

SPACE CAMP NEWS



Vol. 7 No. 1 ★

The Official Newsletter of

Space Camp & Space Academy ★

Spring 1991

SPACE CAMP Enters 10th Year With New Adventures

There are plenty of sessions still available for you to attend exciting space and aviation programs as U.S. SPACE CAMP celebrates its 10th season!

More than ever, SPACE CAMP is for everyone. What began as one program for youngsters in 1982, has grown to over a dozen programs for youths and adults in 1991.

"It's extremely gratifying to see the dream of a few, determined people become an international springboard for promoting the study of science and math," said Edward O. Buckbee, director of the U.S. Space & Rocket Center and SPACE CAMP.

He added, "If there is one thing I've learned in the first ten years of Space Camp, it's that young people want to learn and are hungry for new challenges."

SPACE CAMP. An exciting new challenge awaits SPACE CAMP trainees with the premiere season of the Mars Mission. For SPACE CAMP age trainees...Mars is the future.

Your Mars Mission experience will consist of intense training. Then you'll "suit-up" for a one and one-half hour simulated trip from Earth to a space station. Then, it's on to Mars.

Your entire experience will be made even more realistic through the use of a motion base simulator that adds extra excitement on your trip to another world.

While on the simulated red planet you will face geological, atmospheric and life support challenges. You'll set up a base of operations and you may even explore your simulated Mars landscape in a rover.

Following your return trip to Earth, you'll ride to the debriefing center and report your findings.

For the first time, trainees have the opportunity to experience the Multi-Axis, the Orbital Maneuvering Pod and the Space Station Mobility Trainer astronaut simulators.

ACADEMY Level I. New challenges are within your reach in Level I this year, especially on astronaut simulators.

You will be able to perform a satellite docking maneuver on the Manned Maneuvering Unit. Control the levers to move your MMU into position to lock on with a satellite.

An addition to the Multi-Axis will aid students in conquering disorientation. You will call out a de-orbit sequence and be at

home for one of their simulated missions as they conduct experiments in protein crystal growth, electronics, DNA studies, human physiological studies, space radiation experiments and Earth observation studies.

Two new EVA's are in place — an inflatable LDEF satellite and a deployable solar array that is similar to the one flown on an actual NASA shuttle mission.

All qualified trainees in the Engineering and Technology tracks that participate in scuba activities will work on a full-scale mock-up of the Orbital Maneuvering Vehicle (OMV). This OMV is the actual hardware used by astronauts to train in the Neutral Buoyancy Tank at NASA's Marshall Space Flight Center in Huntsville.

AVIATION CHALLENGE.

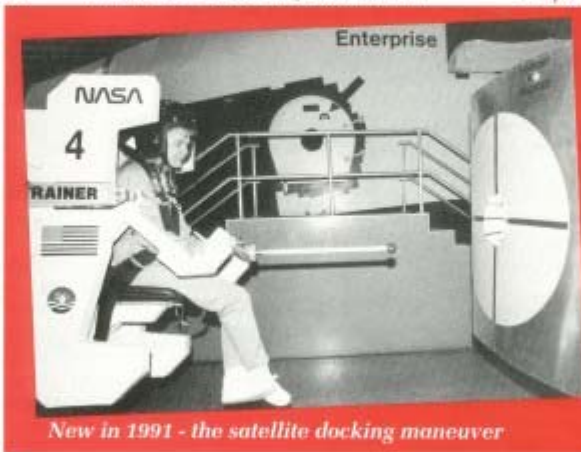
The call sign is "More" this year at Aviation Challenge. More young people and adults will

be able to participate in the most exciting time this side of zero-G.

If you're in grades 7-12 or an adult looking for a break from pushing the pencil, you qualify for the program in Huntsville! You'll splash through water activities, learn the basics of land survival and take the controls of a simulator that performs like an F-14.

Basic is for students in grades 7, 8 and 9. Intermediate is for students in grades 10, 11 and 12. Intermediate is also available in Florida. Adult is for those in the category of "young as you feel."

But, no matter your age, don't wait too long to make your reservations. Call 1-800-63 SPACE to be sure you don't get left on the ground.



New in 1991 - the satellite docking maneuver

the controls as the Orbital Maneuvering System and Reaction Control System bring the orbiter in for landing.

