



Space Congress Programs

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1997 Thirty-Fourth Space Congress Preliminary Program

Canaveral Council of Technical Societies

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Thirty-Fourth Space Congress
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PRELIMINARY PROGRAM



**Our Space Future -
Uniting For Success**

Cocoa Beach, Florida
April 29 - May 2, 1997

Chairman's Message

The **Thirty-Fourth Space Congress** continues a tradition of being nationally recognized as the oldest continuous space related symposium on record. This year's program is based on the theme, "**Our Space Future - Uniting For Success.**"

The objective of this Space Congress is to demonstrate how unity and cooperation have led to technological triumphs in the demanding realm of space and to examine ways that can lead to success for the future. Rather than having the panel and paper sessions on a particular day constrained to the scientific, commercial, and military sectors of the space program, we have opted to seek panel members from those three sectors as well as the educational arena to address the topics. Another key change this year will be the presentation of supporting papers in each of the four areas of scientific, commercial, military, and education each afternoon on Tuesday, Wednesday, and Thursday. This will allow attendees with diversified interests to maximize their opportunities for participation throughout Space Congress paper sessions.

We will retain the five major panel session format for the **Thirty-Fourth Space Congress**. The first panel session of the Congress will take a retrospective view of **Space Successes and Failures** which have contributed to the present status of space programs. In addition to dealing with launch and on-orbit operations, the panel will address issues such as corporate restructuring, major process/technology initiatives, and trends in international activities. The main thrust will be to review what we can learn from the past about space programs of today. The second panel's theme of **Uniting for Success** will provide a relevant snapshot of cooperative approaches which will benefit the space program. This panel will discuss the synergy of partnering efforts in the space industry. The Congress' third major panel will explore **Our Space Future** and examine spacecraft, launch systems, technology, and business practices for successful programs as they evolve in the future. Wrapping up the morning major panel series, **A New Beginning** will be a roundtable discussion on the roadmap necessary to attain the objectives identified from the previous morning panels of the **Thirty-Fourth Space Congress**. Returning this year are the very popular Science Fair with expanded participation opportunities and the Thursday evening **Meet the Astronauts** panel session; something our younger attendees have repeatedly found to be their own highlight of the week's activities.

The Space Congress is sponsored by the Canaveral Council of Technical Societies (CCTS) and supported strongly by the National Aeronautics and Space Administration (NASA) and the Department of Defense (DOD). In addition, the surrounding communities, aerospace contractors, and local volunteers are instrumental in putting together this most informative symposium and helping Space Congress maintain its well deserved reputation as the premier conference on space related issues. I take great pride, along with this year's committee, in welcoming you to the **Thirty-Fourth Space Congress**.



Richard H. Jolly
General Chairman
Thirty-Fourth Space Congress



Registration

Headquarters for the **Thirty-Fourth Space Congress** is the Howard Johnson Plaza-Hotel, Skylab Room, Cocoa Beach. When you first arrive at Space Congress, please pick up your tickets, badges, and pre-registration packages. Registration will open from 12:00 - 5:00 p.m. on Monday, April 28; 7:00 a.m. - 5:00 p.m. from Tuesday through Thursday; and 7:00 a.m. - 12:00 on Friday. Space Congress memorabilia, copies of Proceedings, CD-ROMs and tickets for sessions, exhibit reception, luncheons and the banquet will also be available at the registration satellite desks in the Howard Johnson Plaza-Hotel lobby (morning) and the Holiday Inn Dolphin room (afternoon). 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. **ALL PAPER SESSIONS WILL BE HELD AT THE HOLIDAY INN. THE BANQUET WILL BE HELD THIS YEAR AT CRUISE TERMINAL #10 ON TUESDAY EVENING, WITH OPEN SEATING.** Register early to assure banquet tickets. Banquet tickets will also be available at the Registration Desks until 5:00 p.m. on Tuesday, April 29, unless sold out earlier. Requests for refunds will not be honored after April 14, 1997.

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 5:00 p.m.; and Thursday - 9:00 a.m. to 3:00 p.m. Admission tickets are available at the Registration Desk for the Wednesday Exhibit Reception to be held from 6:00 - 7:30 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, May 1, 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 any Registration Desk to pick up free admission tickets with the presentation of any student ID.

