TECHNOLOGY COORDINATION

STEVEN HARTMAN

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

R3-1
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