CO₂ research, cryogenics, EVA (extravehicular activities), thermal imaging, refrigerator/freezer and washer/dryer for the Space Station Freedom, and various aspects of lunar exploration. Subseries B, **Publicity**, is arranged in two groupings, administrative and technical, and includes proposals, publications, presentations, newsletters, brochures, directories, press releases, memorabilia, and clippings about or produced by Arthur D. Little, Inc. Most of the material was produced in the 1970s and 1980s.

SERIES IV, PROFESSIONAL ACTIVITIES - RESEARCH AND ADVOCACY RECORDS, 1957-2000, represents the bulk of the collection. The material is divided into six subseries. Subseries A, **Meetings and conferences**, contains papers by Glaser and others presented at conferences, as well as conference programs, correspondence, and other related materials. Subseries B, **Correspondence**, includes correspondence concerning a variety of aerospace, energy, and engineering topics, with an emphasis on the solar power satellite. Subseries C, **Editorial projects**, includes correspondence and

papers related to Glaser's work as guest editor of the journals *Solar Energy Journal* and *Space Policy Journal* and co-editor of the monograph *Solar Power Satellites: A Space Energy System for Earth*. Subseries D, **Publications and presentations**, arranged chronologically, comprises reprints of various papers and articles Glaser wrote for conferences, scientific journals, newspapers, and popular periodicals, as well as notices of publication. Topics covered include solar energy, space and space exploration, and the economic rewards of continuing the space program. Additional publications and presentations by Glaser are located in other parts of the collection, including Series III, Subseries A, Technical reports; Series IV, Subseries E, Public appearances; and Series V, Professional Interests - Subject Files. Subseries E, **Public appearances**, is arranged alphabetically by subject and contains announcements and advertisements for Glaser's lectures, presentations, and interviews (mainly on the subject of solar power satellites), as well as correspondence relating to presentations. Subseries F, **Congressional testimony**, includes transcripts of Glaser's testimonies before Congress. The testimonies cover the solar power satellite, solar energy, and small business use of technology. Much of the material relates to the bill "Solar Power Satellite Research, Development, and Demonstration Act of 1978," introduced by Representative Ronnie Flippo of Alaska. Subseries G, **Research publications by others**, contains papers and articles on topics relating to solar energy, including the solar power satellite; wireless power transmission (WPT) and other energy-related topics; topics related to space science and technology (including lunar landings, the Challenger disaster, and international relations in space missions); as well as other topics. Other authors' publications may also be found elsewhere in the collection, including Series V, Professional Interests - Subject Files.

SERIES V, PROFESSIONAL INTERESTS - SUBJECT FILES, 1963-2000, is arranged into three subseries. Subseries A, **Space science and technology**, contains publications and clippings, arranged chronologically. Topics covered include the proposed Euromoon 2000 European lunar South Pole expedition and the lunar laser retroreflector. A number of related files are located in Series IV, Subseries A, Meetings and conferences. Subseries B, **Solar energy applications**, contains publications and clippings, arranged chronologically, related to solar energy and its applications. Subseries C, **Other topics**, includes papers on other scientific topics including the biological effects of electromagnetic radiation, global warming, macro-engineering, and sustainable development.

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1	6	Brown, William C., 1984, 1998-1999	
1	7	Michaelis, Anthony R., 1999	
1	8	Zemansky, P. E. (Boston University), 1999	
C. Education			
1	9	Zvonicek, Jan, and Karel Spala, <i>Direktni regulatory rychlosti</i> , 2nd ed., Praha: Ceska Matice Technicka, 1928	
1	10	[Academic notes], [1940s?]	
1	11	Rotkovsky, Emil, <i>Zdvihadla</i> , Praha, 1944	
1	12	King, W. J. <i>The Unwritten Laws of Engineering</i> , New York: The American Society of Mechanical Engineers, c1944	
1	13	"Past Examinations for Professional Engineers [in] New York State," 1943-1951	
1	14	The University of the State of New York. "Examination for Professional Engineers," 1946-1949	
2	1	Academic notes - [engineering economy], thermodynamics, mechanics, hydraulics, electricity, [1950s?]	

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2	3	Lecture notes - Fine Arts 85, Spring 1951	
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2	5	Glaser, Peter E., "The Thermal Conductivity of Insulating Materials and Its Measurement" - [term paper for M. E. 254 - Advanced Experimental Research Techniques], May 1952	
2	6	Glaser, Peter E., "Progress Report on Conductivity Measurements of Insulating Materials by Line Source of Heat Method," September 1953	
2	7	Research notes, 1954	
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14	7	Arthur D. Little Inc., "Discussion Notes: Power Relay Satellite Solar Power Satellite," 5 May 1994
14	8	Arthur D. Little Inc., "Evaluation of Developments in Solar Energy," 30 June 1977
14	9	Arthur D. Little Inc., "Evaluation of Solar Cells and Arrays for Potential Solar Power Satellite Applications," 31 March 1978
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15	7	Arthur D. Little, Inc., "GaAIAs/GaAs Solar Cell Process Study," May 1980	
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16	10	Arthur D. Little, Inc., "Statement of Qualifications Relating to the Thermal, Structural, Optical Design of Spaceborne Experiments," n.d.	
17	1	Arthur D. Little Inc., "The Status of Photovoltaics in the United States," n.d.	
17	2	Arthur D. Little Inc., "Study of Renewable Energy Sources for Rural Electrification," January 1977	
17	3	Arthur D. Little Inc., "Study of Renewable Energy Sources for Rural Electrification Executive Summary," January 1977	
17	4	Arthur D. Little, Inc., "Study of Space Station Commercial Earth and Ocean Observation Missions, Payload Elements and Technologies, Markets and Constraints," 1986	
17	5	Arthur D. Little Inc., "System Study of the Utilization of Space for CO ₂ Research," April 1984.	
17	6	Arthur D. Little Inc., "Technology Transfer and the Technology Utilization Program," 22 January 1965	
17	7	Arthur D. Little. "Technology Transfer and the Technology Utilization Program, 1965," Report to the Office of Technology Utilization, National Aeronautics and Space Administration. April 1966.	
17	8	Thermal conductivity of insulating powders, ca. 1960	
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