

Space Congress Programs

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1995 Thirty-Second Space Congress Preliminary Program

Canaveral Council of Technical Societies

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Canaveral Council of Technical Societies

P.O. Box 321333

Cocoa Beach, Florida 32932

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ORGANIZATION
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COCOA, FL 32922
PERMIT NO. 138

PRELIMINARY PROGRAM



Thirty-Second Space Congress

People and Technology -
The Case for Space

Cocoa Beach, Florida

April 25, 26, 27, 28, 1995

Chairman's Message



The **Thirty-Second Space Congress** builds upon last year's program by continuing to focus on the utilization of space to the benefit of mankind. Our theme "**People and Technology - The Case for Space**" has led us to a program which demonstrates the importance of the space program to our everyday lives, and provides exciting insight on mankind's continuing exploration of space.

The aim of this Space Congress is to share recent advancements in our program for the utilization of space and to make the public aware that space exploration is good — good for the individual, good for the economy, and good for improving quality of life throughout the world.

There will be four major panel sessions of this Congress discussing the Government's Role in Nurturing the Nation's Space Industry and the important contributions of space exploration to such vital issues as protection of the environment and maintaining world peace; International Space Station Alpha's 1st Year Report Card, its evolution and effects on people working in space and lunar exploration; Promoting Space, its spin-offs, setbacks and role in education; and Future Space, where we are going and what we will be doing in space in the future. The technical papers presented provide detailed insight on such topics as competition in the utilization of space and advanced technology, Space Station Alpha, space education, research and products, and technical concepts for future steps. We are joined in this effort by a distinguished group of speakers, panel members and technical paper presenters. Our presenters are intimately involved in these areas. The space oriented exhibits presented by many of the leading aerospace companies will add to your knowledge of space exploration. Our Science Fair and "Meet the Astronauts" panel will motivate our youth to become involved in the exciting careers available to those who want to participate in the exploration of space.

The Space Congress is sponsored by the Canaveral Council of Technical Societies (CCTS) and supported by the National Aeronautics and Space Administration (NASA) and the Department of Defense (DoD). In addition, the Space Congress communities, local aerospace contractors and citizens are instrumental in putting together this most informative symposium and helping the Space Congress maintain its well deserved reputation as the premier conference on space technology. This year will be no exception.

On behalf of myself and this year's committee, welcome to the **Thirty-Second Space Congress**, a presentation of **The Case for Space**.

A handwritten signature in black ink, appearing to read "J. L. 'Skip' Olson".

J. L. "Skip" Olson
General Chairman
Thirty Second Space Congress

Registration

Headquarters for the **Thirty-Second Space Congress** is the Holiday Inn, Cocoa Beach. Please stop there, at the Registration Desk in the Dolphin Room, when you first arrive at Space Congress. Registration will open at noon on Monday, April 24, 1995, and at 7:00 a.m. on Tuesday through Friday, and close at 5:00 p.m., except noon on Friday. Tickets, badges, and pre-registration packages are picked up there. Fill out the form on the reverse side of this brochure to pre-register by mail. Registration is also available for partial attendance at \$10.00 per session. Sessions will be held at the Holiday Inn and Howard Johnson Plaza-Hotel. The banquet will be held this year at the Radisson Resort at the Port on Tuesday evening, with **open seating**. Register early to assure banquet tickets. Banquet tickets will also be available at the Registration Desk until 5:00 p.m. on Tuesday, April 25, unless sold out earlier. Requests for refunds will not be honored after April 10, 1995 (postmark).

Exhibits

Exhibits will include a Showcase Exhibit, computer graphics demonstrations and displays of the Space Shuttle, Shuttle Payloads, Space Station, Expendable Launch Vehicles, and other space related activities. The Exhibit Halls will be open to the public in the Cocoa Beach Hilton and the Comfort Inn & Suite Resort on the following schedules: Tuesday - 11:00 a.m. to 7:00 p.m.; Wednesday - 11:00 a.m. to 8:00 p.m.; and Thursday - 9:00 a.m. to 3:00 p.m.

Youth Science Fair

Regional Youth Science Fair displays and demonstrations will be open to the public Tuesday through Thursday, in the Dolphin Room at the Holiday Inn. Exhibits will be judged and awards presented on Thursday evening, April 27, immediately preceding the "Meet the Astronauts" panel session.

Student Discount

Students may attend panel or paper sessions at no charge. Students must, however, check in at the Registration Desk.

Sponsor

The **Thirty-Second Space Congress** is sponsored by the Canaveral Council of Technical Societies (CCTS). The council is composed of the Cape Canaveral area affiliates of 30 national, technical, and professional societies and an advisory group. Included in the advisory group are Brevard Community College, Embry-Riddle Aeronautical University, Florida Institute of Technology, the Florida Solar Energy Center, and The University of Central Florida.