Sponsor

The **Thirty-Fourth Space Congress** is sponsored by the Canaveral Council of Technical Societies (CCTS). The council is composed of the Cape Canaveral area affiliates of 29 national, technical, and professional societies and an advisory group. Included in the advisory group are Brevard Community College, Embry-Riddle Aeronautical University, Florida Tech, the Florida Solar Energy Center, and The University of Central Florida. A CCTS Information Desk will be located in the Howard Johnson Plaza-Hotel adjacent to the Main Lobby. Additional information about CCTS is available at <http://www.spacecoast.net> under organizations or space congress.

CCTS Member Societies:

AACE International
Air Force Association (Cape Canaveral Chapter)
American Institute of Aeronautics & Astronautics
American Institute of Chemical Engineers
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
 Armed Forces Communication Electronics Association
 Florida Engineering Society
 Human Factors and Ergonomics Society
 Institute of Electrical & Electronic Engineers
 International Council on Systems Engineering
 Missile, Space & Range Pioneers, Inc.
 NASA Alumni League
 National Contract Management Association
 National Space Club, Florida Committee
 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, May 2, following the **Thirty-Fourth 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. A Pioneers Information and Memorabilia Desk will be located in the Howard Johnson Plaza Hotel adjacent to the Main Lobby. 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 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.

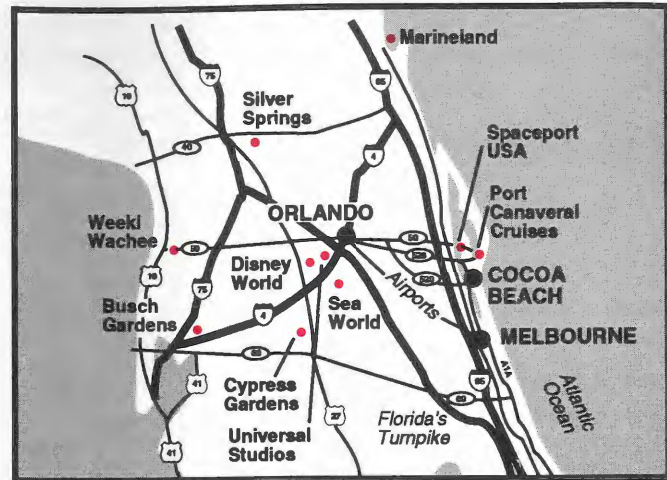
Airlines

Major airlines serving the Cocoa Beach area through the **Melbourne International Airport** include: 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 Brazil, 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



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 Station** are available from **KSC Visitor Center** 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, May 2.

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 \$40.00 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 Golf Registration Desk in the Skylab Room of the Howard Johnson Plaza-Hotel. Registration name change will be permitted with notification up to April 30.

Information

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

PROGRAM

TUESDAY, APRIL 29

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom
Speaker: General Howell M. Estes III, USAF
Cincorad, US Space Command
Commander, Air Force Space Command

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

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

SPACE SUCCESSES AND FAILURES.

Panel Chairman: Dr. Robert W. Smith
Chairman, Department of Space History
National Air and Space Museum

Successes and failures that provided the stepping stones to space exploration.

LUNCHEON (11:30 a.m. to 1:00 p.m.)

Holiday Inn, Manatee Ballroom
Speaker: Mr. Douglas A. Heydon
President, Ariespace, Inc.

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

A. LAUNCH AND SPACE SYSTEMS

Holiday Inn, Manatee Room A
Session Chairman: Paul Tully, Director of Logistics and Automation
Systems, McDonnell Douglas Space and Defense Systems

Lessons learned from commercial experience with launch and space systems development.

B. BENEFITS FOR MANKIND

Holiday Inn, Manatee Room B
Session Chairman: Frank Cepollina, Project Manager for Hubble Space
Telescope, NASA GDFC

Spin-off achievements and knowledge gains as a result of successes and failures in the past.

C. REVEALING THE PAST

Holiday Inn, Manatee Room C
Session Chairman: TBD

A historical perspective on past programs and their developmental gains as applied to today's systems.

