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1973 LEWIS INSPECTION MOTION PICTURES

<u>STOP NO.</u>	<u>TITLE</u>	<u>FILM NO.</u> <u>MPD</u>	<u>LOCATION</u>
1	Quieting the Fleet	1376	10 x 10
2	Cleaner Skies	1377	PSL 3 & 4
3	Powered Lift	1378	9 x 15
4	Boost from Rockets	1379	Zero-G
5	Space Electronics Technology	1380	EPL
6	Energy for a Better Life	1381	ERB Center Section
7	Materials for Man	1382	MPL
8	The Impact of Wear	1383	ERB West Wing
9	Servants in Space (NASA)	1384	Ad. Bldg. (Auditorium)

AGENDA

"Technology in the Service of Man"

A review of the Lewis Research Center's contributions to the aeronautics and space sciences.

8:00 Arrival and Registration

9:00 Welcoming Remarks

9:10 Opening Address

9:25 Start Inspection Tour

9:35 Stop 1 - "Quieting the Fleet"

A discussion of the types of aircraft engine noise, their sources and current and projected methods for substantially reducing engine noise.

10:10 Stop 2 - "Cleaner Skies"

A discussion and demonstration of the types of pollutants created by aircraft engines, their effects on the environment and what is being done now and projected for the future to minimize the problem.

10:35 Coffee Break

11:00 Stop 3 - "Powered Lift"

A discussion of the concept of powered lift in aircraft, the technology necessary to create such systems and implications for future use.

11:35 Stop 4 - "Big Boost from Rockets"

An overview of the launch vehicle and scientific satellite systems for which Lewis has been responsible and the direct applications of the resultant technologies to everyday life.

12:10 Stop 5 - "Space Electronics Technology"

A review of the current effort directed toward improving the life while reducing the size and complexity of space electronics/communications satellite systems.

12:45 Lunch

1:45 Resume Tour

1:55 Stop 6 - "Clean Energy for a Better Life"

An overview of energy conversion systems used in space applications and their potential for helping solve the earth's energy shortages.

2:30 Stop 7 - "Materials for Man"

A review of the state of the art in materials technology and implications for usage of materials such as high temperature alloys, ceramics, composite materials and polymers.

2:55 Coffee Break

3:20 Stop 8 - "The Impact of Wear"

A description of the mechanisms of friction and wear, their measurement, and methods under development to increase the life of materials subject to these mechanisms.

3:55 Stop 9 - "Servants in Space"

A summary of NASA efforts using a variety of space systems such as Skylab and ERTS (Earth Resources Technology Satellite) to better understand the environment in which we live with a description of the tangible benefits of this research.

4:30 Social at Hangar (Special Exhibits)

5:00 Buses start leaving for Visitor Parking, Airport and Motels

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