CCTS Member Societies:

- Air Force Association (Cape Canaveral Chapter)
- American Institute of Aeronautics & Astronautics
- American Meteorological Society
- American Society of Civil Engineers
- American Society of Heating, Refrig. & A/C Engineers
- American Society for Industrial Security
- American Society of Mechanical Engineers
- American Society for Quality Control
- American Society of Safety Engineers
- American Society for Training and Development
- American Welding Society
- Armed Forces Communication Electronics Association
- Florida Engineering Society
- Florida Space Business Roundtable
- Human Factors and Ergonomics Society
- Institute of Electrical & Electronic Engineers

Institute of Industrial Engineers
 Missile, Space & Range Pioneers, Inc.
 NASA Alumni League
 National Contract Management Association
 National Space Club
 Society for Technical Communication
 Society of American Military Engineers
 Society of Logistics Engineers
 Society of Manufacturing Engineers
 Society of Women Engineers
 Associate Members:
 Association for Quality and Participation
 National Management Association, Florida Space Coast Council
 USAF Space & Missile Museum Foundation

Pioneers' Banquet

The Missile, Space and Range Pioneers' cocktail party and banquet at the Patrick Air Force Base Officers' Club will commence at 6:30 p.m. on Friday evening, April 28, following the **Thirty-Second 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. Box 5227, Patrick Air Force Base, FL 32925-1227.

Parking

Limited parking is available at the Howard Johnson Plaza-Hotel, where the opening ceremony and several Paper Sessions and Panel Sessions will be held. Arrangements have been made to use the Cape Royal Building, Holiday Inn and Hilton Hotel parking lots. Buses will make regular runs to all Space Congress facilities.

Airlines

Major airlines serving the Cocoa Beach area through the **Melbourne Regional Airport** include: American, Continental, Delta, ComAir, USAir and United Express. Major airlines serving the Cocoa Beach area through the **Orlando International Airport** include: Aeropostal, All Nippon, American, British Airways, ComAir, Continental, Delta, Martin Air, Northwest, TWA, United, USAir, Air Jamaica, America West, American Trans Air, Iceland Air, Kiwi, LTU, Paradise Island, Trans Brasil, and Virgin Atlantic. Limousine and van services are available from both airports to Cocoa Beach.

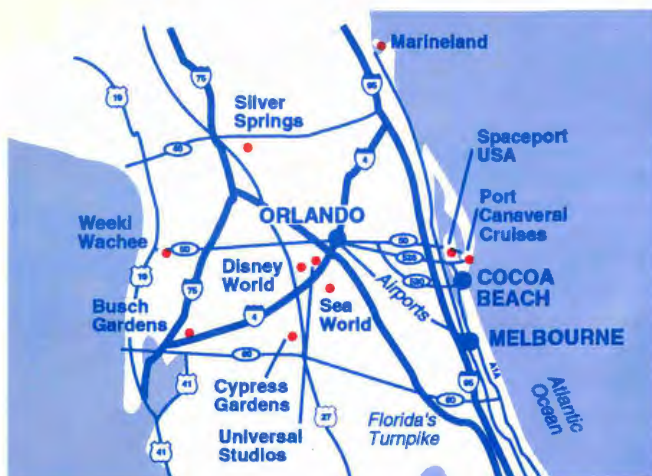
Auto Rentals

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

Hertz	Avis	National
Budget	Dollar	General
Americar (at Radisson, Cape Canaveral)		

Attraction Centers

Late April in Florida is a delightful time of 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. Three and four-day cruises aboard the **SS Oceanic**, the **SS Atlantic** or the **Fantasy** can be enjoyed from Port Canaveral. Bus tours



of the **Kennedy Space Center** and **Cape Canaveral Air Force Station** are available from **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 at **Walt Disney World** in the **Magic Kingdom**, **Epcot Center**, or **Disney/MGM Studios - Universal Studios, Florida - 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** - or the beautiful gardens and daily water ski revue with lovely aquamaids at **Cypress Gardens**.

Space Congress Golf Tournament

Golfers will be able to enjoy a tournament at the Patrick AFB Course on Friday, April 28.

The tournament will be a "scramble" 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. Foursomes may sign up if they provide a combined total certifiable handicap of 55 or higher. Fill in your name and average score or handicap for 18 holes on the registration form, along with the same from your partner, and enclose \$50.00 for each person. A maximum of 144 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. Buffet lunch from 11:30 a.m., and shotgun start at 1:00 p.m. Maps are available at the Registration Desk.

Registration name change will be permitted with notification up to April 26.

Information

Further questions regarding participation in the **Thirty-Second Space Congress** should be directed to: **Thirty-Second Space Congress**, P.O. Box 321333, Cocoa Beach, FL 32932. Telephone answering service for faster response: 407-868-1623, (Fax 407-783-5579).

PROGRAM

TUESDAY, APRIL 25

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

Speaker: General Thomas S. Moorman, Jr.
Vice Chief of Staff, USAF

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

GOVERNMENT'S ROLE IN NURTURING THE NATION'S SPACE INDUSTRY

Panel Chairman: Maj. General Robert S. Dickman, SAF/AQS
A discussion of what government and industry leaders are doing to promote the use of space and the derived results from a strong space presence.

