



Space Congress Programs

4-26-1988

1988 Twenty-Fifth Space Congress Preliminary Program

Canaveral Council of Technical Societies

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TWENTY-FIFTH SPACE CONGRESS

COCOA BEACH, FLORIDA

APRIL 26, 27, 28, 29, 1988

PRELIMINARY PROGRAM

CHAIRMAN'S MESSAGE



The **Space Congress' Twenty-Fifth Meeting** will be a memorable one. This year's theme of **Heritage — Dedication — Vision**, befits our Silver Anniversary. The past — present — and the future will be examined in depth by professionals in our ever expanding space disciplines.

May I invite you to participate in all our activities for four fully planned days. From the opening remarks, the panels, papers, debates, banquets and lunches will focus on an industry that flourishes again. We must examine history to discover lessons learned. We must rededicate all our existing energies to current and future requirements. Vision is required to examine the routes that will lead to the next meaningful discoveries. Join an extremely skilled group of space buffs in the exciting discovery of things to be.

We have increased the activity level for this celebration to include a "Meet the Press Panel" during a working lunch; upgraded international participation; expanded display areas; and added panels in a mini-format. Of course, the traditional stand-bys that you are familiar with have not changed. These activities vary with a challenge from Congressman Bill Nelson at the kick-off, to the Youth Science Fair, an evening banquet with Secretary of the United States Air Force, Edward C. 'Pete' Aldridge, Jr., a luncheon with a yet-to-be-named speaker and the Thursday 'Meet the Astronauts' panel session.

The **TWENTY-FIFTH ANNIVERSARY** will be a silver affair that you wouldn't dare miss. Come join and participate with us, in the stimulating atmosphere which represents the prelude for the next quarter of a century in the use of space for research, national defense and commercial purposes.

See you there!

A handwritten signature in dark ink, appearing to read 'W. E. Fields'.

W. E. Fields
General Chairman
Twenty-Fifth 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 in the Discovery and Atlantis Rooms of the Howard Johnson Plaza-Hotel. Fill out form on reverse side to pre-register by mail. Register early to assure Banquet tickets. Registration also available for partial attendance at \$5.00 per session.

EXHIBITS

Exhibits will include displays of the Space Shuttle, Shuttle Payloads, Space Station, Expendable Launch Vehicles, and Communication Satellites. The Exhibit Hall will be open to the public daily at 11:00 a.m. Tuesday and Wednesday and 9:00 a.m. on Thursday in the Cocoa Beach Hilton.

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 Thursday evening, April 28, immediately preceding the "Meet the Astronauts" panel session.

STUDENT DISCOUNT

Student may attend individual panel or paper sessions at a special rate of \$2.00 per session payable at the registration desk.

SPONSOR

The **TWENTY-FIFTH SPACE CONGRESS** is sponsored by the Canaveral Council of Technical Societies (CCTS). The council is composed of the Cape Canaveral area affiliates of 26 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, the Florida Solar Energy Center, and Embry-Riddle Aeronautical University. CCTS Societies:

- Air Force Association
- Armed Forces Communication Electronics Association
- American Institute of Architects
- American Institute of Aeronautics & Astronautics
- American Institute of Industrial Engineers
- American Meteorological Society
- American Society of Civil Engineers
- American Society of Heating, Refrig. & A/C Engineers
- American Society for Industrial Safety
- American Society of Mechanical Engineers
- American Society for Nondestructive Testing
- American Society for Quality Control
- American Society of Safety Engineers
- American Society for Training and Development
- American Welding Society
- Florida Engineering Society
- Institute of Electrical & Electronic Engineers
- Instrument Society of America
- Missile, Space & Range Pioneers, Inc.

