

# U.S. SPACE CAMP® U.S. SPACE ACADEMY™ OFFICIAL 1988 APPLICATION



The Space & Rocket Center **NASA**  
Visitor Center

HUNTSVILLE, ALABAMA

# INDEX

Training Center .....	2
Space Camp .....	4
Space Academy, Level I .....	7
Space Academy, Level II .....	10
Application/Health Form .....	13
Space Academy, Adult Program, Level I & II .....	17
Group Rates .....	19
Phone Calls and Mail .....	19
How to Register/Refunds .....	20
Session Dates .....	21
Transportation/Airlines .....	22
Graduation/Hotel .....	23
General Information .....	24
Space Club .....	25
Answers to Questions .....	26
Corporate Sponsors .....	29



COVER: Trainees gather at the Pathfinder, the 98-ton, full-size Space Shuttle, the only such model on permanent display on Earth. NASA built it in 1977 as an orbiter simulator for facility testing in Huntsville.



You are on the threshold of an incredible journey: life in the 21st Century. It will arrive quicker than you imagine; in fact, about the year you graduate from college.

And the countdown has already started.

Your level of achievement in math and science and the educational opportunities you encounter now will determine, to a great extent, whether you will play a major role in charting new directions or merely observe from a distance.

If you are eager to fly a plane or the shuttle, come and learn. With assistance from NASA and its team of contractors, you'll approach the aerospace field methodically and correctly.

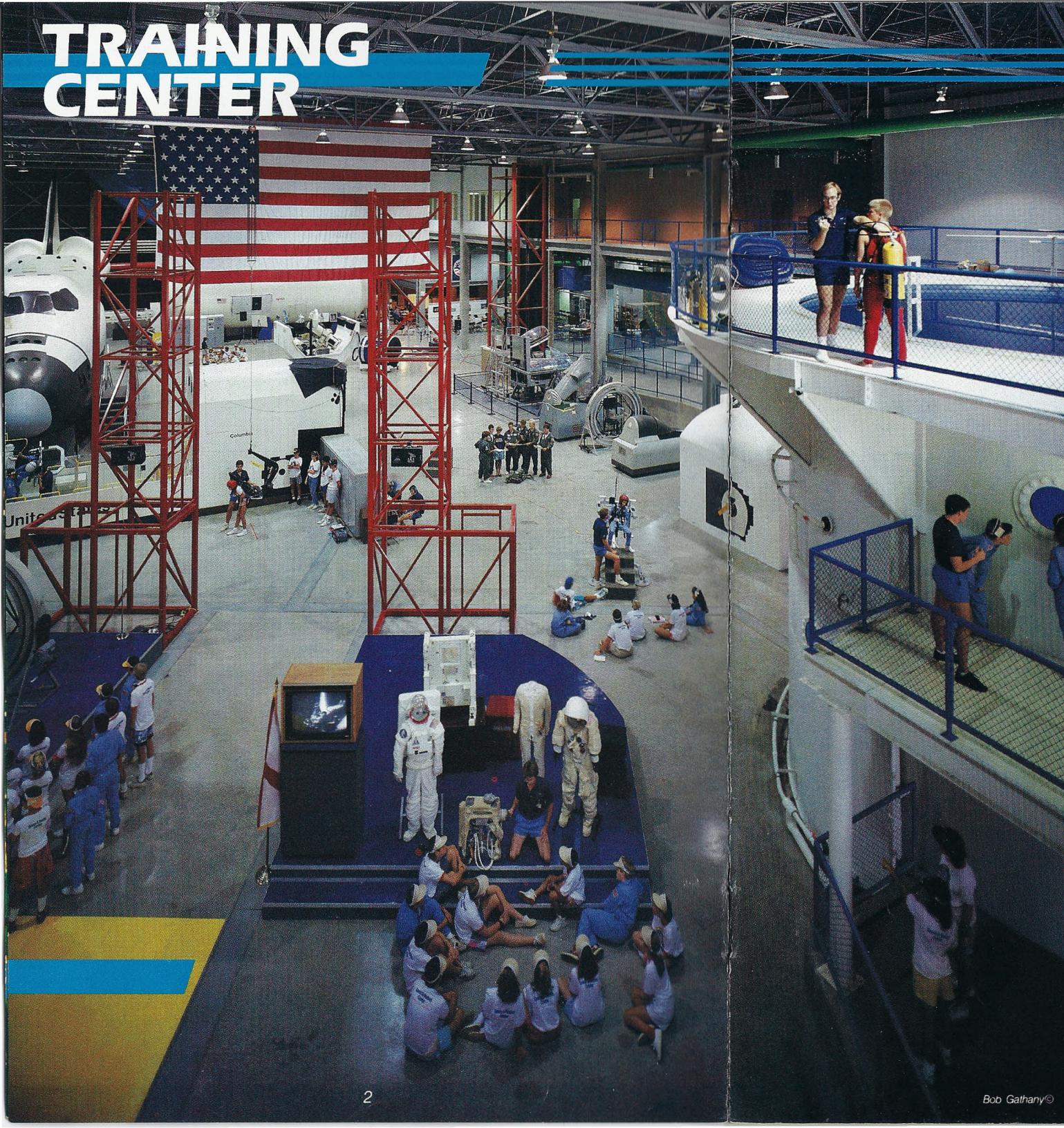
SPACE CAMP and SPACE ACADEMY are the most exciting and rewarding opportunities on Earth for people your age who are eager to get involved. Here you explore all fields, from the design of rockets and spacecraft to how astronauts conduct microgravity experiments beyond Earth's atmosphere.