D. BRIDGING THE EDUCATION GAP

Holiday Inn, Manatee Room D
Session Chairman: William Lavinghousez, School Board of Brevard
County

Approaches to education for improved student performance in the sciences and education preparation for the space industry workforce.

EXHIBITS (11:00 a.m. - 7:00 p.m.)

Hilton, Comfort Inn
Science Fair
Holiday Inn

SPACE CONGRESS BANQUET
Cruise Terminal #10 Port Canaveral

Social Hour: 7:00 p.m.
Dinner: 8:00 p.m.
Program: 9:00 p.m.
Speaker: F. Story Musgrave, Astronaut (*invited*)
Music and dancing following speaker.

WEDNESDAY, APRIL 30

PANEL SESSION II (8:00 a.m. to 11:00 a.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

UNITING FOR SUCCESS

Panel Chairman: Dr. H. John Wood
Hubble Space Telescope
NASA Goddard Space Flight Center
The synergy of partnering efforts in the space industry.

LUNCHEON (11:30 a.m. to 1:00 p.m.)

Holiday Inn, Manatee Ballroom
Speaker: Dr. June Scobee Rodgers
Board of Directors, Challenger Center

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

A. GLOBAL COMPETITION

Holiday Inn, Manatee Room A
Session Chairman: Jean-Michel Desobeau, Director of Engineering,
Ariespace, Inc.

International competition in space and its influence on progress and mission success.

B. UNITING IN SPACE

Holiday Inn, Manatee Room B
Session Chairman: Bill Bates, Chief of Staff ISSA, Johnson Space
Center

Continuing to build an experience base by living and working in earth orbit.

C. UNITING FOR PEACE

Holiday Inn, Manatee Room C
Session Chairman: Col. Marc Johansen, Deputy for Space Policy,
Office of the Deputy Under Secretary of Defense for Space

The role of the DOD in the international space environment.

D. EDUCATING THE WORLD

Holiday Inn, Manatee Room D

Session Chairman: Dr. Mark Moldwin, Florida Tech

Education around the world and its contribution to international space efforts.

EXHIBITS (11:00 a.m. - 5:00 p.m.)

Hilton, Comfort Inn

Science Fair

Holiday Inn

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

Cocoa Beach Hilton, and Comfort Inn & Sulte Resort Exhibit Halls,
Cocoa Beach (TICKET REQUIRED)

THURSDAY, May 1

PANEL SESSION III (8:00 a.m. to 11:00 a.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

OUR SPACE FUTURE

Panel Chairman: Maj. Gen. Robert S. Dickman, USAF
The DOD Space Architect

Systems, technology and business practices for tomorrow.

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

A. COMMERCIALIZATION OF SPACE

Holiday Inn, Manatee Room A

Session Chairman: Sam Venneri, Office of the Chief Technologist,
NASA HQ.

What's new in the area of commercial space activities?

B. SCIENTIFIC ENLIGHTENMENT

Holiday Inn, Manatee Room B

Session Chairman: TBD

Knowledge gained from space and a look at recent discoveries and where they are taking us.

C. TRANSFER TECHNOLOGY

Holiday Inn, Manatee Room C

Session Chairman: Maj. Patrick Smith, Office of the Secretary of Defense, Defense Technology Security Administration

Advances from military space activities and their applicability to non-traditional uses.

D. REACHING FOR THE STARS

Holiday Inn, Manatee Room D

Session Chairman: Phil Rose, School Board of Brevard County

What should we do in the field of education to enhance support of space and prepare students for the future?

EXHIBITS (9:00 a.m. - 3:00 p.m.)

Hilton, Comfort Inn

Science Fair

Holiday Inn

SPACE CONGRESS RECEPTION

(6:00 p.m. to 8:00 p.m.)

Holiday Inn Observation Deck

PANEL SESSION IV (7:00 p.m. to 9:00 p.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

MEET THE ASTRONAUTS

Panel Chairman: Center Director, NASA, Kennedy Space Center, FL

FRIDAY, May 2

PANEL SESSION V (8:00 a.m. to 11:00 a.m.)

Howard Johnson Plaza-Hotel, Challenger Main Ballroom

A NEW BEGINNING

Panel Chairman: Mr. John R. Wormington
Director, Commercial Programs
Hughes

A roadmap to attain our objectives.

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.