National Contract Management Association
 National Association of Accountants
 Society of Manufacturing Engineers
 Society for the Advancement of Materials & Process Engineering
 Society of Logistics Engineers
 Society of Photo-Optical Instrumentation Engineers
 Society for Technical Communication
 Space Round Table

PIONEERS' DAY

The Missile, Space and Range Pioneers' cocktail party and banquet at the Patrick Air Force Base Officer's Club will commence at 7:00 p.m. on Friday evening, April 29, following the TWENTY-FIFTH SPACE CONGRESS. 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. For information write PIONEERS, P.O. Drawer H, Patrick Air Force Base, FL 32925.

PARKING:

Limited parking is available at the Howard Johnson Hotel, where the opening ceremony and several Paper Sessions and Panel Sessions will be held. Arrangements have been made to use Lori Wilson Park, between the Holiday Inn and the Hilton Hotel. Buses will make regular runs to all Space Congress facilities.

AIRLINES

Major airlines serving the Cocoa Beach area through **Orlando International Airport** include: American, Braniff, British Airways, Continental, Delta, Eastern, Florida Express, Icelandic Air, Midway Metrolink, Pan Am, Piedmont, TWA, United, and USAir. Major airlines serving the **Melbourne Airport** include: American, Delta, Eastern, and Presidential. Limousine and van services are available from both airports to Cocoa Beach.

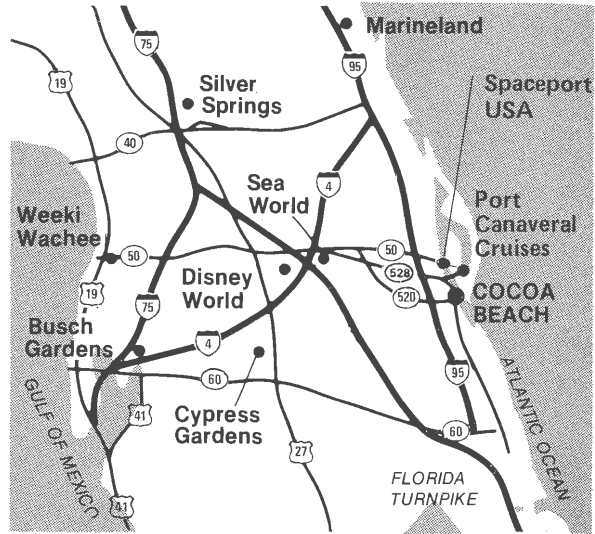
AUTO RENTALS

Reservations and rentals can be made at Cocoa Beach or at the Melbourne and Orlando airports. Agencies include:

American International	ECONO-CAR
AVIS	HERTZ
BUDGET	NATIONAL
U-SAVE	USA

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 tourist attractions are not yet crowded, **Cocoa Beach** offers a long stretch of swimming beach, surfing areas, and both deep-sea and shore fishing. **Sea Escape** one day cruises and three and four day cruises aboard the **SS Oceanic** or the **SS Royale** can be enjoyed from Port Canaveral. Bus tours of the **Kennedy Space Center** and **Cape Canaveral Air Force Station** are



available from the **Spaceport, USA** where a free exhibit-filled space museum can be enjoyed by both children and adults.

Within one to two hours drive is a world of vacation fun in the Magic Kingdom of **Walt Disney World** and **Epcot Center** — **Sea World**, one of America's finest marine attractions — the mystery and excitement of Africa in **Busch Gardens** — famed Glass Bottom boats at **Silver Springs** — the beautiful gardens and daily water ski revue with lovely aquamaids at **Cypress Gardens**.

SPACE CONGRESS GOLF TOURNAMENT

Golfers can enjoy a tournament at the Patrick AFB Course on Friday, April 29th.

The tournament will be a four player, select shot format, as in the past. You may sign up with **one partner** or by yourself. The tournament committee will assign teams based on playing ability. Fill in your name and average score for 18 holes on the registration form, along with the same from your partner, and enclose \$25, each person, for the fee. A maximum of 128 players will be registered on a first come, first in basis. Lunch, refreshments on the course, green fees, carts, and trophies are included in the fee. Lunch at 11:30 a.m., and shotgun start at 1:00 p.m. will allow completion in time for Pioneers' Banquet attendance. Maps are available at registration desk.