We're looking for young people who know that you can't learn firsthand what it's like to be on a shuttle crew from just reading or watching television. Come size up a full-scale orbiter, climb aboard a simulator and suit up for flight. Learn how important mission control jobs are and study about other careers in the space program of the 21st Century.

It's quite likely that the first American to walk on Mars is about your age right now. You can help put that person there. Or be that person yourself.

Edward O. Buckbee, Director  
The Space & Rocket Center

# TRAINING CENTER



**P**reparing for your simulated Space Shuttle mission in the new Training Center will give you the feeling you're at NASA, getting ready for the real thing.

With the layout of training equipment similar to that used by astronauts John Young, Sally Ride, Joe Allen and Kathy Sullivan, you'll fly the simulator like NASA astronauts, deploy satellites and operate space-related equipment. You'll become familiar with such equipment as the "one G trainer," the "flat floor" and other simulators. The highest fidelity cockpit this side of the shuttle is here along with training equipment available only for participants in our programs. Completed at a cost of \$4.5 million to duplicate the functions of equipment and training at the astronaut training center at NASA-Houston, the Huntsville facility contains 70,000 square feet, some five times larger than the area previously devoted to SPACE CAMP activities. An expanded cafeteria adjoining the Training Center is operated for the program participants.

Family members and other visitors to the space museum can oversee the training and missions in progress from a special viewing area without disrupting the action. Outside is the Pathfinder, the first full-scale orbiter mockup on permanent display in the world.

The new Training Center is the focal point of activity and contains an extensive selection of simulators, from flight decks and micro-gravity simulators to the 123,000-gallon Underwater Astronaut Trainer.

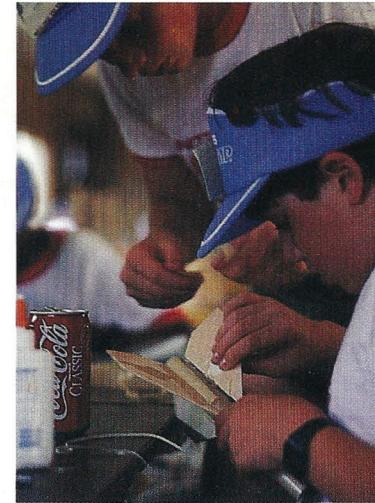
# SPACE CAMP



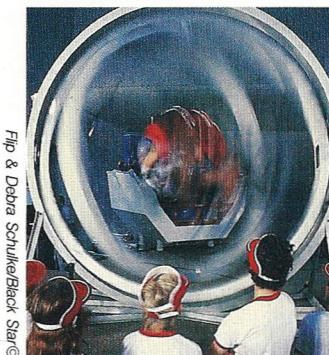
Flip & Debra Schulke/Black Star ©

SPACE CAMP is a week-long program for youngsters completing grades 4, 5, 6, 7.

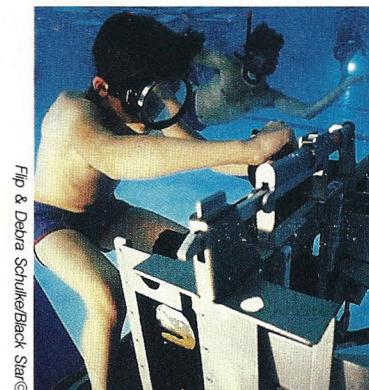
## FIVE-DAY MISSION



Flip & Debra Schulke/Black Star ©



Flip & Debra Schulke/Black Star ©



FACING PAGE: Spacesuit try-on.  
TOP: Trainees assemble individual rockets.  
CENTER: Team leader demonstrates Multi-Axis Trainer.  
BOTTOM: Camper performs gravity exercise underwater.

### ARRIVAL DAY

Check-in is scheduled from 2-5 p.m. in the Training Center wing of the space museum. Follow signs to Registration. You'll meet your team leader and other members of your team, followed by Orientation.

### DAY ONE

Trainees are briefed on basic principles of propulsion and spacecraft guidance and control on ROCKETRY DAY before beginning assembly of their own individual model rockets. A guided tour of the rocket park which former Astronaut John Glenn calls "the most complete in the world" identifies the roles of each rocket in the advancement of the space program. Most of the rockets were engineered and tested at the nearby NASA-Marshall Space Flight Center and the U.S. Army-Redstone Arsenal. Beginning tonight, such Omnimax films as "To Fly," "Hail Columbia," and "The Dream is Alive" are shown in the Spacedome Theater.

