Appendix F

White Papers Received by the Space Technology Panel

(Arranged Alphabetically by Organization)

Aerospace Corp.
28 Jun 95
Mr. Jay Penn

- SSTO Feasibility

Air Force Institute of Technology
26 Apr 95
Dr. William E. Wiesel

- Access to Space

Air Force Office of Scientific Research (AFOSR)/NL
23 Jun 95
Dr. Michael Berman

- High Energy Density Materials

AFOSR/NL
23 Jun 95
Dr. Michael Berman

- Characterization and Scale-Up of HEDM Materials Leading to Increase in Specific Impulse Over Current Propulsion Systems

AFOSR/NA
8 Jun 95
Dr. Mitat Birkan

- Space Propulsion Concepts and Missions

AFOSR/NA
6 Jul 95
Dr. James McMichael

- Microelectromechanical Systems (MEMS)

American Institute of Aeronautics and Astronautics, Inc. and Space Studies Institute
22 May 95
Dr. Tidman, Dr. Burton, Dr. Jenkins, Dr. Witherspoon

- Sling Launch of Materials into Space

John Hopkins University Applied Physics Laboratory
22 May 95
Dr. Vincent Pisacane

- Spacecraft Technology Investment Strategy

Howard University
25 Apr 95
Dr. Peter Bainum, Dr. Feiyue Li, Prof. Guangqian Xing,
Dr. Jianke Xu, Mr. ZhaoZhi Tan, Mr. Raj Kotaru, Ms. Aprille Ericsson, Mr. Raj Pai, Ms. Phyllis Jones

- New Technologies that will Lead to Fundamental Improvements in Space Applications

Howard University
25 Apr 95
Dr. Peter Bainum, Dr. Feiyue Li, Prof. Guangqian Xing, Dr. Jianke Xu, Mr. ZhaoZhi Tan, Mr. Raj Kotaru, Ms. Aprille Ericsson, Mr. Raj Pai, Ms. Phyllis Jones

- Technologies that will Enable New Applications in Space - Tethered System Applications

Iowa State University
27 Apr 95
Dr. John Basart

- Non-Destructive Evaluation of Space Structures

Iowa State University
1 May 95
Dr. Bill Byrd

- Space Technology - The Next Ten to Thirty Years

Iowa State University
1 May 95
Prof. David Holger

- Space Technology for New World Vistas

Feb 95
Allen Thomson

- Satellite Vulnerability: A Post-Cold War Issue? *Space Policy,* Feb 95

NASA
12 Jun 95
Mr. Ivan Bekey

- Future Space Technologies

NASA
4 Jan 94
Mr. Ivan Bekey

- Why SSTO Rocket Launch Vehicles Are Now Feasible and Practical

NETROLOGIC, Inc.
24 May 95
Dr. Dan Greenwood

- "A Proposed Plan for a Lunar-based Power Plant," *Science & Technology in Japan*, Vol 14 (95-1), No 53.

Phillips Lab (PL)/GP
14 Jul 95
Dr. Richard Hendl

- Sensing the Space Environment

PL/GPA
11 May 95
Dr. Arnold Barnes, Jr.

- Weather Modification

PL/GPI
11 May 95
Dr. Dave Gleason

- Precise Tracking & Targeting Satellite Networks

PL/GPI
20 Jul 95
Dr. Robert Huffman

- State of the Art of Ultraviolet Detectors

PL/GPS
11 May 95
Dr. Gregory Ginet

- Space Particle Modification for Defense/Offense

PL/RKF
17 May 95
Dr. Stephen Rodgers, Dr. Patrick Carrick

- Positive Enthalpy Hydrocarbons as RP-1 Additives

PL/VT-X
10 Jul 95
LtCol J. M. Sponable

- Assessing Single Stage To Orbit Feasibility

PL/WSSI
17 May 95
Mr. Charles Pike

- Counterproliferation Sensing Technology: Conductive Polymers

PL/VT-X
17 May 95
Capt Fred Kennedy

- The Integrated Solar Upper Stage (ISUS) Program

PL/LIA
17 May 95
Dr. Paul Merritt

- MEMS Technology for Adaptive Optics

PL/RK
17 May 95
Mr. Wayne Pritz

- Low Cost Space Launch

PL/RK
17 May 95
Mr. Glenn Olson

- POGO Spacelift Concept

PL/RK
17 May 95
Dr. Steve Rogers

- High Energy Density Materials

Science Applications International Corportation (SAIC)
22 Jun 95
Maj Gen (R) Robert Rosenberg

- Future Military Space Systems and the Principles of War (Draft)

SAIC
22 Jun 95
Maj Gen (R) Robert Rosenberg

- Possibilities for the Use of Current & Emerging Technologies to Enhance Future Warfighting Capabilities Using Space Systems (Draft)

Texas Center for Superconductivity
at the University of Houston
20 Jul 95
Z. Xia, K. B. Ma, Q. Y. Chen, R. S. Cooley,
P. C. Fowler, C. K. McMichael, W. K. Chu

- Hybrid Superconducting Magnetic Bearing & Its Frictional Energy Loss and Dynamics

University of Florida
18 Apr 95
Dr. Norman Fitz-Coy

- Recycling to Reduce Space Debris

University of Florida
18 Apr 95
Dr. Gale Nevill

- Closed-Loop Life Support Systems

University of Florida
18 Apr 95
Dr. Malcolm Shuster

- Manufacturing Methods for Complex Systems

University of Florida
18 Apr 95
Dr. Malcolm Shuster

- Smart Sensors

University of Florida
18 Apr 95
Dr. Wei Shyy

- Cost to Launch Demands Improved Propulsion Efficiency

University of Florida
18 Apr 95
Dr. Wei Shyy

- Higher Resolution Observation Requires Improved Thermal Management

University of Illinois at Urbana-Champaign
12 May 95
Prof. R.L. Burton, Prof. J. Economy, Prof. W. K. Jenkins, Prof. G. Papen, Prof. L. H. Sentman, Prof. S. White

- Technology Areas for AF Space Mission

University of Maryland
5 Jul 95
Dr. Preston Carter, Dr. Darryl Pines

- A Comparison of the Hypersoar Trajectory with Traditional Hypersonic Trajectories