1984 Twenty-First Space Congress Preliminary Program

Canaveral Council of Technical Societies

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TWENTY-FIRST SPACE CONGRESS
COCOA BEACH, FLORIDA
APRIL 24, 25, 26, 1984
PRELIMINARY PROGRAM

CANAVERAL COUNCIL OF TECHNICAL SOCIETIES
Post Office Box 245
Cape Canaveral, Florida 32920
The objective of the Twenty-First Space Congress is to present a series of up-to-the-minute presentations on Space Technology. This year's theme, "New Opportunities in Space," underscores a growth industry with dynamic challenges, vitality, and competition.

The Space Shuttle is fulfilling its promise as an economical and reliable vehicle to deliver payloads to orbit. The development phase has been an unparalleled success. This year, however, the focus is shifting to the operational phase where the name of the game is to increase the launch rate dramatically while holding cost to reasonable levels. This must be done without compromising reliability. The cost of future Shuttle operations will determine the ultimate demand for payload space — hence the potential benefits to mankind. Achieving higher levels of efficiency in Shuttle processing and flight operations becomes of paramount importance and is the subject of a featured panel. As the Space Shuttle goes operational it is appropriate to give special attention to the next major initiative in space — the Space Station. The Space Congress will present a select panel discussion of Space Station missions, schedules, scientific usefulness and key technologies.

A high-level Department of Defense panel will review space activities and future projects. Space represents the new frontier in military science and technology and, as such, plays an expanding role in defensive and offensive strategy and systems.

Paper sessions, which are listed in the pages to follow, cover a broad range of topics from "Machines to Augment Man" to "Commercialization of Space." As in the past, we will have exhibits of state-of-the-art technology provided by major corporations. A high school science fair will be held in conjunction with the Congress.

Please join us for this stimulating symposium. If we can be of assistance, you may contact me or the appropriate member of the staff.
REGISTRATION
Registration will be set up in the Dolphin Room of the Holiday Inn. Sessions will be held in the Manatee Rooms of the Holiday Inn and at the Beach Theatre.

EXHIBITS
Exhibits will include displays of the Space Shuttle, Shuttle payloads, and communication satellites. The exhibit hall will be open to the public Tuesday through Thursday in the Crossway Inn.

YOUTH SCIENCE FAIR
Regional Youth Science Fair displays and demonstrations will be open to the public in the Dolphin Room at the Holiday Inn. Exhibits will be judged and awards presented on Wednesday evening, April 25, immediately preceding the “Meet the Astronauts” panel session.

PIONEERS’ DAY
The Missile, Space and Range Pioneers’ cocktail party and banquet will commence at 7:00 p.m. on Friday evening, April 27, following the TWENTY-FIRST SPACE CONGRESS at the Patrick Air Force Base Officer’s Club. The Pioneers is a non-profit organization founded for the purpose of furthering interest in our nation’s space programs and providing an opportunity for people associated with missile, space and range activities to meet socially and renew acquaintances. Their banquet is an annual event well worth attending. For information write PIONEERS, P. O. Drawer H, Patrick Air Force Base, FL 32925.

AIRLINES
Major airlines serving the Cocoa Beach area through Orlando Jetport include: Air Florida, American, Delta, Eastern, Northwest, Ozark, Pan Am, Republic, TWA, United and USAir. Delta, Eastern and People Express serve the Melbourne airport. Limousine service is available from both airports to Cocoa Beach.

AUTO RENTALS
Reservations and rentals can be made at Cocoa Beach or at the Melbourne and Orlando airports.
Agencies include:
- AVIS
- BUDGET
- ECONO-CAR
- HERTZ

STUDENT DISCOUNT
Students may attend individual panels or paper sessions at a special rate of $2.00 per session payable at the registration desk.

SPONSOR
The TWENTY-FIRST SPACE CONGRESS is sponsored by the Canaveral Council of Technical Societies (CCTS). The Council is composed of the Cape Canaveral area affiliates of 23 national, technical, and professional societies and an advisory group. Included in the group are Brevard Community College, the Brevard Economic Development Council, Florida Institute of Technology, and the Florida Solar Energy Center.

ATTRACTION CENTERS
Late April in Florida is a delightful time of the year for the entire family. The weather is pleasant, the hardy find the Atlantic warm enough for swimming, and the tourist attractions are not yet crowded. Cocoa Beach offers a long stretch of swimming beach, surfing areas, and both deep-sea and shore fishing. One day Sea Escape adventures can be enjoyed from Port Canaveral. Bus tours of the Kennedy Space Center and Cape Canaveral Air Force Station are available from the Visitors Center where a free exhibit-filled space museum can be enjoyed by both children and adults. Within one to two hours drive are - a world of vacation fun in the Magic Kingdom of Walt Disney World and Epcot - Sea World, one of America’s finest marine attractions - the mystery and excitement of Africa in Busch Gardens - the famed Glass Bottom boats at Silver Springs - the beautiful gardens and daily water ski revue with lovely aquamaids at Cypress Gardens - or see the show and be a performer at Circus World.