### DAY TWO

NASA astronauts train for many years before their first flight. The mission of ASTRONAUT TRAINING DAY involves trainees in a variety of specific activities, from packaged food and waste management systems to life support systems for living in space. They handle and try on spacesuits and helmets and study actual Mercury and Apollo spacecraft that have flown in space. A tour of the NASA center where tomorrow's space missions are being planned is on the agenda.

### DAY THREE

A highlight of the week, MICROGRAVITY DAY, casts youngsters in the role of astronauts preparing for space walks and coping with the "zero gravity" of space. They practice in the Moon Walk Trainer, which simulates the sensation of walking on the Moon, where body weight is one-sixth that of normal.

They observe as their team leader spins and tumbles in the Multi-Axis Trainer, similar to the device in which Mercury and Gemini astronauts were conditioned should their craft tumble out of control. They experience the sensation of up to 3 G's—or triple normal body weight—during launch in the Lunar Odyssey and rendezvous with an orbiting space station while aboard the Shuttle Space Liner. A behind-the-scenes tour of NASA's neutral buoyancy tank—a million gallon water tank where astronauts have trained—prepares them for an underwater task involving simulated weightlessness. They become involved in directing an underwater simulation at U.S. SPACE CAMP's underwater astronaut trainer.

## DAY FOUR

NASA's Marshall Space Flight Center is in the forefront of planning the nation's first permanent Space Station. Campers study development of large space structures and their benefit for mankind. The mission of TOMORROW'S TECHNOLOGY DAY outlines a variety of careers in the aerospace field—apart from that of astronaut—that will be available in the future. They also launch their model rockets which they have built to carry a "cricketnaut" passenger.

## DAY FIVE

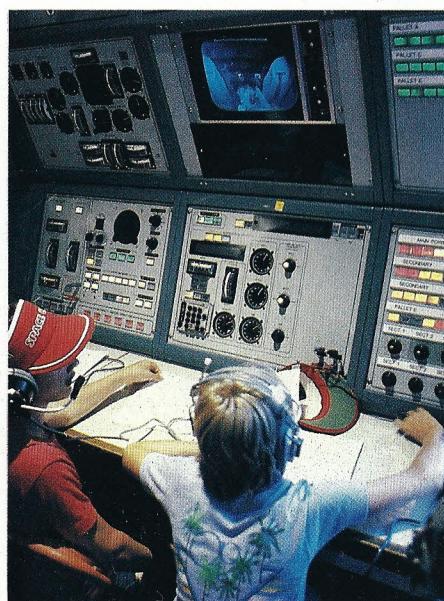
The culmination of the week is SPACE SHUTTLE MISSION DAY, an experience about which most youngsters can only dream. Each team of 12 youngsters is divided into crews for the shuttle spacecraft and Mission Control. Using equipment acquired from NASA, team members conduct a simulated mission, beginning with checkout, countdown, launch, orbit, and return to Earth. Each team's performance depends upon how well campers apply principles learned earlier in the week.

Note: Activities may occur on days other than listed for best scheduling.

## DEPARTURE

Family members are invited to graduation ceremonies at 1 p.m. where each trainee receives SPACE CAMP wings, certificates and color group photo. Special team awards will be presented at the conclusion of an exciting week. (Remember to get team members' names and addresses in your Astronaut Log to keep in touch!) Schedule airline flights departing after 3 p.m. Unless other arrangements have been made, trainees should have their belongings out of the dormitory by 4 p.m.

**TUITION.** The fee (\$425 for weeks in March, April, and May; \$525 in June, July, and August) includes meals, educational program and materials, accommodations, T-shirt, and visor.



Flip & Dobra Schaffter/Black Star ©

ABOVE: Mission control team interacts with crew.  
FACING PAGE: The commander and pilot prepare for countdown in a SPACE ACADEMY Level I mission.

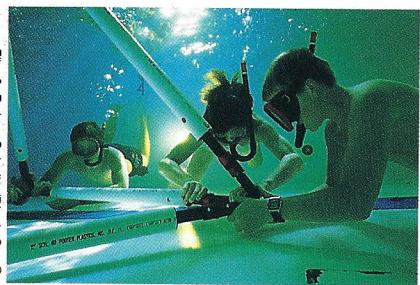
# SPACE ACADEMY

## Level I



Level I is a week-long program for trainees completing grades 8, 9, 10. Prior participation in SPACE CAMP is not required. (Also available for 7th graders who have completed SPACE CAMP.)

# FIVE-DAY MISSION



## ARRIVAL DAY

Check-in is scheduled from 2-5 p.m. in the Training Center wing of the space museum. Follow signs to Registration. Get acquainted with other members of your team during Orientation.

