



Space Congress Programs

5-2-2000

2000 Thirty-Seventh Space Congress Preliminary Program

Canaveral Council of Technical Societies

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Thirty-Seventh Space Congress
Post Office Box 245
Cape Canaveral, FL 32920-0245



PRELIMINARY PROGRAM

SPACE MEANS BUSINESS IN THE 21ST CENTURY

Cape Canaveral, Florida

May 2-5, 2000

CHAIRMAN'S MESSAGE

"Space Means Business in the 21st Century" has been coined to draw attention to the evolution that is taking space business from pure science and engineering to commercialization and privatization. To enterprises that means returns on investments. We are in a year-long celebration of the 50th Anniversary of the first rocket launch from Cape Canaveral (Bumper 8, Complex 3, July 24, 1950). As we go forward, it is always good to review history: where we are, and where we are going, toward fulfillment of dreams and aspirations that will be shared and displayed at the 37th Space Congress.



United Space Alliance is pleased to participate in this new millennium event, and is stepping up to its commitment to be at the forefront of commercialization and privatization, which is consistent with the Space Congress theme: "Space Means Business in the 21st Century".

In fact, United Space Alliance is synonymous with commercialization and privatization, as it reflects NASA's commitment to transfer accountability for the Shuttle program to commercial usage, with the possible eventuality of facilitating privatization. This would allow NASA to continue to develop and propagate research and development, with United Space Alliance offering the human-rated Shuttle to the world as the most reliable space transportation system.

The topics to be addressed at the Space Congress come face-to-face with the issues of doing business in space, for example: "50 Years of Space Exploration" - A Historical Perspective (Setting the Stage for the 21st Century); "Rocketry & Space Exploration - A Historical Perspective"; "Current Global Activities"; "Strategic Roadmap - Where We Think We are Going"; and "Wall Street Looks at Aerospace".

The Space Congress was inaugurated by the Canaveral Council of Technical Societies and its distinguished history has attracted a diverse, high level group of attendees from around the world. We are proud of the volunteers who make this Congress possible, and of the astronauts, who light up the imaginations of the children who are involved in the Space Congress Science Fair.

On behalf of the entire Space Congress Committee, I welcome you to the 37th Space Congress.

A handwritten signature in cursive script that reads "C. W. Murphy".

Charlie Murphy
General Chairman
37th Space Congress

Registration

Headquarters for the **Thirty-Seventh Space Congress** is the Radisson Resort at the Port, Bonaire Room, located in the convention center. There you may pick up your registration package and other Space Congress material including copies of the proceedings, tickets for panel/paper sessions, exhibit reception, luncheons and the banquet. Space Congress memorabilia will be available in the lobby of the Convention Center of the Radisson Resort at the Port. Registration will be open from 12:00 - 5:00 p.m. on Monday, May 1 and 7:00 a.m. - 5:00 p.m. from Tuesday through Thursday. Fill out the form on the reverse side of this brochure to register by mail or FAX. You may also E-Mail spacecongress@spacecongress.org or register on line at www.spacecongress.org. Your registration will be confirmed by return mail. Register early to assure banquet tickets. Requests for refunds will not be honored after April 17, 2000.

Transportation

Because this year's Congress is being held in just one location, the Radisson Resort, no transportation between the Congress and other local hotels is planned. If this affects your planning for a rental car, you should make arrangements accordingly. Limited courtesy van transportation may be provided by other hotels, but you should confirm the availability of such transportation with the hotel you plan to use.

Exhibits

The exhibit hall will feature displays and demonstrations from over 60 exhibitors. It will include exhibits on Space Shuttle, International Space Station, computer graphics demonstration, and other aerospace related topics. The Exhibit Hall will be open to the public in the Radisson Resort at the Port on the following schedules: Tuesday - 11:00 a.m. to 5:00 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 - 8:00 p.m.

Youth Science Fair

Regional Youth Science Fair displays and demonstrations will be open to the public Tuesday through Thursday, in the Radisson Convention Center Exhibit Hall. Exhibits will be judged and awards presented on Thursday evening, May 4, at the beginning of 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 to pick up free admission tickets with the presentation of any valid student ID.

Sponsor

The Thirty-Seventh Space Congress is sponsored by the Canaveral Council of Technical Societies (CCTS). The council is composed of the Cape Canaveral area affiliates of 32 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 registration area in the Bonaire Room just off of the Convention Center Lobby at the Radisson. Additional information about CCTS is available at <http://www.canaveralcts.org>.

CCTS Member Societies:

Association of the Advancement of Cost Engineering
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, Refriger. & A/C Engineers
American Society for Industrial Security

American Society of Mechanical Engineers
 American Society for Quality
 American Society of Safety Engineers
 American Society for Training and Development
 Armed Forces Communications and Electronics Association
 Florida Engineering Society
 Florida Space Business Roundtable
 Human Factors and Ergonomics Society
 Institute of Electrical & Electronic Engineers
 (Melbourne and Canaveral Sections)
 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
 Brevard Council of Teachers of Mathematics-Florida
 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 5, following the **Thirty-Seventh 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 Radisson Convention Center Lobby. For information write: Pioneers, P.O. Box 5227, Patrick Air Force Base, FL 32925-1227.