THE MAP BELOW GIVES THE LOCATION OF EACH ATTRACTION.
PROGRAM

TUESDAY, APRIL 24

KEYNOTE ADDRESS (8:30 a.m. to 9:00 a.m.)
Beach Theater
Speaker: Congressman Bill Nelson
Florida, Eleventh District

PANEL SESSION I (9:00 a.m. to 11:30 a.m.)
DEPARTMENT OF DEFENSE SPACE PROJECTS
Beach Theater
Panel Chairman: Lt. General Forrest McCartney
Commander, Headquarters Space Division
Los Angeles AFS, CA
An up-to-date review of DOD programs status and future plans.

PAPER SESSION I (1:00 p.m. to 4:00 p.m.)
A. INTERNATIONAL AEROSPACE PROGRAMS
Beach Theater
Session Chairman: Dr. Udo Povlvoogt
President, ERNO USA, Inc.
Washington, DC
Timely status review of independent and cooperative programs, featuring mission results.

B. MACHINES TO AUGMENT MAN
Holiday Inn, Manatee Rooms A&B
Session Chairman: Dr. David Flinchbaugh
Senior Staff Specialist
McDonnell Douglas Astronautics Co.
Titusville, FL
Perspectives on robotics, teleoperators, artificial intelligence and automation in space operations.

C. SPACE COMMUNICATIONS
Holiday Inn, Manatee Rooms C&D
Chairman: Mr. Lee F. Blachowicz
Vice President
Government Satellite Communications Division
Harris Corp.
Melbourne, FL
Up-to-date review of technology, capabilities, and status of various programs in space communications.

BANQUET (8:00 p.m.)
Officers' Club, Patrick Air Force Base
Speaker: Mr. Philip E. Culbertson
Associate Deputy Administrator
NASA Headquarters
Washington, DC
WEDNESDAY, APRIL 25

PANEL SESSION II (8:30 a.m. to 11:30 a.m.)
Efficiency & Economy in Space Operations
Beach Theater
Panel Chairman: Mr. Fred M. Haise
President, Grumman Technical Services
Titusville, FL
Issues and approaches critical to realization of greater benefits from finite space operations budgets and resources.

PAPER SESSION II (1:00 p.m. to 4:00 p.m.)
A. Flight and Ground Operations
Beach Theater
Session Chairman: Mr. Thomas E. Utsman
Director of Shuttle Management & Operations
NASA, John F. Kennedy Space Center, FL
Authoritative examination of the evolution and improvement of operational procedures for efficiency and economy with continued safety and mission success.

B. Space Systems Technology
Holiday Inn, Manatee Rooms A&B
Session Co-Chairman: Mr. James L. Hieatt
Manager, Scientific Satellite Systems, TRW
Redondo Beach, CA
Session Co-Chairman: Mr. Allen I. Louviere
Assistant Director for Program Development
NASA, Lyndon B. Johnson Space Center
Houston, TX
Comprehensive look at maturity of key technologies, pacing requirements, and potential new applications.

C. Innovative Technology Applications
Holiday Inn, Manatee Rooms C&D
Session Chairman: Dr. Michael W. Vannier
Assistant Professor of Radiology
The Edward Mallinckrodt Institute of Radiology
St. Louis, MO
New developments and applications of space related technology with examination of potential benefits.

PANEL SESSION III (8:00 p.m. to 9:30 p.m.)
Meet the Astronauts
Beach Theater
Panel Chairman: Mr. Richard G. Smith
Center Director, NASA
John F. Kennedy Space Center, FL

THURSDAY, APRIL 26

PANEL SESSION IV (8:30 a.m. to 11:30 a.m.)
Space Station & Other New Programs
Beach Theater
Panel Chairman: Mr. Philip E. Culbertson
Associate Deputy Administrator
NASA Headquarters, Washington, DC
Current status of program plans, technology projections, development and operations requirements.

Luncheon (11:45 a.m.)
Holiday Inn, Manatee Rooms
Speaker: TBA

PAPER SESSION III (2:00 p.m. to 5:00 p.m.)
A. Future Space: Transportation and Missions
Beach Theater
Session Chairman: Mr. Paul F. Holloway
Director for Space, NASA
Langley Research Center, Hampton, VA
A broad but definitive look at requirements and proposed future transportation systems including Shuttle Derived Vehicles, Orbital Transfer Vehicles and advanced concepts.

B. STS Flight Experiments
Holiday Inn, Manatee Rooms A&B
Session Chairman: Mr. Michael J. Sander
Director, Spacelab Flight Division
NASA Headquarters, Washington, DC
An insight of significant current and future flight experiments.

C. Commercialization of Space
Holiday Inn, Manatee Rooms C&D
Session Chairman: Mr. David J. Stoddard
Director, Communications
American Society of Aerospace Pilots
Schaumburg, IL
Comprehensive and timely discussion of principal thrusts in commercialization.

FRIDAY, APRIL 27

Missile, Space and Range Pioneers Annual Banquet (7:00 p.m. to 10:00 p.m.)
Officer’s Club, Patrick Air Force Base
Held in conjunction with Space Congress.