## DAY ONE

The space odyssey begins on SHUTTLE OPERATIONS DAY with familiarization of the shuttle cockpit and ground control simulators developed exclusively for the SPACE ACADEMY program. The full-scale Spacelab module is derived from the actual payload crew training model they tour at the Marshall Space Flight Center, NASA's lead facility where payload crews train. The Mission Control Center in Houston is reproduced to track the simulated flights. And the shuttle cockpit is accurate, including its four-directional capacity to maneuver during launch and the return to Earth.

## DAY TWO

After being divided into teams, the trainees narrow their choices and begin training for their mission assignments. Most will train simultaneously for crew and ground positions. The purpose of MISSION ASSIGNMENTS DAY is sharpened with studies of various spacesuits as life-support systems during spacewalks.

## DAY THREE

As the countdown begins on the missions, the investigation of payloads on MISSION EXPERIMENTS DAY intensifies, covering satellite deployment, pallets, and operation of the large remote manipulating arm as related to missions in the two following days. Training for mission experiments prepares them for the actual, real-time experiments scheduled onboard. They handle experimental equipment to understand the objectives and mechanics of the scientific investigations, as well as how to evaluate results. Additionally, they construct a large space structure under water in simulated weightlessness.

Flip & Debra Schulte/Black Star ©

TOP: Principal investigator monitors data.  
CENTER: Trainee practices tetrahedron assembly.  
BOTTOM: Assembly in simulated weightlessness.

## DAY FOUR

Each flight team begins the series of Spacelab flights that occur over a two-day period. On MISSION ONE DAY, dramatic countdown and launch are monitored by the ground control team on a multi-screen system. A computer-generated image of the shuttle orbit tracks the path as the commander and pilot operate the control system of the simulator to achieve proper orbit. The payload specialists conduct actual experiments inside the Spacelab module and in the Space Station, while mission specialists conduct "space walks" outside of the crew cabin. After docking with the Space Station, the shuttle crew returns to Earth.

## DAY FIVE

Team members exchange assignments on MISSION TWO DAY to increase their exposure to both onboard activities and

ground support roles. A debriefing follows each mission.

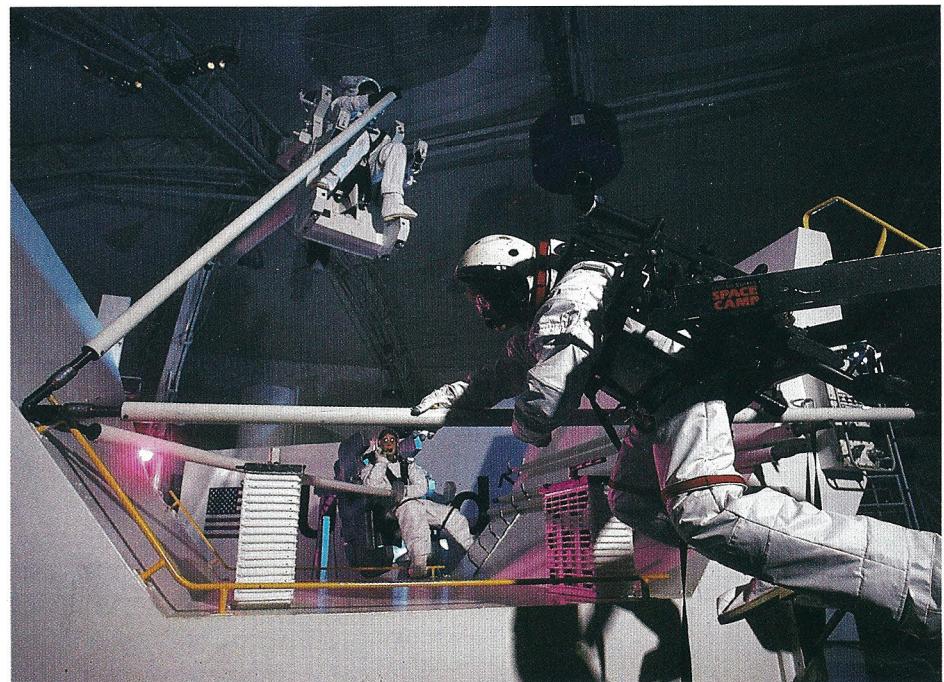
Note: Activities may occur on days other than listed for best scheduling.

## DEPARTURE

The presentation of awards, wings and certificates during graduation ceremonies at 1 p.m. concludes the unique educational experience. Family members are invited. Schedule airline flights departing after 3 p.m. Unless other arrangements have been made, trainees should have their belongings out of the dormitory by 4 p.m.

**TUITION.** The fee (\$475 for weeks in March, April, and May; \$575 in June, July and August) includes meals, educational program and materials, accommodations, T-shirt and cap.

