

SPACE CAMP NEWS

NASA
Administrator
Goldin At
SPACE
CAMP
(See
Inside)



★ The Newsletter of Space Camp & Space Academy ★

Vol. 8 No. 2

Summer 1992

Astronaut Mike Mullane In Huntsville For The Summer

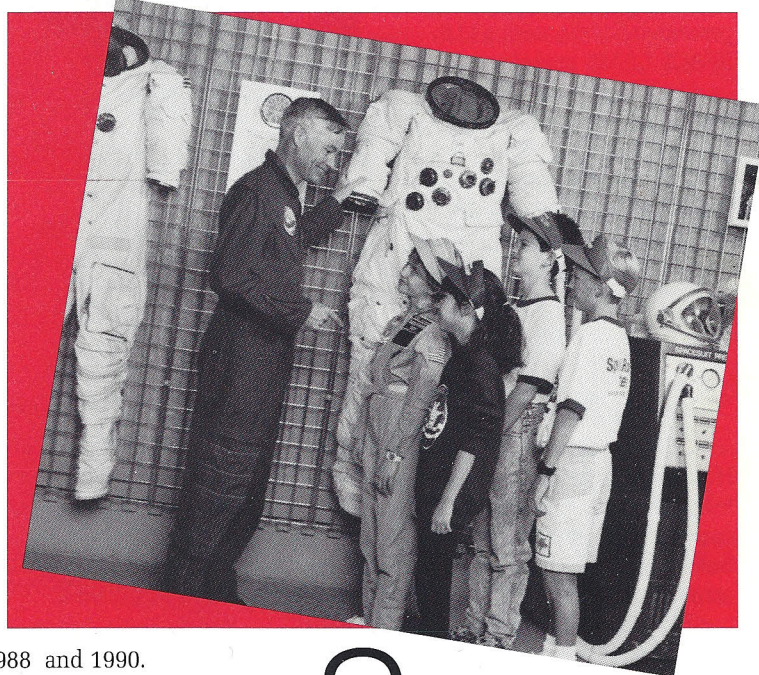
Astronaut Mike Mullane, a veteran of three space shuttle flights, is serving as a "master teacher" for all SPACE CAMP/ACADEMY programs this summer.

The retired U.S. Air Force Colonel is the resident astronaut through August 1992, Tuesday through Saturday of each week, to conduct lectures, discuss aerospace career options, serve as a curriculum advisor and speak at graduation ceremonies. He also speaks to Space Center visitors in scheduled Space Center auditorium appearances.

"I want to share my space flight experiences with everyone that visits Space Camp - the trainees as well as other visitors," said Mullane. "I want to excite them about space, to open their eyes to the fact that the exploration of space is a human adventure that touches all of us - not just the handful of astronauts that ride the rockets."

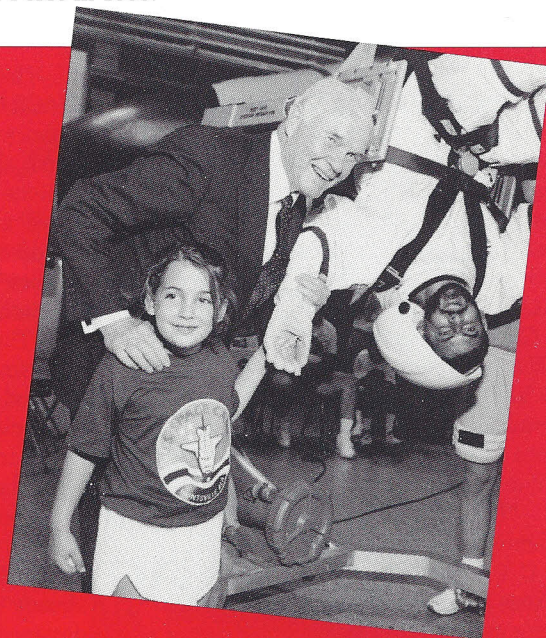
Mullane became an astronaut in 1979 and served as a mission specialist during his NASA career. He was aboard the maiden flight of Discovery in 1984 which included the activation of the OAST-1 solar cell wing experiment, deployment of three satellites and a student growth experiment. The crew also used IMAX cameras to produce footage for "The Dream is Alive" movie.

