



Space Congress Programs

4-24-1984

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

NONPROFIT
ORGANIZATION
U.S. POSTAGE
PAID
CAPE CANAVERAL, FLA.
32920
PERMIT NO. 7

REGISTRATION FORM

CLIP AND MAIL
WITH CHECK TO:

James H. Beardall
Registration Chairman

TWENTY-FIRST SPACE CONGRESS
230 Artemis Blvd.
Merritt Island, FL 32953

MAKE CHECK PAYABLE TO:
Twenty-First Space Congress

Cost
\$75

PACKAGE REGISTRATION
(Includes 4 items listed below)

Tuesday Banquet	20
Thursday Luncheon	8
Proceedings	30
Registration	25

NAME _____ POSITION _____
HOME ADDRESS _____ COMPANY _____
CITY _____ STATE _____ ZIP _____
SPOUSE'S NAME (if attending) _____

CHAIRMAN'S MESSAGE



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.

Russell M. Barnes
General Chairman
Twenty-First Space Congress

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
- ECONO-CAR
- BUDGET
- 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.

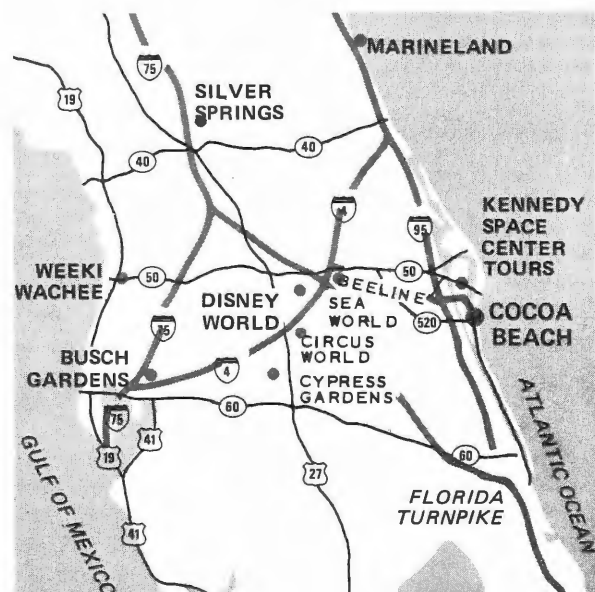
SPONSOR

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.



CLIP AND
MAIL TO EITHER

CROSSWAY INN
3901 N. ATLANTIC AVENUE
COCOA BEACH, FL 32931
(305) 783-2221

OR

HOLIDAY INN
1300 N. ATLANTIC AVENUE
COCOA BEACH, FL 32931
(305) 783-2271

** All reservations should be made by March 22, 1984

Motel reservations for the 21st Space Congress

Please Print or Type

Name _____

Address _____

City _____

State _____

Zip _____

Phone _____

PLEASE INDICATE DESIRED ACCOMMODATIONS

Arrival Date _____

Departure Date _____

Number rooms 1 double bed _____

Number rooms 2 double beds _____

Reservations must be guaranteed by a major credit card or advance deposit of one night's room rental.
CREDIT CARD NAME (Circle one) MC, VISA, AMEX, DINER'S, CARTE BLANCHE
Credit Card Number _____

Attn. Reservation Manager
Special Request: _____

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 Pollvogt
President, ERNO USA, Inc.
Washington, DC
Timely status review of independent and coopera-
tive 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 communica-
tions.

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

THURSDAY, APRIL 26

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. Hiatt
Manager, Scientific Satellite Systems, TRW
Redondo Beach, CA
and

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

PANEL SESSION IV (8:30 a.m. to 11:30 a.m.)

Beach Theater

SPACE STATION & OTHER NEW PROGRAMS

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.