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## Space Congress Programs

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4-26-1983

# 1983 Twentieth Space Congress Preliminary Program

Canaveral Council of Technical Societies

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# TWENTIETH SPACE CONGRESS

COCOA BEACH, FLORIDA



APRIL 26, 27, 28, 1983

## PRELIMINARY PROGRAM



CANAVERAL COUNCIL OF TECHNICAL SOCIETIES  
Post Office Box 245  
Cape Canaveral, Florida 32920

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32920  
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# REGISTRATION FORM

CLIP AND MAIL  
WITH CHECK TO:

**Registration Chairman**

**TWENTIETH SPACE CONGRESS**

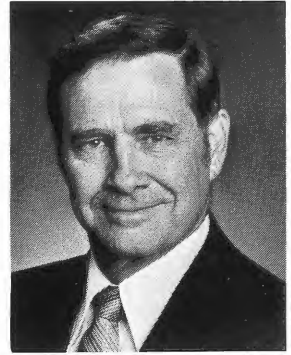
655 Doral Lane  
Suntree  
Melbourne, Florida 32935

PACKAGE REGISTRATION (Includes 4 items listed below)	Cost
Tuesday Banquet	\$65
Thursday Luncheon	20
Proceedings	6
Registration	30
	25

NAME \_\_\_\_\_ POSITION \_\_\_\_\_  
HOME ADDRESS \_\_\_\_\_ COMPANY \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
SPOUSE'S NAME (if attending) \_\_\_\_\_

## CHAIRMAN'S MESSAGE

The theme of the TWENTIETH SPACE CONGRESS is SPACE—THE NEXT TWENTY YEARS—and two decades after the first United States manned orbital flight seems an appropriate time to review the solid accomplishments of the space program, and project its most likely course as we move toward the next century.



The history of spaceflight spans barely a quarter-century, a very short time span for an incredible amount of progress in space exploration and utilization. This was brought home to me last year during a trip to Washington D.C., when I visited the Smithsonian National Air and Space Museum. In the Space Hall, and the Rocketry and Space Flight Exhibits, I viewed the systems of the past, and an exhibit called "Toward 2076: The Future of Rocket Propulsion." These show clearly that the future, as always, will be vastly different from the past.

To date, all major space transportation systems have been powered by solid or liquid chemical rockets. In the future, small nuclear-powered rocket systems may provide much longer burn times and hence more overall powerful vehicles. Electrical propulsion systems employing electrostatic or magnetic forces to accelerate small quantities of propellants, operating for weeks or even months at a time, can achieve velocities that are very expensive to obtain with rockets that burn for only a few minutes. Both are radical departures from current technology, and both—or neither—may be the wave of the future.

The one fact of which we can be certain is that the process of constant change will continue, and bring many surprises in its wake. Those people who take reasoned, analytical looks at future possibilities and potentials, in symposiums such as the SPACE CONGRESS, will suffer less "future shock" than most. And they will be more able to take advantage of the limitless possibilities now opening up before us.

These three days will allow all of us to share the thoughts and ideas of prominent thinkers from industry, government (both civil and military), and education. We will hear stimulating panel discussions dealing with the lessons of the past and the complexities of the future. A high school science fair will be held in conjunction with the SPACE CONGRESS, featuring exhibits from some of today's bright young students. Several leading aerospace companies also plan to have exhibits available.

Our agenda calls for a number of social activities, including a banquet at the Patrick AFB Officers Club, a luncheon, and other functions hosted by symposium attendees. Family members may enjoy Florida attractions listed elsewhere in this brochure.

Now is the time to plan to attend this special symposium. If myself or any of our staff members can be of assistance to you, please contact us.

Al Reeser,  
Chairman, Twentieth Space Congress

# PROGRAM

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## TUESDAY, APRIL 26

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

Speaker: Congressman Bill Nelson

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

#### SPACE TRANSPORTATION SYSTEMS UPDATE

Panel Chairperson: Jerry C. Bostick, Deputy Manager, Shuttle Programs Office, Johnson Space Center, Houston, TX

A panel to update the Space Congress on STS performance to date and an in-depth look at the next twelve months.

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

#### A. PRIVATE ENTERPRISES IN SPACE

Session Chairperson: Donald K. "Deke" Slayton, Vice Chairman, SSI, Houston, TX

An exploration of the growing utilization of the unique environment of space for processes that cannot be duplicated in the gravity and atmosphere of Earth.

#### B. COMPUTERS AND SIMULATORS

Session Chairperson: David P. Glenn, Director of Research N-7, Naval Training Equipment Center, Orlando, FL

Uses of space age electronics to save wear and tear on flight equipment by anticipating and dealing with situations and conditions that may be encountered during projected missions in space.

#### C. ORBITAL OPERATIONS

Session Chairperson: Mac R. Morrison, Lab Manager, Test & Field Operations, TRW Redondo Beach, CA

Man and Machine in space: An examination of operations human and mechanical that must be conducted far from the support and resources of Earthside facilities.

### BANQUET (8:00 P.M.)

Officer's Club, Patrick Air Force Base

Speaker: TBA

## WEDNESDAY, APRIL 27

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

#### NEXT TWENTY YEARS IN SPACE

Panel Chairperson: Dr. George E. Mueller, Board Chairman and President, Systems Development Corporations, a Burroughs Company, Santa Monica, CA

Looks ahead to the promises, potentials and challenges of two more decades of man and machines in space.