Mullane flew Department of Defense missions aboard Atlantis in 1988 and 1990. In three missions, he logged 236 earth orbits and recorded 356 hours in space before his retirement from NASA and the Air Force in 1990.



Sen. John Glenn Offers Support

U.S. Senator and former Astronaut John Glenn, of Ohio, lends a hand of support to the Parent-Child Camp simulator activity of Rachel Melnick and her father, Sandy. Glenn paid a recent visit to SPACE CAMP in Huntsville. This is the 30th anniversary year of the historical space launch that made him the first American to orbit the Earth.



Students Report Favorable Impact From U.S. SPACE CAMP® Experience

A new U.S. SPACE CAMP survey of former graduates indicates that young people do enjoy science and math, when the subjects are presented in a hands-on, motivational atmosphere.

The survey, a systematic sampling of over 4,000 individuals who attended SPACE CAMP or SPACE ACADEMY between 1982 and 1986, seems to indicate the active participation approach is working.

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NASA Administrator Daniel Goldin Visits Space Center and SPACE CAMP

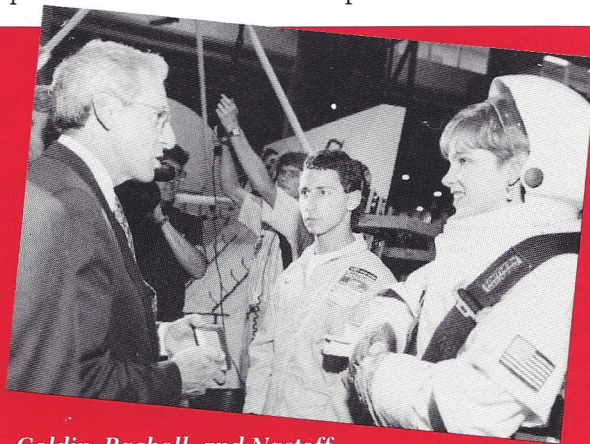
NASA Administrator Daniel S. Goldin toured the Space Center and SPACE CAMP during his recent trip to Huntsville to visit NASA's Marshall Space Flight Center.

Goldin was welcomed to the Space Center by Director Edward O. Buckbee at the front entrance, near the SR-71. He was then given a brief tour of the museum and Rocket Part before arriving at the SPACE CAMP Training Center.

The new NASA administrator was treated to demonstrations of many training activities and talked with several young people about their SPACE CAMP experiences and their future in space exploration.

SPACE ACADEMY Level II trainees Alecia Nastoff, of Crown Point, Ind. and Damon Rachell, of Old Bethpage, N.Y. presented Goldin with a U.S. SPACE CAMP medallion.

Goldin told the students that he believes their generation will travel to Mars and become the "first Martians." He also expressed hope that their children will visit Jupiter and their children's children will "go on to the stars."



Goldin, Rachell, and Nastoff

New Dates

Thanksgiving Dates Added in Huntsville

U.S. SPACE CAMP	Nov. 22-27
SPACE ACADEMY Level I	Nov. 22-27
SPACE ACADEMY Level II	Nov. 21-28

Dates Added for Florida Parent-Child Camp

Nov. 27-29
Dec. 26-28



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Students Report Favorable Impact. . . continued from previous page

Since U.S. SPACE CAMP opened in Huntsville in 1982, over 122,000 students from all 50 states and dozens of foreign countries have graduated from programs here and in Florida. Over 24,000 students are expected to attend programs this year.

After attending SPACE CAMP, 87 percent of the survey respondents said they took more science courses, primarily in aerospace and engineering. Some 80 percent were inspired to take more math, specifically calculus and algebra.

In the area of college majors, 41 percent reported their experience at SPACE CAMP was a key factor in their choice of curriculum and 87 percent chose engineering, math or science as their course of study.

