

***INTERNATIONAL UPDATE***

NASA ALUMNI LEAGUE

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## ***INTERNATIONAL UPDATE***

- **Worldwide Outlook for Space**
  - Budget pressures are severe, at home and abroad
  - Cost-sharing through effective cooperation increasingly attractive
  - Increasing interdependence requires more joint planning, not less
  - Joint efforts with non-traditional partners are increasing
  
- **Effects of Zero-Base Review/Headquarters Workforce Review**
  - Confirmed that International function is among Headquarters “corporate” functions
  - Nevertheless, Code I staff also will be downsized
  - Certain functions may be delegated to Centers (e.g., foreign visits approval)
  - Our unique capability to support Strategic Enterprises will remain intact

## ***GORE-CHERNOMYRDIN COMMISSION (GCC)***

- **April 1993 - Presidents Clinton and Yeltsin established the U.S.-Russian Joint Commission on Economic and Technological Cooperation**
  - Chaired by Vice President Gore and Prime Minister Chernomyrdin
  - GCC Space Committee chaired by NASA Administrator Daniel Goldin and Russian Space Agency General Director Yuri Koptev
- **Fifth meeting of GCC to be held in Moscow, June 29-30, 1995. Goals are to highlight recent progress in all areas of cooperation:**
  - Human Space Flight
  - Space Science
  - Mission to Planet Earth
  - Aeronautics
- **Shuttle-Mir Docking will be a highlight of GCC-5 -- operational demonstration of solid progress in cooperation between U.S. and Russia**
- **GCC is valuable forum for enhancing U.S.-Russian space and aeronautics cooperation**

## ***EUROPEAN PARTICIPATION IN THE INTERNATIONAL SPACE STATION***

- **1988 NASA/ESA Space Station Memorandum of Understanding (MOU)**
  - Attached Pressurized Module (APM)
  - Polar Platform
  - Man-Tended Free Flyer (MTFF)
- **March 23, 1995, ESA Council “positive consensus” on contribution**
  - Columbus Orbital Facility (COF)
  - COF utilization plan
  - Ariane-5 with Automated Transfer Vehicle
  - *(Polar Platform moved to IEOS program independent of Space Station)*
- **October, 1995 ESA Council meeting at Ministerial level**
  - Legal and financial endorsement of ESA contribution

## ***COOPERATION WITH JAPAN***

- **International Space Station Program**
  - Contributing the Japanese Experiment Module (JEM) - a multipurpose laboratory
  - Most stable of international partners: fully-funded program, JEM design unchanged from 1988
- **Mission to Planet Earth**
  - Japan is NASA's largest bilateral partner in Mission to Planet Earth
  - MOU for the ADEOS program completed last year
  - MOUs for ASTER and TRMM are near final; both projects involve exchange of flight hardware
- **Cross-Waiver of Liability Agreement**
  - NASA proposed Government-to-Government agreement on liability to solve recurring problem
  - After six months of intense negotiation, agreement was signed April 24, 1995
  - Ratification by Japan's Diet will complete process

## ***COOPERATION WITH EMERGING SPACE PROGRAMS***

- **Brazil**

- NASA and Brazilian counterparts conducted highly successful multi-launch sounding rocket campaign last year from the Alcantara Launch Center
- NASA and the Brazilian Space Agency (AEB) signed MOU May 19, 1995 for Smoke/Sulfate, Clouds and Radiation Experiment Brazil (SCAR-B)
- Brazil and U.S. plan to sign framework agreement on space cooperation in the near future

- **India**

- On May 26, 1995, NASA and NOAA signed a Statement of Intent with India to develop agreements to cooperate in the sharing and analysis of Earth science data
- U.S. to receive new access to Indian data of importance to research and operational users

## ***COOPERATION WITH EMERGING SPACE PROGRAMS (cont.)***

- **Ukraine**
  - NASA exploratory delegation to Ukraine, March 1994
  - Presidents Clinton and Kuchma sign cooperative Agreement, November 1994
  - Areas for cooperation:
    - Telemedicine
    - Space Communications
    - Remote Sensing
    - Space Welding
  - Ukrainian Astronaut to fly on Shuttle