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

Holiday Inn, Manatee Room

Speaker: Astronaut Fred Haise

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

A. COMPETITION IN THE UTILIZATION OF SPACE

Howard Johnson Plaza-Hotel, Atlantis/Discovery Rooms

Session Chairman: Dr. Robert W. Clarke, Special Assistant to the Associate Administrator, International Affairs, NASA Headquarters, Washington, DC

A look at other space programs trying to capitalize on the economic benefits possible through developing space capabilities.

B. WORLD PEACE THROUGH VIGILANCE AND DILIGENCE

Howard Johnson Plaza-Hotel, Columbia/Enterprise Rooms

Session Chairman: Col. Tim McMahon, AF Space Command, Deputy Director of Operations

Successful military uses of space to secure and maintain world peace.

C. NURTURING OUR ENVIRONMENT

Holiday Inn, Manatee Rooms A and B

Session Chairman: Mr. William F. Townsend, Deputy Associate Administrator, Office of Mission to Planet Earth, NASA Headquarters, Washington, DC

Preserving our natural resources through observation in the "Mission to Planet Earth".

SPACE CONGRESS BANQUET

Radisson Resort at the Port, Grande Caribbean Ballroom

Social Hour: 7:00 p.m.
Dinner: 8:00 p.m.
Program: 9:00 p.m.
Speaker: Personality from Apollo 13 Movie (Invited)

WEDNESDAY, APRIL 26

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

SPACE STATION - INTERNATIONAL SPACE STATION ALPHA'S ONE YEAR REPORT CARD

Panel Chairman: Doug Stone, Program Manager, Boeing
Status of the national and international progress on configuration, product group hardware, roles and responsibilities.

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

Holiday Inn, Manatee Room

Topic: International Space - Culture Challenge

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

A. THE EVOLUTION OF ISSA

Howard Johnson Plaza-Hotel, Atlantis/Discovery Rooms

Session Chairman: Randy Brinkley, Program Manager, International Space Station Alpha, NASA Space Station Program Office, Johnson Space Center, Houston, TX

Recent changes, new additions, flight manifesting to the completion of Space Station.

B. PEOPLE WORKING IN SPACE, THE NEEDS AND THE EFFECTS

Howard Johnson Plaza-Hotel, Columbia/Enterprise Rooms

Session Chairman: Dr. Wyck Hoffer, Deputy Director, Biomedical Operations and Research Office, Kennedy Space Center, FL

What's needed to survive long term space presence? Tools and devices developed for space utilization.

C. LUNAR INDUSTRIALIZATION AND COLONIZATION

Holiday Inn, Manatee Rooms A and B

Session Chairman: Hyam Benaroya, Dept. of Mechanical and Aerospace Engineering, Rutgers University, Piscataway, NJ

An international view of the values to be derived by extraterrestrial habitation.

EXHIBIT RECEPTION (6:00 p.m. to 7:30 p.m.)

Cocoa Beach Hilton, Exhibit Hall and Comfort Inn & Suite Resort Exhibit Hall, Cocoa Beach

THURSDAY, APRIL 27

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

PROMOTING SPACE

Panel Chairman: Sam Iacobellis, Executive Vice President, Rockwell
What the major aerospace companies are doing for their people and for the nation.

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

A. SPIN-OFFS AND SETBACKS

Howard Johnson Plaza-Hotel, Atlantis/Discovery Rooms

Session Chairman: Dr. Paul Curto, Inventions and Contributions Board, NASA Headquarters, Washington, DC

What has worked, what has worked well, and what has not worked so well in the field of space derivatives.

B. AEROSPACE TECHNOLOGY AS APPLIED TO EVERYDAY LIFE Howard Johnson Plaza-Hotel, Columbia/Enterprise Rooms

Session Chairman: Dr. William Gasko, Director, Center for Technology Commercialization, Inc., Westborough, MA

The most important NASA innovations in the last five years.

C. EDUCATION, SPACE FOR TOMORROW Holiday Inn, Manatee Rooms A and B

Session Chairman: Mr. Tracey Bailey, Director of Education and Technology, Astronauts Memorial Foundation, Center for Space Education, Kennedy Space Center, FL

Building our space future through all levels of our education systems.

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

Holiday Inn Deck

MEET THE ASTRONAUTS (7:00 p.m. to 9:00 p.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

Panel Chairman: Robert L. Crippen, Center Director, NASA, Kennedy Space Center, FL

FRIDAY, APRIL 28

PANEL SESSION IV (8:30 a.m. to 11:00 p.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

FUTURE SPACE

Panel Chairman: John E. Mansfield, Associate Administrator, Office of Space Access and Technology, NASA Headquarters, Washington, DC

Results, status and plans for continued space exploration and development: The Next Generation.

SPACE CONGRESS GOLF TOURNAMENT

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

Patrick AFB Golf Course

(Buffet lunch from 11:30 a.m. Shotgun start at 1:00 p.m.)

MISSILE, SPACE & RANGE PIONEERS' ANNUAL BANQUET

6:30 p.m. to 10:00 p.m.

Officers' Club, Patrick AFB

Held in conjunction with Space Congress.