SPACE CAMP frequently receives mail from program graduates who volunteer the value of their experience. Jennifer Trost, of Mabelvale, Arkansas, is an example.

"These space programs have provided an incentive to excel for the sole purpose of someday becoming involved with space exploration," wrote Trost.

"With overflowing happiness, I also am proud to announce my appointment to the Air Force Academy, which certainly would not have been possible had I never experienced the challenges of Space Camp/Academy. I am living and fulfilling my childhood dream!"

SPACE CAMP also receives letters from students who believe the program is making a difference in their approach to school work.

"I learned a lot at the (Space) Academy," said Patrick Davis of Renton, Washington. "Since my little trip into 'space', I have been motivated to do better in school and at this time I am getting A's and B's instead of C's and D's. The Space Academy Level II helped me get my grades back together and I think it can do the same for others."

Other survey results disclose that 98 percent of respondents said they had a significant worthwhile experience at SPACE CAMP and 81 percent reported that the program has a meaningful impact on their lives. Almost half of those surveyed said they made a career decision based on their SPACE CAMP participation.

Cadet Corporal Dan Robinson, now at the U.S. Military Academy at West Point, New York, plans a career in the space program. "Space Academy gave me a chance to lead, and to follow; that's why I put it on my application to West Point," he said. "I really feel like it gave me an edge, both now, in college, and later on."

U.S. SPACE CAMP Director Edward O. Buckbee says the survey results show that today's generation of young people are achievers when given the proper motiva-

tion, inspiration and direction.

"I've never once accepted the doomsday theory that America's students can't compete on an international level in math and science," said Buckbee. "The key is education through stimulation, and, exploration and discovery are the best stimulants for the young mind. At Space Camp we give them a glimpse of the future and then challenge them to study and strive to do their very best to be a part of it."

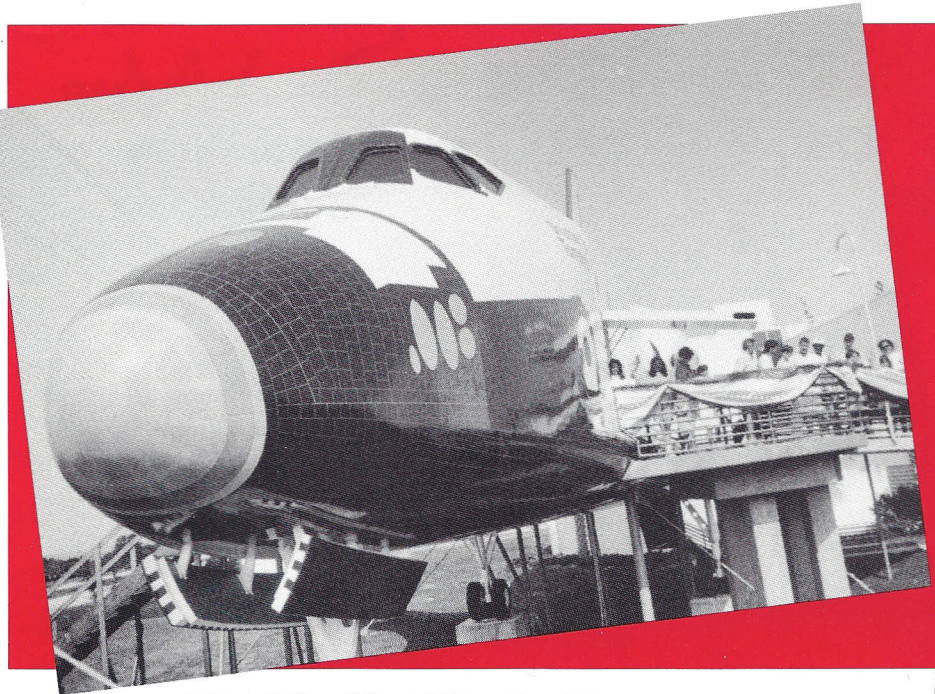
The educational importance of the SPACE CAMP programs is endorsed by school systems all over the United States which allow their students to attend sessions during the school year. SPACE CAMP curriculum is correlated with the standards established by the National Science Teachers Association and the math standards of selected states.

