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Richard H. Emmons Papers, circa
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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Richard H. Emmons Papers
Date:	circa 1935-1976, 1990-1991, 1995-1996, 2005
Identifier:	Accession 08-112
Creator::	Emmons, Richard H., 1919-2005
Extent:	0.5 cu. ft. (1 document box)
Language:	English

Administrative Information

Preferred Citation

Smithsonian Institution Archives, Accession 08-112, Richard H. Emmons Papers

Descriptive Entry

Richard H. Emmons (1919-2005), astronomer, engineer, and proponent of astronomy education, taught astronomy and physics at Kent State University and later worked as an engineer for Goodyear Aerospace Corporation. He was well-known for the planetariums he established, over 23 in all. Emmons was also the team leader for the North Canton Moonwatch Team. Moonwatch teams were established around the world by the Smithsonian Astrophysical Observatory, Moonwatch Division, 1956-1975, to track and photograph artificial satellites. This accession consists of records created and maintained by Emmons documenting his work as an astronomer and an engineer, his participation in Moonwatch, and his research interests. This accession also documents the creation and dissolution of both the Moonwatch program as well as the North Canton Moonwatch Team. Materials include correspondence, reports, clippings, articles, fact sheets, photographs, lecture notes, announcements, newsletters, calculations, notes, and related materials as well as an autobiography of H. H. Emmons with a postscript written by his son, Richard H. Emmons.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Aerospace engineering
- Aerospace engineers
- Artificial satellites -- Tracking
- Astronomers
- Astronomy
- Astronomy -- Study and teaching
- Astrophysicists
- Astrophysics

Planetariums
Satellites

Types of Materials:

Black-and-white photographs
Books
Clippings
Manuscripts
Newsletters

Names:

Emmons, H. H. (Harry H.)
Emmons, Richard H., 1919-2005
Goodyear Aerospace Corporation
Kent State University
North Canton Moonwatch Team
Smithsonian Astrophysical Observatory. Moonwatch Division

Container Listing

Box 1	
Box 1 of 1	"Virtual Observations of the Earth's Satellite in the USSR," by A. G. Masevich, 1957
Box 1 of 1	"Soviet Earth Satellite Sets World Agog," The Canton Repository, October 5, 1957
Box 1 of 1	SVAS News (Sacramento Valley Astronomical Society), October 1975
Box 1 of 1	"An Indicated Specular Degradation Rate for Aluminized Mylar Surfaces in Near-Earth Orbit from Recent Photometric Observations of the Echo I Satellite," by Richard H. Emmons, 1967
Box 1 of 1	"Artificial Satellites and Space Exploration," by Richard H. Emmons, undated
Box 1 of 1	Trip Report, 110th Meeting of the American Astronomical Society, 1962
Box 1 of 1	The Akron-Canton Satellite Tracking Group, Fact Sheets, 1962-1964
Box 1 of 1	"Photometric Observations of Artificial Satellites for Determining Optical and Physical Characteristics," by Richard H. Emmons, Clarence L. Rogers, Jr., and Raymond J. Preski, 1967
Box 1 of 1	Correspondence with Fred L. Whipple, 1964
Box 1 of 1	Lectures, 1990-1991
Box 1 of 1	Moonwatch Team Photographs, undated
Box 1 of 1	"Five Color Photometric Measurements of Near-Earth Satellites," by Richard H. Emmons and Raymond J. Preski, 1967
Box 1 of 1	"Analysis of Satellite Finds Slight Danger of Puncture from Meteorites," The New York Times, November 17, 1964
Box 1 of 1	Satellite Photographs, undated
Box 1 of 1	Study of Radiation in CIS-Lunar Space, 1962
Box 1 of 1	Formation of Akron-Canton Moonwatch Team, 1956
Box 1 of 1	Lecture, Planetarium Section, American Association of Museums, 1957
Box 1 of 1	Biographical Information

Box 1 of 1	Observations, October 1957
Box 1 of 1	Gift for Von Braun, 1959
Box 1 of 1	Announcement Cards, Harvard College Observatory, 1957-1959
Box 1 of 1	"Evaluation of Two Proposed Optical Instruments," undated
Box 1 of 1	"Bulletin for Visual Observers of Satellites," 1956
Box 1 of 1	"Preparation for Satellite Observations," by Richard H. Emmons, undated
Box 1 of 1	North Canton Planetarium, 1953-1956
Box 1 of 1	North Canton School of Astronomy, undated
Box 1 of 1	"A Report on the Extra-curricular Astronomy Activity at Kent State University - Canton," undated
Box 1 of 1	Kent State University - Canton, 1949
Box 1 of 1	Akron-Canton Moonwatch Team Five-Year Anniversary, 1961
Box 1 of 1	Discontinuation of Akron-Canton Satellite Tracking Group, 1965
Box 1 of 1	Mobile Observatory, undated
Box 1 of 1	"A Limited Study of the Technical Performance of the Akron-Canton Satellite Tracking Group," 1961
Box 1 of 1	"Photometric Measures of Surface Characteristics of Echo I Satellite: Final Report," 1964
Box 1 of 1	"A Program for the Purpose of Determining the Geometry, Surface Characteristics, and Reflectance Degradation Rate of the Echo I Satellite, from Ground Observational Data," 1962
Box 1 of 1	"Meteoroids and Dust," by Fred L. Whipple, 1965
Box 1 of 1	"Planetaria and their Use for Education," 1959
Box 1 of 1	Hoover-Price Planetarium, Canton, c. 1963
Box 1 of 1	"Portatarium," 1962
Box 1 of 1	Emmons' 86th Birthday Invitation, 2005
Box 1 of 1	Dissolution of Moonwatch Program, 1975

Box 1 of 1	End of Prediction Office, 1990
Box 1 of 1	Updating Moonwatch Station Information, 1971
Box 1 of 1	Kent State University - Salem Campus Planetarium, 1976
Box 1 of 1	Autobiography of Harry H. Emmons with Postscript by Richard H. Emmons, 1996
Box 1 of 1	Emmons Photograph, Goodyear, undated
Box 1 of 1	Correspondence with Eric Paul Bishop, Grandson, 1995
Box 1 of 1	Correspondence with Albert Einstein, 1935
Box 1 of 1	University of North Carolina Planetarium, 1952
Box 1 of 1	Notes and Calculations