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
SSAAC RECOMMENDATIONS

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