The SPACE CAMP Education Department works with school administrators and teachers who wish to enhance their science or math courses.

And, most recently, SPACE CAMP has teamed up with Macmillan/McGraw-Hill in a corporate partnership that establishes the latter as the official schoolbook publisher for SPACE CAMP. The joint venture has already resulted in a school textbook designed to teach more hands-on instruction for science in the classroom.

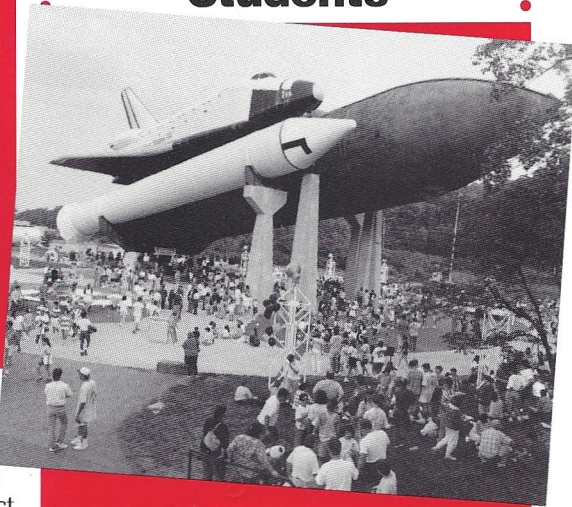
SPACE CAMP

Plays Host To Science Olympiad Students



Florida Shuttle to Tomorrow

The newest attraction and educational tool at U.S. SPACE CAMP Florida and the U.S. Astronaut Hall of Fame is Shuttle To Tomorrow, a full-scale space shuttle replica. Inside Shuttle To Tomorrow's cargo bay are 72 seats, each offering a perfect view for the 12-minute, multi-sensory video flight bearing the orbiter's name. Inside the theater, guests and trainees experience their own astronaut adventure, including the rumble of liftoff, a simulated spacewalk and more. In addition, Space Camp Florida trainees use Shuttle To Tomorrow for orientation to learn even more about today's space program.



Over 800 National Science Olympiad students and teachers from across America attended a day at U.S. SPACE CAMP on their way to compete at Auburn University in mid-May. The students were all regional and state winners in science competitions.

The pre-Olympiad visit to Huntsville included an appearance by country music group Alabama who attended a barbecue with the students under the space shuttle Pathfinder. Group members talked to the students about the need to preserve the environment and the importance of young people to the future.

Other activities included hands-on experience with astronaut training simulators, an Omnimax movie in the Spacedome Theater, tours of the U.S. Space & Rocket Center, and a visit to NASA's Marshall Space Flight Center.

SPACE CAMP also provided demonstrations at Auburn University of the Multi-Axis and Five Degrees of Freedom simulators and presented SPACE CAMP scholarships to winners of the aerodynamics competition.

Approximately 2,500 of America's top science students took part in the individual and team competition at Auburn which included "hands-on" events under the formats of board games, TV shows and athletic endeavours. The events were balanced between biology, earth science, chemistry, physics, computers and technology.

Four Time Trainee Ready For More!

It would be safe to say that Adam Klein knows a good thing when he sees it. The 14-year-old high school student from Solon, Ohio recently completed his fourth trip to a SPACE CAMP program and has plans to attend several more.

Klein turned a "love for everything about space" into his first trip to SPACE CAMP Florida in 1989. His efforts earned him the Outstanding Trainee Award, something he calls "a real honor."