*Trainees utilize three simulators during Extra Vehicular Activity (EVA).*



# SPACE ACADEMY

## Level II-ACCREDITED



Homer Hickam

**Level II is a college accredited 10-day program which emphasizes the academic foundation for space-related careers. Grades 11, 12 and college freshmen. Prior enrollment is not required.**

## TEN-DAY MISSION

### THE MISSION

To help train America's youth for the demanding careers that lie ahead in aerospace and other high-tech fields, the Space and Rocket Center has added an accredited advanced level to its SPACE ACADEMY programs. Level II students train in aircraft cockpit trainers, the Underwater Astronaut Trainer and use computer programs from NASA Spacelab missions. The program features team design and construction of a space payload and extended simulated Space Shuttle missions.

Enrollment is open for high school juniors, seniors and college freshmen. It is also available for 10th graders who have completed Space Academy Level I. Prior enrollment in Space Academy is not required.

Level II covers 95 hours of instruction in 10 days. Registration is on Friday from 3-5 p.m., with graduation on Sunday at 1 p.m., families welcome.

### THE PROGRAM

The training curriculum for Level II is patterned from NASA crew training manuals and is performed in facilities designed from astronaut training simulators. The academic curriculum is written and kept current by engineers and scientists currently working at NASA and in the private sector, by University of Alabama professors and researchers, and by certified instructors in aviation and scuba. The education committee is directed by Space Shuttle payload specialists scheduled for future missions, teacher-in-space finalists, university and corporate professionals and classroom teachers.

Space Academy team leaders and counselors are highly motivated and well-trained young adults who attend universities throughout the U.S. Most are seeking degrees in engineering, science, or education as their career goals.

*FACING PAGE: Space Academy Level II trainee works inside the 30-foot deep Underwater Astronaut Trainer following a brief scuba course. The tanks holds 123,000 gallons of water.*

Students receive sound academic instruction, authentic astronaut training procedures, visit state-of-the-art technology centers developing tomorrow's space programs, and have an opportunity to explore future careers by talking with current space professionals.

### MISSION PROFILE

Stand by to launch yourself into 10 days of the best space training this side of the Astronaut Corps! Level II combines academics with flight training patterned after the astronauts' own training schedules. All students are trained in Space Shuttle flight and ground crew procedures, and will receive academic instruction to enhance their understanding. Students entering Level II will be placed in one of three tracks of study and training: aerospace (pilot or commander), engineering (mission specialist), or science (payload specialist). The three tracks will combine as a team for final training and simulated missions.

**AEROSPACE TRACK**—Aerospace track trainees focus on the foundations needed for a potential aerospace engineer, Shuttle commander or pilot, or aviation career. The academic program includes celestial navigation, aviation ground schooling, meteorology, orbital mechanics and space piloting. Field visits will include the U.S. Air Force Arnold Engineering Development Center where advanced wind tunnel facilities are testing tomorrow's fighter aircraft, or a visit to the "flight line" of the Air National Guard for briefings, engine testing and a day's mission.

**ENGINEERING TRACK**—Engineering track students study robotics, optics, materials science, structures, thermodynamics, and space environment to prepare for their mission specialist role. They are trained in scuba techniques to conduct EVAs and microgravity experimentation in the Underwater Astronaut Trainer at U.S. SPACE ACADEMY.

**SCIENCE TRACK**—Science students design, build and conduct their own Space Shuttle experiments with instruction in solar and space plasma physics, space biology, astrophysics, remote sensing, materials science, optics, computers and instrumentation.



tion. Scuba instruction will allow them to test their experiments in a simulated microgravity environment prior to mission simulations. Their experiments will be considered as candidates to fly on future Shuttle missions in the Space and Rocket Center's "Getaway" Special canisters.

Applicants will be sent forms for parent/guardian approval for scuba instruction. Minimum physical requirements: height of 5 feet, weight of 100 pounds, age 15 and no history of asthma.

**MISSION PLANNING**—Teamwork is the key to space missions. All three Level II tracks work together in integrated working group sessions to plan their Space Shuttle "missions" using NASA's Mission Integration Planning Software. Scientists design the experiment package or satellite, engineers construct and test it and aerospace students coordinate the Shuttle's position and orientation to accomplish the experiment's goals.

## DEPARTURE

With graduation ceremonies beginning at 1 p.m., those departing Huntsville by air should make reservations for flights after 3 p.m. Unless other arrangements have been made, please have your belongings out of the dormitory by 4 p.m.

