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

R3-3
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