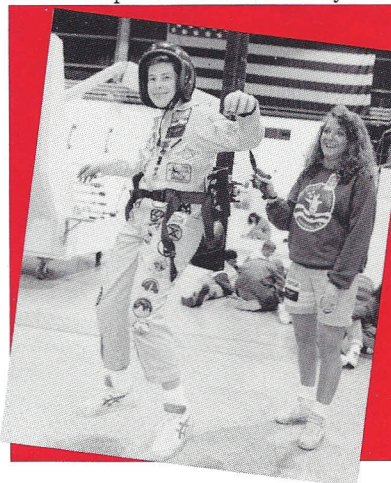
Since that time he has attended SPACE CAMP in Huntsville (1990) and has twice completed SPACE ACADEMY: Level I (1991-92). He is already looking forward to all three tracts of SPACE ACADEMY: Level II, and AVIATION CHALLENGE.

"Even though I've been through four programs," he said, "I'm still learning new things. I've learned the importance of leadership and responsibility, especially in my role as commander on our two-hour space shuttle mission."

SPACE CAMP is also having a positive effect in another important area. "It really helped me in school," said Klein. "I've become more involved in math and science and it has helped my grades. To me, Space Camp is just like a school, but it's also a lot of fun."

In Solon, Klein finds time for competition in the Science Olympiad, works on various science projects, plays in the school band and is a member of Students Against Drunk Driving (SADD). He sometimes conducts Saturday morning teaching sessions at Solon High School for area students in grades 4-6. Not surprisingly, his subjects are space and the universe.

"I want to major in aerospace engineering at Ohio State and eventually become an astronaut," said Klein. "I would really like to be a mission specialist."



Corporate SPACE ACADEMY Planned for Fall of '92

U.S. SPACE CAMP, in Huntsville, Ala., is scheduled to begin a new program this fall aimed at using the excitement of space exploration to help enhance communication, cooperation and accountability in the work places of corporate America.

Corporate SPACE ACADEMY, in cooperation with Competitive Edge, Inc., will provide tailored programs for corporate employees that emphasize leadership, teamwork, problem solving, planning and motivational skills relevant to their particular company.

Competitive Edge specializes in programs to help people achieve their maximum potential and therefore contribute to the organizational growth and profit of their employers.

U.S. SPACE CAMP Director Edward O. Buckbee says a program that appeals to corporate America is a logical addition to the stable of SPACE CAMP programs.

"The success of the American space program is built on leadership, teamwork and motivated people," he said. "A successful business relies on the same factors. Corporate Space Academy will offer companies the opportunity to place their employees in a unique atmosphere with the reputation of motivating people to think and prepare for the future."

All Corporate SPACE ACADEMY teams will consist of employees of the same company, an estimated 15 people to one team. Plans call for a maximum of two teams per weekend session, which will stretch from Thursday night through Sunday afternoon.

Curriculum will be divided about evenly between tailored seminars and SPACE ACADEMY activities, such as astronaut simulator training and, the ultimate display of teamwork, simulated space shuttle missions.

The tuition includes a flight suit, a space shuttle model, lodging at the Space Center Marriott, meals, training materials and manuals, and special guest speakers, including astronauts.

Corporations interested in more information about Corporate SPACE ACADEMY can call 1-800-63 SPACE. Reduced transportation rates through Delta Air Lines, the official airline of U.S. SPACE CAMP, and Budget, the official car rental service, can be discussed by calling the same toll-free number.

24 Hour Shuttle Mission Set for Fall ACADEMY II Sessions

Three SPACE ACADEMY Level II sessions and one Adult SPACE ACADEMY Level II session this fall will include a 24-hour space shuttle mission during the eight-day program.

The expanded mission will include up to two six-hour EVA's that will feature the capture, repair and re-deploy of a satellite; building of an Access Tower; capture and re-deploy of LDEF (Long Duration Exposure Facility) and a vertical wall EVA. Meals will be eaten in the mission simulators.

Trainees will also utilize a newly expanded ACADEMY II Space Station which features two modules (U.S. Lab and Columbus) connected by a node. New and expanded experiments will include robotics, holography, space physiology experiments and gene mapping. The node will be used as an airlock for the EVA crews and as an additional experiment area.

More detailed and expanded anomalies (sometimes known as "unexpected prob-

lems thrown at us by counselors") will be given to the mission control crew and the orbiter commander and pilot.