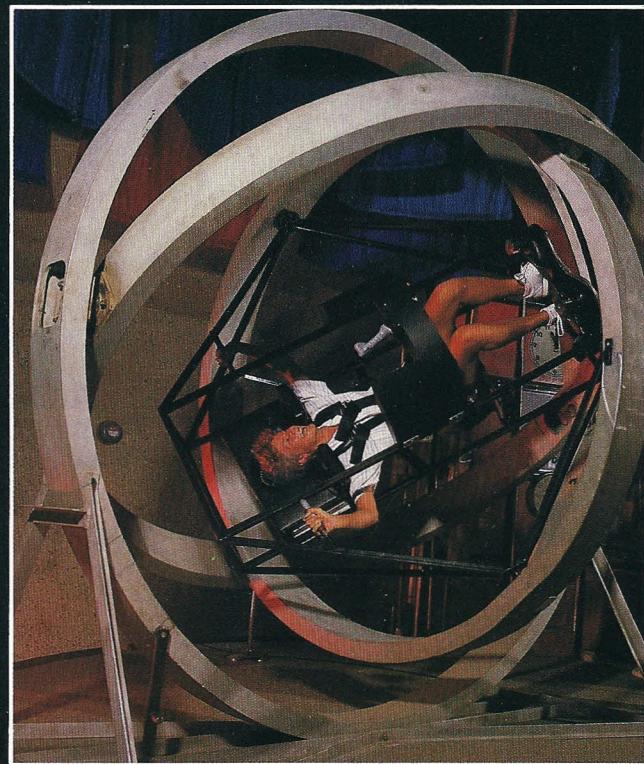
**TUITION**—The tuition of \$775 for the college-accredited program includes meals, accommodations, program travel and educational materials. (Tuition subject to change.)

**ACCREDITATION**—Completion of each track (aerospace, engineering and science) earns 1 hour credit of freshman-level science from the University of Alabama in Huntsville. Educators and parents wishing to obtain information concerning granting academic credit for Level II students may phone the Director's office at The Space and Rocket Center.

ABOVE: A payload specialist observes a pilot checking out the F-86 trainer during SPACE ACADEMY Level II activities.

# SPACE ACADEMY

## Adult Program Level I & II



Three-day sessions include highlights from SPACE ACADEMY and operate beginning each Friday and Sunday in the fall. Special 10-day Space Academy Level II sessions are available for adults. Check for dates.

# THREE-DAY MISSION

The Training Center enhances the experience for adults participating in three-day sessions of SPACE ACADEMY. While program material might not be difficult enough for pilots, engineers, and aerospace-trained personnel, the broad range of subjects and activities brings a unique "astronaut experience" within the grasp of the general public and professionals alike.

## DAY ONE

After registration and check-in, senior staff members conduct an orientation on the Space Shuttle, mission simulation, and astronaut training activities. Participants learn that the shuttle's propulsion system was developed in Huntsville by NASA and its contractors. The 40 trainees are divided into the Atlantis and Discovery teams for mission preparation. The active, hands-on program continues with simulator orientation. Participants experience activities in two space walk simulators: The Five Degrees of Freedom (5DF) and the Manned Maneuvering Unit (MMU).

## DAY TWO

Atlantis team members take turns inside the Multi-Axis Simulator while the Discovery team experiences triple gravity in the Lunar Odyssey and tours the Earth's largest space museum. In the next period, the schedule is reversed. One group takes positions in mission control and the shuttle simulator for mission practice while others experience one-sixth gravity in a device similar to the one that trained Apollo astronauts to walk on the Moon. In each mission, the 20 members are divided into two groups. The flight crew strap themselves inside the shuttle trainer for countdown and launch. During "space walks," mission specialists erect a tetrahedron and perform other duties.

## DAY THREE

The final day goes by quickly, with the second round of shuttle simulations. Team members who performed tasks in mission control take their seats in the shuttle and flight participants fulfill their new duties in

ground control. Recipients of "The Right Stuff" awards are announced, along with presentation of wings and certificates.

## SUNDAY

A highlight of Sunday afternoon is a presentation by a visiting astronaut. The schedules of various astronauts associated with SPACE ACADEMY determine which astronaut visits with participants.

**TUITION**—SPACE ACADEMY registration fee is \$450 and includes meals and dormitory accommodations.

## DAYS ONE-THREE

A condensed version of the 10-day Space Academy Level II, which specializes in aerospace, engineering and science is available for adults who have previously experienced the three-day adult Level I program. Level II adults utilize the most sophisticated simulators and hardware outside the Astronaut Corps, and conduct extended missions including Space Station and the Underwater Astronaut Trainer.

## CHECK-IN/OUT

Friday registration begins at 8 a.m., with graduation Sunday at 5 p.m. Sunday registration is at 2 p.m., with graduation Tuesday at 7 p.m. Airport transportation is included in tuition.



ABOVE: Adults applaud successful mission.  
FACING PAGE: Full-Scale flight and mid decks provide simulation work areas for Level II trainees.

# REGISTRATION



Bob Gathany ©

## SPECIAL GROUP RATES

Schools and other education groups may receive special group rates for sending more than 10 youngsters to an individual session.

For printed information, contact the Reservations Office at 1-800-633-7280.

## SCOUTS EARN MERIT BADGE!

Boy Scouts complete the requirements of the Space Exploration Merit Badge during SPACE CAMP and, upon request, will receive a signed form to take to their Scoutmaster.