Parking

Adequate parking is available at the Radisson Resort at the Port, where the Keynote address, Paper and Panel Sessions, Luncheons, Banquet, Exhibits, and Science Fair will be held.

Airports

Melbourne International Airport
Orlando International Airport
Daytona Beach International Airport

Limousine and van services are available from Melbourne and Orlando airports to Cape Canaveral and Cocoa Beach.

Auto Rentals

Reservations and rentals can be made at Cape Canaveral or at the Melbourne, Orlando, and Daytona airports. Agencies include:

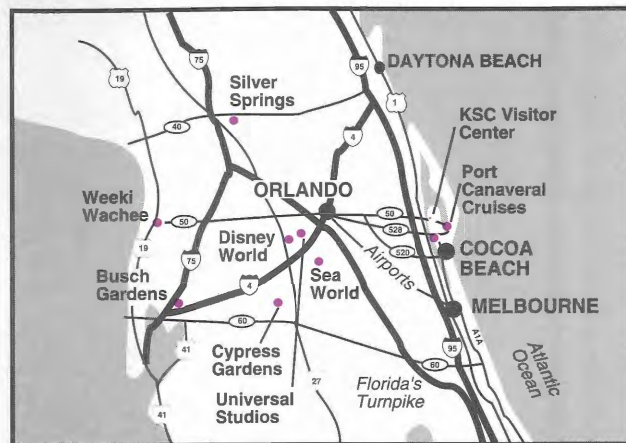
Hertz, Avis, National, Budget, Dollar, General, and Enterprise.

Attraction Centers

The Space Coast is among the most popular tourist destinations in the world, featuring a unique blend of high tech and natural attractions.

The Kennedy Space Center Visitor Complex offers visitors an unprecedented insiders' view of the exciting past, present and future of our nation's space program. The Astronaut Hall of Fame showcases the personal side of spaceflight with astronaut artifacts and memorabilia. Brevard Community College is home to one of the world's premier planetariums with a variety of public shows and presentations.

The Space Coast is home to one of the nation's busiest cruise terminals featuring 3 and 4 day cruises to the Bahamas aboard Disney, Carnival, Cape



Canaveral and Premier cruise lines. Additionally, there are daily casino cruises aboard the Sterling and Suncruz lines.

The area is also a natural paradise with over 72 miles of beaches and some of the best fresh and saltwater fishing in the nation. The Space Coast is only an hour away from some of the world's most popular tourist attractions, including Walt Disney World, Universal Studios and Sea World.

Space Congress Golf Tournament

Golfers will be able to enjoy a tournament at the Cocoa Beach Country Club on Friday, May 5, 2000.

The tournament will be a Scramble format, as in the past. Foursomes may sign-up if they provide a combined total, certifiable handicap of 58 or higher. **NOTE: Only one player with a handicap of 10 or lower allowed per team.**

Singles that sign up will be paired with teams that are not filled. A maximum of 144 players will be registered on a first-in basis.

Entry fee is \$50 per player or \$200 per 4-person team. Entries will be accepted after January 3, 2000.

Included in the entry fee: Green fees - 1/2 cart - Bar-B-Que Lunch - Prizes
 Schedule of events is as follows:

8:00 a.m.	Check-in at course begins
10:00 a.m.	An amazing Golf Clinic/Exhibition by golfing legend, Mr. Bob Toski
11:00 a.m.	Lunch
12:00 p.m.	Shotgun Start

Space Congress Fishing Trip

Fishermen will be able to enjoy a day of deep sea fishing on the Atlantic Ocean on Friday, May 5, 2000.

The fishing trip is for bottom fishing for species such as grouper, snapper, amberjack, and cobia. Sign-up for the trip is on a first-come first-served basis. The cost is \$50 per fisherman or guest. A lunch ticket may be purchased at the dock prior to departure. Prizes will be awarded for notable catches.

Schedule of events is as follows:

7:00 a.m.	Check-in at dock
8:00 a.m.	Departure
5:00 p.m.	Return to dock

Information

Further questions regarding participation in the **Thirty-Seventh Space Congress** should be directed to: Thirty-Seventh Space Congress, P.O. Box 321333, Cocoa Beach, FL 32932. Telephone answering service for faster response: 321-868-1623, (Fax 321-783-5579), or via e-mail to spacecongress@spacecongress.org. The Space Congress website is: <http://www.spacecongress.org>.

PROGRAM

TUESDAY, MAY 2

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

Speaker (TBD)

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

“50 YEARS OF SPACE EXPLORATION”

**Panel Chairman: Ed Gormel
Executive Director
Joint Performance
Management Office, KSC**

Setting the stage for the 21st Century

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

“Rocketry & Space Exploration—A Historical Perspective”

How we use where we have been to help determine the future continuous success of space access, exploration and development.