Level II students who attended from 1987-89 will remember that the 24-hour mission was a standard part of the then 10-day program. When the youth Level II program shortened to eight days in 1990, the mission was reduced to 12 hours.

Here's a list of ACADEMY Level II sessions which will include the 24-hour space shuttle mission. Others may be added at a later date. **Call 1-800-63 SPACE now to make your reservations while space is still available for these dates:**

International SPACE CAMP Gearing-up for Third Year

International SPACE CAMP plans are being finalized for 1992 that will bring some 176 participants together in Washington, D.C. and Huntsville from July 30-August 7.

Among the invited participants will be two students and one educator from each of 42 countries and the "Teacher of the Year" representative from all 50 states. A group of teachers, sponsored by corporate partner Rockwell International, will attend a special program the week before ISC and remain in Huntsville to greet the arriving ISC participants.

The international contingent will arrive in Washington, D.C. on July 30 for two days of activities, including an address by NASA Administrator Daniel Goldin, before departing for Huntsville.

"International SPACE CAMP offers a wonderful opportunity for young people and educators to continue to create a true cooperation among all countries in future space exploration," said Edward O. Buckbee, U.S. SPACE CAMP Director.



SPACE ACADEMY Level II trainee Tiffany Sturgis, of Roseville, Calif., (left) and a teammate attempt to retrieve the LDEF satellite using a procedure similar to that used by astronauts aboard Space Shuttle Endeavour in May.

YOUTH LEVEL II PROGRAM

Session #40	Oct. 3-10
Session #44	Oct. 31-Nov. 7
Session #50	Dec. 12-19

ADULT LEVEL II PROGRAM

Session #49	Dec. 5-12
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W e Want To Hear From YOU!

Everyone likes to receive mail. The SPACE CAMP NEWS is no exception.

We want to hear from you about what you have been doing since your session(s) at SPACE CAMP, ACADEMY, AVIATION CHALLENGE, an adult program, Parent-Child Camp or an educator session. How have you benefited from attending? How many times have you attended a program and when will you attend another? Have you maintained contact with your teammates? What are you telling your friends and teachers about SPACE CAMP? Are you taking more math and science subjects in school?

In each future issue of SPACE CAMP NEWS, we will print excerpts from your letters (as many as space will allow) as a way of keeping in touch with our alumni and keeping you in touch with each other.

Send your letters and comments to: **Editor, SPACE CAMP NEWS, U.S. SPACE CAMP, 1 Tranquility Base, Huntsville, AL 35807.**

We look forward to hearing from you!

From the Mailbag

"I have been motivated to do better in school and at this time I am getting A's and B's instead of C's and D's. The SPACE ACADEMY Level II helped me get my grades back together and I think it can do the same for others."

Patrick Davis
Renton, WA

"The ACADEMY let me realize that....my dreams are not beyond reach. I gained confidence that has helped me immensely since I returned home."

Rebecca S. Monroe
Glendale, AZ

"Jenna's weeks there (at SPACE ACADEMY) did so much to mold her dreams and goals. I wish I could thank everyone there who had such an influence on her."

Mari-Ellen Barasch
Shelby Twp, MI
(Mother of Jenna Barasch, now attending the Air Force Academy)

"SPACE CAMP initiated my interest in technology..."