Transfer of golf registration will be permitted with notification by April 14th. No refunds will be made after April 1st.

INFORMATION

Further questions regarding participation in the TWENTY-FIFTH SPACE CONGRESS should be directed to Twenty-Fifth Space Congress, P.O. Box 1333, Cocoa Beach, FL 32931.

PROGRAM

TUESDAY, APRIL 26

KEYNOTE ADDRESS (8:30 a.m. to 9:00 a.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

Speaker: Congressman Bill Nelson
Florida, Eleventh District
Member, Committee on Banking, Finance,
and Urban Affairs
Member, Committee on Science & Tech-
nology
Chairman, Subcommittee on Space
Science & Applications

PANEL SESSION I (9:00 a.m. to 11:30 a.m.)

SPACE SHUTTLE RETURN TO SPACE

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

Panel Chairman: Mr. Arnold D. Aldrich
Director, NSTS Program Office
NASA Headquarters, Washington, D.C.
Current status of program technical activities,
and schedules.

LUNCHEON (12:00 noon to 1:30 p.m.)

Holiday Inn, Manatee Room

MEET THE PRESS

Panel Chairman: Mr. William B. Harwood
Vice President, Public Relations, Martin Marietta
Corporation, Bethesda, MD

PAPER SESSION I (2:00 p.m. — 5:00 p.m.)

A. COMMERCIAL ASPECTS OF SPACE RESEARCH AND TECHNOLOGY

Howard Johnson Plaza-Hotel, Discovery Room

Session Chairman: Mr. Ronald Thornton
Director, NASA-Southern Technology Applications
Center, University of Florida

The impact of the aerospace industry and NASA
on the United States' technology base as well as
a status on current commercial space related
activities.

B. THE BUSINESS OF SPACE BUSINESS

Howard Johnson Plaza-Hotel, Atlantis Room

Session Chairman: Rear Admiral Stuart J. Evans,
(USN, Retired)

Assistant Administrator for Procurement
NASA Headquarters, Washington, D.C.

In-depth review of new as well as changing regu-
lations and practices which affect the way the
government and private industry must operate in
the aerospace endeavors.

C. ROBOTICS

Holiday Inn, Manatee Room

Session Chairman: Lt. Col. Gerald Haynes, (U.S.
Air Force, Space Division, Project Management)

Latest advances in research and development of
robotics technology for applications to space
and ground based operations.

SPACE CONGRESS BANQUET

Howard Johnson Plaza-Hotel

Social Hour: 7:00 p.m.

Dinner: 8:00 p.m.

Program: 9:00 p.m.

Speaker: Secretary of the United States Air Force,
Edward C. 'Pete' Aldridge, Jr.

WEDNESDAY, APRIL 27

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

SPACE STATION

Howard Johnson Plaza-Hotel, Challenger Main
Ballroom

Panel Chairman: Mr. Andrew J. Stofan
Associate Administrator for Space Station
NASA Headquarters, Washington, D.C.

Current status of program technical activities,
schedules and major challenges.

LUNCHEON (12:00 noon to 1:30 p.m.)

Holiday Inn, Manatee Room

Speaker: To Be Announced

PAPER SESSION II (2:00 p.m. to 5:00 p.m.)

A. LUNAR BASE DEVELOPMENT

Howard Johnson Plaza-Hotel, Discovery Room

Session Chairman: Dr. Michael Duke
Chief, Solar System Exploration Division
Johnson Space Center, TX

A look at the latest planning for going back to
the moon and some ideas for building and oper-
ating a lunar station.

B. SPACE STATION TECHNOLOGIES

Howard Johnson Plaza-Hotel, Atlantis Room

Session Chairman: Dr. James W. Johnson
Deputy Program Manager, Space Station Project
Office

John F. Kennedy Space Center, FL

Status of developing technologies specifically
designed for meeting the objectives of the inter-
national space station.