## PHONE CALLS and MAIL

**PHONE CALLS** can not be received by participants on a routine basis because they are involved in many areas of the Space Center and touring other space-related centers in the Huntsville area. Pay phones are conveniently located throughout the facilities for use during break times each day.

In case of an emergency, call the Space Center's switchboard 205-837-3400 at any hour day or night.

**MAIL** can be received at the following address:

**NAME, DATE REGISTERED  
SPACE CAMP (or SPACE ACADEMY)  
One Tranquility Base  
Huntsville, AL 35807**

Please allow four to five days for mail delivery from more than 100 miles away. Also, please put the date of the session for which the person is registered on the envelope for timely delivery.

# HOW TO REGISTER

Your parent/guardian may use a credit card to reserve a specific session by phone, and should forward the completed application by mail. Phone toll-free to the Reservation Center for assistance at

**1-800-633-7280**

We accept Visa, MasterCard and the American Express Card.

If you register by phone, PLEASE indicate this on the printed application you mail later so your credit card will not be charged twice. Your account will be billed upon reservation.

Registration may also be made by mailing the completed application with appropriate choices of dates (pending availability) with a check or money order payable to "The Space and Rocket Center."

You will receive a printed Confirmation Notice of your registration and a Transportation Form for you to complete and return should your arrival be other than by car.

**PLEASE NOTE:** Keep this booklet until you leave home to answer your questions about transportation, items to bring, graduation, etc.

# REFUNDS

Should it become necessary to cancel registration, a portion of the tuition is refunded on the following schedule:

- 80 percent of the fee is returned if written notice is received four weeks or more prior to the session start;

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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31																											

MAY							JUNE							JULY							AUGUST						
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29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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							30	31																				

# 1988 SESSION DATES

## SPACE CAMP/ACADEMY, Level I

February 21-26  
 February 28-March 3  
 March 6-11  
 March 13-18  
 March 20-25  
 March 24-29  
 March 27-April 1  
 March 31-April 5  
 April 3-8  
 April 10-15  
 April 17-22  
 April 24-29  
 May 1-6  
 May 8-13  
 May 15-20  
 May 22-27  
 May 29-June 3

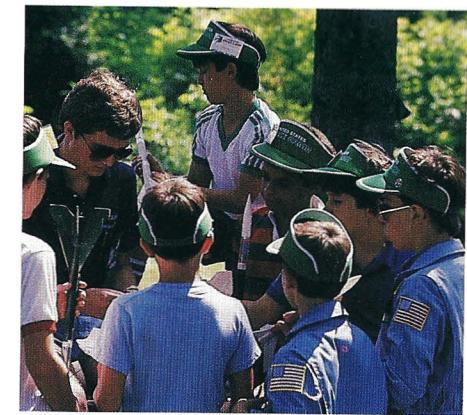
## SUMMER

June 5-10  
 June 9-14  
 June 12-17  
 June 16-21

## SPACE ACADEMY, Level II

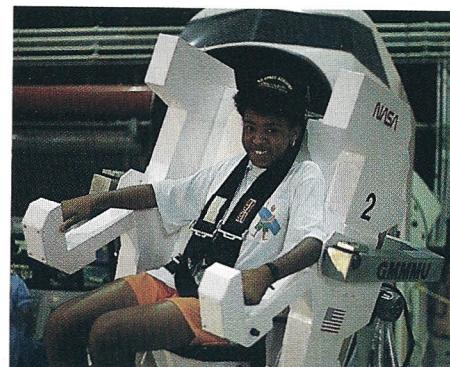
March 4-13  
 March 11-20  
 March 18-27  
 March 25-April 3  
 April 1-10  
 April 8-17  
 April 15-24  
 April 22-May 1  
 April 29-May 8  
 May 6-15  
 May 13-22  
 May 20-29  
 May 27-June 5  
 June 3-12  
 June 10-19  
 June 17-26  
 June 24-July 3  
 July 1-10  
 July 8-17  
 July 15-24  
 July 22-31

NOTE: Easter is April 3 and Labor Day is September 5.



## SPACE ACADEMY, Adult Program, Level I, II

September 16-18	October 28-30
September 18-20	October 30-
September 23-25	November 1
September 25-27	November 4-6
September 30-	November 6-8
October 2	November 11-13
October 2-4	November 13-15
October 7-9	November 18-20
October 9-11	December 2-4
October 14-16	December 4-6
October 16-18	December 9-11
October 21-23	December 11-13
October 23-25	December 16-18



TOP: Colored visors identify specific teams in SPACE CAMP sessions. BOTTOM: A trainer prepares for an activity in the Ground-Mounted Manned Maneuvering Unit.

## AIRLINES RESERVATIONS

Continental and Eastern Airlines, the official airlines of SPACE CAMP and SPACE ACADEMY, offer attendees and their families special discount fares to Huntsville, Alabama.