A. Commercial: Past Programs, Missions and Experiments

A view from the commercial perspective on how history should help shape the future. Applying historical knowledge to the future of space.

**Session Chairman: Dr. Gale Allen
Technology Programs and
Commercialization System,
NASA/KSC**

B. Government: Shifting the Paradigm
How the future is changing based on lessons learned from years of experience. What must change to meet the demands of the future.

**Session Chairman: Nancy Bray
Lead, Staff Office, JPMO,
NASA/KSC**

C. Education: Successful Partnerships
Applying lessons learned from partnerships between academia, students, government, and industry to meet tomorrow's challenges for success.

**Session Chairman: Gregg Buckingham
University Services of
Public Affairs, NASA/KSC**

**EXHIBITS & SCIENCE FAIR (11:00 a.m. – 5:00 p.m.)
Radisson Convention Center Exhibit Hall**

SPACE CONGRESS BANQUET

Social Hour (7:00 p.m.)

Dinner/Program (8:00 p.m.)

Speaker (TBD)

WEDNESDAY, MAY 3

PANEL SESSION II (8:30 a.m. TO 11:00 a.m.)

“Current Global Activities”

**Panel Chairman: Bruce Melnick
Vice President & Senior Site
Executive, Boeing Space
Coast Operations, KSC**

A glimpse of space activities throughout the world

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

**Speaker: Bo Bejmuk
Vice President & General Manager
Sea Launch Home Port Boeing Co.,
Long Beach, CA**

Topic: Sea Launch

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

“Current Global Activities”

A status of international and domestic programs, missions, and experiments.

A. Commercial: Global Markets
A status of the development of the global commercial marketplace.

**Session Chairman: Ed O'Connor
Executive Director of
Spaceport FL. Authority**

B. Government: Global Programs
A status on global programs and their expected impact on space business.

**Session Chairman: Maj. Victor Tasiemski
Joint Project Office/45 SW**

C. Education: New Technologies and Research
A look at advanced systems development having direct application in launch vehicles and payloads.

Session Chairman: Dr. James Brown
Associate Director for
Logistics Systems,
NASA/KSC

EXHIBITS & SCIENCE FAIR (11:00 a.m. – 5:00 p.m.)
Radisson Convention Center Exhibit Hall

EXHIBIT RECEPTION (6:00 p.m. to 8:00 p.m.)
Exhibit Hall (Ticket Required)

THURSDAY, MAY 4

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

“Strategic Roadmap-Where We Think We Are Going”

Panel Chairman: Col. Stephen J. Duresky
USAF 45th Wing Vice
Commander, Patrick AFB

A discussion of strategic roadmaps to the future of space exploration.

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

Speaker: Wolfgang H. Demisch
Managing Director Wasserstein
Perella Securities, Inc.

Topic: Wall Street Perspective

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

“Strategic Roadmaps”
Where do we go from here?

A. Commercial: New Programs and Opportunities

A status of the future programs, business arrangements and industry plans for the future.

Session Chairman: Jean-Michel Desobeau
Director of Engineering
Ariane Space, Inc.

B. Government: Painting the Whole Picture
Strategic view of the future of space: planned programs and projects.

Session Chairman: Shannon Bartell
Deputy Director of Space
Station and Shuttle
Payloads, NASA/KSC

C. Education: Meeting the Demands of Change

The view from the educators and students on how the education system prepares our future and current leaders.

Session Chairman: Dr. Tim Kotnour
Assistant Professor of
Industrial Engineering and
Management Systems, UCF

EXHIBITS & SCIENCE FAIR (9:00 a.m. to 3:00 p.m.)
Radisson Convention Center Exhibit Hall

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

MEET THE ASTRONAUTS

Panel Chairman: Roy D. Bridges, Jr.
Center Director,
NASA/KSC

Science fair awards presentation
Astronaut Interaction

FRIDAY, MAY 5

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

Special session with a “Mr. Wizard” educational program for students.

SPACE CONGRESS GOLF TOURNAMENT

Golf Check-in	8:00 a.m. – 10:00 a.m.
Bob Toski Golf Clinic	10:00 a.m. – 11:00 a.m.
Golf Lunch	11:00 a.m. – 12:00 noon
Golf Tournament	12:00 noon – 4:30 p.m.

SPACE CONGRESS FISHING TRIP

Port Canaveral	
Check-in at dock	7:00 a.m.
Departure	8:00 a.m.
Return to dock	5:00 p.m.

OTHER ACTIVITIES AVAILABLE NOT PART OF THE OFFICIAL SPACE CONGRESS PROGRAM

MISSILE, SPACE & RANGE PIONEERS’ ANNUAL BANQUET

(6:30 p.m. to 10:00 p.m.)
Officers’ Club, Patrick AFB

ALL SPACE CONGRESS ACTIVITIES WILL BE HELD AT THE RADISSON RESORT AT THE PORT.