C. ARTIFICIAL INTELLIGENCE APPLICATIONS

Holiday Inn, Manatee Room
Session Chairmen:

Mr. E. Rachovitsky
Air Force Wright Aeronautical Laboratories
Wright Patterson Air Force Base, OH

Mr. Robert E. Dalton
A. I. Advanced Development
Vitro Corporation, Silver Spring, MD

A review of recent successful practical uses of
Expert Systems in various technical disciplines
and operations.

COCKTAIL PARTY (5:45 p.m. to 7:00 p.m.)

Cocoa Beach Hilton, Exhibit Hall

THURSDAY, APRIL 28

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

DEPARTMENT OF DEFENSE SPACE PROJECTS
Howard Johnson Plaza-Hotel, Challenger Main
Ballroom

Panel Chairman: Lt. Gen. Aloysius G. Casey
Commander, Space Division, AFSC
Los Angeles AFS, CA

Reexamination of requirements and resources for
overall program activities.

PAPER SESSION III (1:00 p.m. to 4:00 p.m.)

A. MISSION TO MARS CONCEPTS

Howard Johnson Plaza-Hotel, Discovery Room
Session Chairman: Mr. John Aaron
Assistant Administrator for the Office of Exploration
NASA Headquarters, Washington, D.C.

Several viewpoints on the technical as well as
political issues involved in developing ways and
means to go to Mars and return.

B. LAUNCH VEHICLES OF THE FUTURE

Howard Johnson Plaza-Hotel, Atlantis Room
Session Chairman: Lt. Col. Cort Durocher, USAF
Deputy Director, Advanced Launch System
Hq Space Division, Los Angeles, CA

Next generation national and international
launch vehicles, their configurations, capabilities,
technologies, and applications.

C. SYSTEMS AUTOMATION

Holiday Inn, Manatee Room
Session Chairman: Mr. William H. Rock
Manager, Advanced Projects, Technology and Com-
mercialization Office
John F. Kennedy Space Center, FL

A survey of the latest developments in computer
capabilities and a preview of things to come.

SPACE CONGRESS RECEPTION (6:00 p.m. to 8:00 p.m.)

Holiday Inn Deck

PANEL SESSION IV (7:30 p.m. to 9:30 p.m.)

MEET THE ASTRONAUTS

Howard Johnson Plaza-Hotel, Challenger Main
Ballroom

Panel Chairman: Lt. Gen. Forrest S. McCartney,
USAF Retired

Center Director, NASA
John F. Kennedy Space Center, FL

Shuttle astronauts to be named.

FRIDAY, APRIL 29

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

**EXPENDABLE LAUNCH VEHICLES ACCESS TO
SPACE**

Howard Johnson Plaza-Hotel, Challenger Main
Ballroom

Session Chairman: Col. Victor W. Whitehead
Assistant Deputy Commander for Launch Systems
Space Division, AFSC, Los Angeles AFS, CA

The status of expendable launch vehicles in their
role of providing assured access to space.

PAPER SESSION IV (12:45 p.m. to 3:15 p.m.)

A. SPECIAL SUBJECTS

Howard Johnson Plaza-Hotel, Discovery Room
Session Chairman: Mr. Samuel T. Beddingfield
Beddingfield Aerospace Consultants, Titusville, FL
Topics of interest in space education and
awareness.

B. COMMERCIAL SPACE ENTERPRISES

Howard Johnson Plaza-Hotel, Atlantis Room
Session Chairman: Dr. Joseph A. Angelo
Director, Advanced Technology, EG&G, Inc.
Rockledge, FL

Specific examples of the private sector's utiliz-
ation of space related research and technology
for the development of new product lines.

SPACE CONGRESS GOLF TOURNAMENT

11:30 a.m. to 5:00 p.m. (Approx.)

Patrick Air Force Base Golf Course

**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