The Endeavour orbiter also has a new, welcome wrinkle this year. The commander and pilot will be given more control over visuals and orbiter movements as they attempt to dock with a space station, maneuver through orbit burns and land the orbiter.

ACADEMY Level II. Level II students have much to look forward to in 1991.

A new full-scale mock-up of a SPACEHAB module has been installed in the cargo bay of the Enterprise. Trainees in the Technology track will call SPACEHAB

SESSIONS STILL AVAILABLE. PHONE RESERVATIONS TOLL-FREE 1-800-63 SPACE.





Trainees attending SPACE CAMP programs through mid-September have a rare treat in store — a close-up look at Soviet spacecraft like this full-size mock-up of the Soyuz reentry capsule. It's part of "Red Star in Orbit," a world premiere exhibit of Russian spacecraft and art.

K Keep In Touch With SpaceMail

SPACE CAMP graduates with a home computer and modem now have their own "official" network to keep in touch with each other and learn more about SPACE CAMP and space exploration. SpaceMail, a joint effort between U.S. Sprint and U.S. SPACE CAMP[®], began service in late March.

SpaceMail subscribers are assigned a "mailbox" that allows them to use their personal computer to monitor space shuttle launches, find out the latest on space projects and receive answers to questions about the mysteries of space.

"SpaceMail is the perfect solution for Space Camp graduates who want to stay in touch with their former classmates and make friends with other space enthusiasts," said Edward O. Buckhoe, director of U.S. SPACE CAMP and the U.S. Space & Rocket Center. "It offers a simple way to share information and stay on top of the accomplishments and goals of space exploration."

Through an electronic "bulletin board," SPACE CAMP graduates can carry on "conversations" with each other and even converse with astronauts and scientists.

SpaceMail offers instructional programs such as forums with experts from major aerospace companies and international space agencies. Students can tap into SpaceMail data bases to obtain space-related facts for school reports and projects.

Subscribers can receive SpaceMail for \$20 a month for off-peak usage. Customers can also receive separate Sprint long distance service through a Custom FONCard developed by Sprint and SPACE CAMP. The card shows the proposed space station Freedom and the space shuttle in orbit over the Earth.

"SpaceMail allows trainees to continue their exploration of space after they have attended Space Camp," said Marc Newman, director of Sprint International's Messaging Marketing Group. "SpaceMail can link the scientists, engineers and astronauts who lead today's space program with the Space Camp trainees who may lead tomorrow's space program."

Sprint is a unit of United Telecommunications, Inc., a diversified international telecommunications company with \$8.3 billion in revenues. Sprint provides a comprehensive array of voice, data and video communications products and services on the only nationwide, all-digital, all fiber-optic network.

More information about how to receive SpaceMail can be obtained by calling toll-free, 1-800-48-SPACE (8:00 am-6:00 pm, Central Time, 7 days a week). Information on the Custom FONCard is available at 1-800-669-8585 (7:00 am-8:00 pm, Central Time, Monday-Friday).



S SPACE CAMP Florida Adds Dorm and Cafeteria; Educator Program New in '91

The U.S. SPACE CAMP and Astronaut Hall of Fame facility in Florida is adding new conveniences for trainees attending sessions in 1991. SPACE CAMP Florida began its fourth season March 3 with sessions running through September.

A 296-bed dormitory, located within walking distance of the training center, is scheduled to open in early April. A 188-seat cafeteria is under construction to serve trainees and Hall of Fame visitors.

The expansion enables the Florida facility to increase its capacity and also offer the new services to participants in the Outer Space Tour, an overnight SPACE CAMP adventure for students that is now accepting reservations at (407) 269-6100.

The 1991 season will launch "Teaching the Future: Countdown to Learning," offered in the spring and summer for the first time at Titusville.

The five-day educator program offers three hours of graduate credit and is co-sponsored by U.S. SPACE CAMP, NASA/Kennedy Space Center and the University of Central Florida (UCF). The cost is \$750 and includes meals and lodging from Tuesday through Sunday afternoon.

The educator curriculum includes behind the scenes tours of the space shuttle launch and payload processing facilities at Kennedy Space Center, use of the Educator Resource Library and Exploration Station, daily sessions on astronaut training simulators and classes by UCF's optics and holography experts.