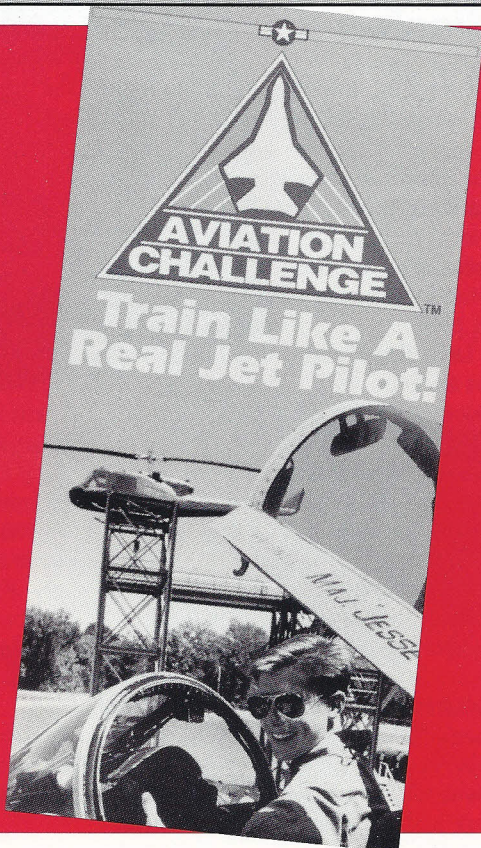
Ursula Leubner
Rochester, NY

"I began to take math much more seriously as a result of SPACE CAMP..."

Patricia Gossett
Birmingham, AL

More to See and Do at AVIATION CHALLENGE

AVIATION CHALLENGE participants are enjoying some new additions in the curriculum including the opportunity to see the F-111 and A-7 Corsair fighter jets. Call 1-800-63 SPACE to get your free AVIATION CHALLENGE brochure and discover more about this exciting program for students in grades 7-12 and adults. Space is still available for the 1992 season.



National Launch System Contest Postponed; Scholarship Will Be Awarded

In the winter 1992 SPACE CAMP NEWS, we announced the opportunity for you to propose names for America's next space transportation system, and subsequently, experienced favorable response from several hundred of you.

Due to definition requirement changes, the NLS vehicle family may undergo significant modifications which could result in the elimination of one of the vehicles.

The NASA and Air Force budget constraints have also deferred full scale development while extending studies to consider these changes. Due to these events, NASA and Air Force have decided to postpone naming the vehicles within the NLS family.

Your contest entries have been carefully cataloged and computer-stored by NASA for utilization in the future, should the opportunity occur. NASA regrets this occurrence, but wants to assure you that the changes being considered will enable our nation to make the right choices to assure that the United States remains the world's leader in space exploration.

A NASA spokesperson proclaimed that your interest in aerospace is stimulating and inspiring and many, such as you, will be involved in making today's vision a reality.

U.S. SPACE CAMP has decided reader efforts in entering the contest should be rewarded. Therefore, a name from your entries will be selected and a scholarship will be awarded. However, the name selected by U.S. SPACE CAMP should in no way be interpreted to be the official or unofficial name of any future NASA vehicle. U.S. SPACE CAMP is selecting a winner for what we feel is our obligation to our readers to honor a commitment.

The scholarship winner will be notified in the near future and his or her name will appear in a future edition of SPACE CAMP NEWS.



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Call NOW to make your 1992 Fall and Winter reservations in SPACE CAMP, SPACE ACADEMY Level I and Level II. Call 1-800-63 SPACE.

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Training Centers in Alabama and Florida

SPACE CAMP

Book Now Available

You may want to check your favorite book store for **Space Camp - The Great Adventure for NASA Hopefuls**. It's on the stands!

The book (see photo at left) is written by Anne Baird, author-artist for a series of Wee William books and The Christmas Lamb, and features 50 full-color photographs by award winning photographer Robert Koropp. The 48-page photo essay follows a group of budding astronauts through their five-day training program in Huntsville.

Admiral Alan B. Shepard, Jr., American's first man in space, says the book "beautifully captures the excitement and drama of youngsters living a remarkable adventure in space without actually having to leave the ground."

U.S. SPACE CAMP Founder and Director Edward O. Buckbee provides the introduction. He says the text and photographs illustrate "the diversity, excitement and challenge that is the Space Camp experience, and will inspire all those who want to make the universe that is space their own."

Published by Morrow Junior Books, The Official U.S. SPACE CAMP Book has a list price of \$14. It's recommended for ages eight and up.

Space Camp - The Great Adventure for NASA Hopefuls should bring back some great memories for all past participants in SPACE CAMP programs, and help set the stage if you plan to attend in the future.

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