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TECHNOLOGY COORDINATION

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TECHNOLOGY COORDINATION PROCESS TO DATE

- **ANNUAL TECHNOLOGY PRIORITIZATION SINCE 1987**

- **OAST LONG RANGE PLAN -- THRUSTS TIED TO OSSA STRATEGIC PLAN**

- **LIAISON ASSIGNED FROM OAST TO OSSA**

- **AUGUSTINE REPORT -- INTEGRATED TECHNOLOGY PLAN**

- **OSSA GRASS ROOTS TECHNOLOGY NEEDS PRIORITIZATION**

- **EXTERNAL REVIEW (OSSA PARTICIPATION) OF ITP**

- **OSSA/SSAAC WOODS HOLE 1991 RETREAT TO REVIEW OSSA MISSIONS**

- **INCREASED EFFECTIVENESS IN TECHNOLOGY INFORMATION EXCHANGE**

- **SSB/ASEB SPRING REVIEW OF OSSA TECHNOLOGY NEEDS CHART**

TECHNOLOGY COORDINATION GOALS

- INJECT NEW TECHNOLOGY INTO OSSA NEXT-GENERATION OF MISSIONS

- MODIFY CURRENT OAST PROGRAM TO BE MORE RESPONSIVE TO OSSA NEAR-TERM NEEDS

- INSTITUTIONALIZE THE PROCESS FROM WHICH TECHNOLOGY REQUIREMENTS ARE INITIATED-- VIA THE INTEGRATED TECHNOLOGY PLAN

- INCREASE THE INTERCHANGE OF SCIENCE AND ENGINEERING PERSONNEL ON OSSA SCIENCE WORKING GROUPS AND OAST TECHNOLOGY WORKING GROUPS

How OAST Can Support OSSA

- FOCUSSED TECHNOLOGY DEVELOPMENT AIMED AT SPECIFIC MISSIONS IN THE OSSA STRATEGIC PLAN

- LONG-TERM, CORE TECHNOLOGY DEVELOPMENT TO ENABLE SMALL AND MODERATE MISSIONS

- INTEGRATED TECHNOLOGY GROUND & FLIGHT DEMONSTRATIONS

- BROADEN PARTICIPATION IN NEW INSTRUMENT TECHNOLOGY PROGRAMS TO INCLUDE A PEER SELECTED UNIVERSITY SCIENCE COMMUNITY

- STRONGER FEEDBACK OF OAST TECHNOLOGY PROGRESS AND MILESTONE ACCOMPLISHMENTS

How OSSA Can Support OAST

- ADHERE TO AN ANNUAL GRASSROOTS TECHNOLOGY NEEDS PROCESS

- ASSIST OAST TO SECURE RESOURCES THAT ARE DIRECTED TOWARD THE HIGHEST PRIORITY OSSA TECHNOLOGY NEEDS

- FORECAST START DATES FOR THE >1998 MISSION QUE

- HELP IDENTIFY FLIGHT EXPERIMENTS AND OPPORTUNITIES TO TEST CRITICAL INSTRUMENT TECHNOLOGIES

STEPS TO TECHNOLOGY TRANSFER

- SELECT A DISCRETE SET OF TECHNOLOGIES THAT ARE OF HIGH PRIORITY TO OSSA

- AA CONCURRENCE ON A TECHNOLOGY TRANSFER PLAN FOR EACH

- GROUND AND/OR FLIGHT DEMONSTRATION TECHNOLOGY PROJECTS FOR EACH

- DEVELOP A CO-FUNDING WEDGE BETWEEN THE PROGRAM OFFICES

- JOINT ASSOCIATE ADMINISTRATOR SEMI-ANNUAL REVIEW OF PROGRESS

- INSTITUTE A TECHNOLOGY TRANSFER TEAM OR PERSON RESPONSIBLE FOR:
  - PUSHING THE TECHNOLOGY TO THE APPROPRIATE READINESS LEVEL
  - MARKETING THE TECHNOLOGY FOR MISSION APPLICATIONS

Recommended Decision Rules

In Priority Order:

- **Complete** the Ongoing Program

- **Provide** Frequent Access to Space for Each Discipline Through New and Expanded Programs of "Small Innovative Missions"

- **Initiate** Mix of "Intermediate/Moderate Profile" Missions to Ensure a Continuous and Balanced Stream of Scientific Results

- **Initiate** "Flagship" Missions that Provide Scientific Leadership and have Broad Public Appeal

- **Invest** in the Future by Increasing the Research Base to Improve Program Vitality and by Developing Needed Future Technologies

- **Build and Utilize** Scientific Instrumentation for Space Station Freedom and **Conduct** a Spacelab Flight Program in a Manner Consistent with the SSF Development Schedule

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