Information about all SPACE CAMP teacher programs is available through the Teacher Hot Line at 1-800-447-6874.

Teaching the Future, Florida
session dates:

April 16-21	June 16-21
April 30 - May 5	June 25-30
May 7-12	July 30 - August 4
May 14-19	August 13-18

SPACE CAMP Graduate To Attempt Record Flight

SPACE CAMP graduate Josh Harrison, of Greenville, Ala., is flying toward the record books.

The 11-year-old A-student has a goal to become the youngest person to pilot a plane coast to coast. He made the decision shortly after graduating from SPACE CAMP in July last year.

"I saw a news story on television that a 12-year-old had set the record and I told my parents if he can do it, I can do it," Josh said. "Serving as the pilot on my space shuttle mission at Space Camp also helped me believe that it was possible."

The Greenville Junior High sixth grader intends to fly his parent's four-passenger plane in April from San Diego to an as yet undetermined location on the east coast. All total, Josh will log about 6,000 miles because he plans to fly to San Diego to begin the trip and will fly back to Greenville from the east coast. The coast to coast record attempt will cover about 3,000 miles.

Josh, in his light blue SPACE CAMP flight suit, will be accompanied on the journey by his certified flight instructor, a necessary arrangement since the young pilot isn't qualified to receive a pilot's license until he's 17. But, Josh will always be at the controls, flying about eight hours each day of the estimated three-day flight. He will also have the responsibility of plotting the flight and maintaining his own logs.

Josh says seeing his father take flying lessons influenced him to do the same. Although he's only been flying for about a year, Josh says it's the beginning in his quest to become a commander on future space shuttle flights.

He fondly remembers his week at SPACE CAMP where he most enjoyed the 5DF astronaut simulator and the space shuttle mission. He was a member of the Martin-Marietta team which took home the Teamwork Award for their efforts.

"I found out that I need to take a lot of science courses to become an astronaut," he said. "I plan to do that and I also want to get more flight experience by becoming a fighter pilot in the Navy or Air Force."



SPACE CAMP graduate Josh Harrison takes flying seriously. He is scheduled to attempt his record flight in a Beechcraft 23 Musketeer in April.

He also wants to return to SPACE CAMP. He says the icing on the cake would be to set the youngest pilot record and then attend Aviation Challenge in Huntsville next year after he enters the seventh grade.

Parent-Child Weekend Offers Time Well Spent

One of the most important programs ever created at SPACE CAMP is available for the first time in 1991 in Huntsville and Florida — Parent-Child Weekend.

When was the last time you and your child really spent time together? If you can't remember, then it's time for an experience you won't forget.

Spend a weekend in space, the two of you, working side by side, sharing the fun of training together like astronauts... talking over your experiences before bunking together... and conducting a space shuttle mission together.

For the first time in the 10 years of U.S. SPACE CAMP, parents and children will work together in the same program on the same schedule.

But dates are limited. As we go to press there is space available for the weekends of May 3-5 and May 17-19 in Huntsville. Slots are available in Florida for April, May, July, and August.

Call 1-800-63 SPACE to make your reservations and receive a special brochure. Then make plans to share some quality time together. Recommended for children 6-12.



Brian Phelps (left) and Mark Thompson star in a NBC-TV comedy special taped on location at SPACE CAMP earlier this year. "The Adventures of Mark and Brian" program is tentatively scheduled to appear in late summer or early fall so check your local TV listings. Mark and Brian are a top-rated disc jockey radio team in Los Angeles.



Two RF-4 fighter planes fly over a large crowd gathered at the SR-71 Blackbird exhibit outside the Space Center. The jets were part of a ceremony to officially open the Blackbird exhibit. The event also included appearances by three former SR-71 crewmen. SPACE CAMP trainees in 1991 will see the Blackbird, the world's fastest aircraft.



Phone Reservations Toll-Free 1-800-63 SPACE



U.S. SPACE CAMP®
U.S. Space & Rocket Center
One Tranquility Base
Huntsville, AL 35807

Non-Profit
Organization
U.S. Postage
PAID
Huntsville, AL
Permit No. 523