PRECURSOR SPACE STATION FREEDOM EXPERIMENTS

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ABSTRACT

The NASA Office of Aeronautics and Space Technology uses the In-Space Technology Experiments Program (IN-STEP) as the primary management vehicle to pursue innovative and potentially high payoff space technology experiments. The purpose of this presentation is to provide an overview of the IN-STEP approach in developing precursor Space Station experiments; identify those experiments now in the program; review the key points of the IN-STEP 1992 Announcement of Opportunity; and describe the OAST in-space technology experiments development process.

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- Technology Categories of Interest:
 - (1) Space materials, coatings, and environmental effects
 - (2) Cryogenic fluid handling
 - (3) Human support
 - (4) Space power
 - (5) In-space construction, repair, and maintenance
 - (6) Science sensors and sensor cooling
 - (7) Vibration isolation
 - (8) Space communications
- Key Points:
 - Approximately fifty Phase A proposals to be selected
 - New experiments ready for flight starting 1997
 - Use any suitable carrier--including Space Station Freddom

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