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

#### A. ENERGY

Session Chairperson: Dr. Robert L. San Martin, Deputy Assistant Secretary for Renewable Energy, Department of Energy, Washington, D.C.

An exploration of the demands of expanding technology in coming generations, and those needs.

#### B. STS CARGOES

Session Chairperson: George V. Butler, Director, Advanced Space Program MDAC, Huntington Beach, CA

Expanded view, using experience gained from early Shuttle flights to examine capabilities and limitations, and objectives for the operational Space Transportation System.

#### C. FUTURE SPACE TRANSPORTATION SYSTEMS

Session Chairperson: Andrew J. Pickett, Associate Deputy Director, NASA, Kennedy Space Center, FL

An exploration of potential new and supplemental approaches to placing cargo in Earth orbit, including use of both manned and unmanned vehicles.

### PANEL SESSION III (8:00 p.m.)

#### MEET THE ASTRONAUTS

Panel Chairperson: Richard G. Smith, Center Director, NASA John F. Kennedy Space Center, FL

A panel open to the general public with several astronauts and payload specialists discussing present and future activities for men and women in space.

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## THURSDAY, APRIL 28

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

#### DOD SPACE ACTIVITIES

Panel Chairperson: Maj. General Forrest S. McCartney, Vice Commander, Space Division, USAF, Los Angeles, CA

Provides a review of DOD program status and plans.

### LUNCHEON (11:30 a.m.)

Holiday Inn, Cocoa Beach

Speaker: Lt. Gen. J. A. Abrahamson, USAF. Associate Administrator for Space Flight NASA Headquarters, Washington, D.C.

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

#### A. SPACE STATION

Session Chairperson: Phillip E. Culbertson, Associate Deputy Administrator, NASA Headquarters, Washington, D.C.

A look into an exciting part of the program's future—and the concept involved in orbiting a permanent habitat to support man's endeavors in space.

#### B. GETAWAY SPECIAL FINALISTS

Session Chairperson: James A. Ralph, Manager, Ground Operations Analysis, IBM, Cape Canaveral, FL

Presentations by the finalists in the competition to define potential Shuttle payloads by High School and College Students, and announcement of winners in the Getaway Special contest jointly sponsored by CCTS and TWA Services.

#### C. SPECIAL TOPICS

Session Chairperson: Dr. B. J. Bluth, Professor of Sociology, California State University, Northridge Granada Hills, CA

An exploration of the great variety of disciplines potentially benefitting from use of the Space Shuttle's capabilities.

## 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 TWENTIETH 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 five local colleges and universities, the Florida Solar Energy Center, and the Brevard Economic Development Council.

## PIONEERS' DAY

The Missile, Space and Range Pioneers' cocktail party and banquet will be held on Friday evening, April 29, 1983 at the Officer's Club, Patrick Air Force Base. The Pioneers are the men and women who have been associated with aerospace since the beginning of the space program. Their banquet is an annual event well worth attending.

## AIRLINES

Major airlines serving the Cocoa Beach area through Orlando Jetport include: Air Florida, American, Braniff, Delta, Eastern, Northwest, Ozark, Pan Am, Republic, United and USAir. Eastern serves the Melbourne airport. Limousine service is available from both airports to Cocoa Beach (call 305-783-1400 for departure times).

## MOTEL RESERVATIONS

Rooms are available in the following motels, in the immediate vicinity of the TWENTIETH SPACE CONGRESS. Reservations should be made well in advance directly with the motel of your choice. Mention the SPACE CONGRESS in your reservation request.

Holiday Inn . . . . .(305) 783-2271  
Crossway Inn . . . . .(305) 783-2221

Other motels are available in the Cocoa Beach area.

## 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

## YOUTH SCIENCE FAIR

Regional Youth Science Fair displays and demonstrations will be open to the public in the Dolphin Room, Holiday Inn, Cocoa Beach. Exhibits will be judged and awards presented there on Wednesday, April 27, 1983, immediately preceding the "Meet the Astronauts" panel session.

## EXHIBITS

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

# ATTRACTION CENTERS

Late April in Central Florida is a delightful time of the year for the entire family. The weather is usually mild, the Atlantic warm enough for swimming and the tourist attractions are not yet crowded. *Cocoa Beach* offers a long stretch of swimming and walking beach, surfing areas, and both deep-sea and shore fishing. Bus tours of *The Kennedy Space Center* and *Cape Canaveral Air Force Station* are available from the *KSC Visitors Center*. This is a free, exhibit-filled space museum which can be enjoyed by the entire family, including relatively small children. Within one or two hours drive are—a world of vacation fun in the Magic Kingdom of *Walt Disney World*, including the new attraction EPCOT, the Environmental Prototype Community of Tomorrow—*Sea World*, one of America's finest marine attractions—*Circus World*, where you can perform instead of just watch—the mystery and excitement of Africa in *Busch Gardens*—the famed glass bottom boats at *Silver Springs*—the beautiful, recently enlarged gardens and daily water ski review at *Cypress Gardens*—and many other lesser-known attractions.

**THE MAP BELOW GIVES THE EXACT LOCATION OF EACH ATTRACTION.**

