TECHNOLOGY COORDINATION

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TECHNOLOGY COORDINATION PROCESS TO DATE

• ANNUAL TECHNOLOGYPRIORITIZATION 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

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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**