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

- FOCUSED 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