Eastern offers a minimum 50 percent discount off the round-trip coach (Y) fare. Continental also offers attractive discount fares. Reservations made at least 30 days prior to departure may result in an even larger air fare discount.

Unaccompanied children receive assistance from Continental and Eastern Special Services programs. Upon flight confirmation, participants will be sent a special identification badge to ensure special handling by the two airlines from departure to arrival. In addition, family members can enjoy airline discounts to visit SPACE CAMP and attend graduation.

To receive the special discounts and services from Continental and Eastern, call

**1-800-468-7022**

and refer to Easy Access code EZ 14 GP 24.  
(In Florida, phone 1-800-282-0244.)



Counselor meets each youngster at the airport.



**CONTINENTAL / EASTERN**

## TRANSPORTATION

A staff member with a Space Center badge will be at the airport gate or bus station to meet participants who are not arriving by automobile.

If there is a transportation problem en route or upon arrival, call the SPACE CAMP office at (205) 837-3400, identify yourself and state your present location and problem. Important: do not leave the airport or bus terminal. Your problem will be resolved.

### IMPORTANT: TRANSPORTATION FORM

If you are planning to arrive by plane or bus, you will receive a Transportation Form with your Confirmation Notice. Please complete and re-

turn it not later than **FOUR WEEKS** prior to your scheduled session.

If we have not received the Transportation Form **TWO WEEKS** prior to the program date, we will assume you are arriving by car and, therefore, we will not have Space Center personnel scheduled to meet your plane or bus.

Please notify the Space Center office if there is any change in your transportation arrangements or if the method of transportation changes from that indicated on your application.

## GRADUATION

Family members are invited to participate in Huntsville graduation activities at the conclusion of the session. For a complete Family Day tour of facilities, purchase the special Family Day tickets by 8:30 a.m. (\$9 adults, \$6 youth ages 3-11). You'll enjoy a guided bus tour of NASA's Marshall Space Flight Center, a guided tour of the museum and Training Center where our missions are in progress and experience the wonder of the spectacular Spacelab Theater. Best of all, see your youngsters complete the final training requirements at graduation exercises at 1 p.m.

While in Huntsville, stay at the Huntsville Marriott on the grounds of The Space and Rocket Center. Call 205-830-2222 and ask about the special SPACE CAMP Family Rate for \$59 plus tax, available on Friday, Saturday and Sunday, pending availability. Ask about specials for other nights.

The Marriott offers two restaurants, an indoor-outdoor swimming pool and views overlooking the Space Center.



ABOVE: Parents enjoy breakfast prior to graduation. LEFT: Spend a day at the Space Center and a night at the Marriott.



# Marriott

## STAYING OVER?

Consult the appropriate section in this booklet for your program's start and conclusion times.

Oftentimes, airline and bus schedules require trainees to arrive early or leave late. Counselor supervision, meals and lodging are available at the following rate:

- \$20 per day (no overnight accommodations).
- If you need to stay overnight, a fee of \$60.

All early-arrival or late-departure charges are payable four weeks before arrival.

# GENERAL INFORMATION

**WHAT TO BRING:** The average spring and fall temperature is 65 degrees and the average summer temperature is 88 degrees.

- combination padlock for locker
- shorts (in good taste)
- shirts/blouses
- any needed medication
- walking shoes and/or tennis shoes
- toothbrush and toothpaste
- soap
- comb/brush
- sleepwear
- swimwear
- wristwatch
- blue jeans
- raincoat
- notebook and pen
- jacket (spring)
- clothes hangers

PACK IN A CLOTH BAG! Don't overpack!

**HOUSING** is provided in the air-conditioned dormitories on the grounds of The Space and Rocket Center, with team leaders supervising youngsters around the clock. Showers are on each floor. Some stay in a supervised, separate wing of the Huntsville Marriott.

The following items are furnished:

- 2 towels
- 1 bath cloth
- 2 sheets
- 1 blanket
- 1 pillow
- 1 pillowcase

**MEALS** are prepared and served by the food service department of the Space Center, with meals provided from registration through graduation. The cafeteria is housed in the Training Center and also serves visitors to the space museum.

**GIFT SHOPS** are located in the space museum lobby and Training Center for participants to visit during breaks and after graduation. A large selection of official Space Gear clothing, NASA mission insignias, books, postcards and spacecraft models are available for purchase or mail order. For a catalog, call toll-free 1-800-633-7280. Gift shop hours are daily from 9 a.m.-6 p.m., except June-August, 8 a.m.-7 p.m. (A survey of campers indicates they spend an average of \$40 on gifts, souvenirs, books and snacks.)

**GIFT CERTIFICATES** for all programs are available and suitable for presentation for Christmas, birthdays and other special occasions.

**BLUE FLIGHT SUITS** can be purchased in children's sizes for \$69 (adults \$74) upon arrival. To order, check appropriate box on the Registration Form and add the cost to your payment total.

**VIDEOTAPING** of certain program activities is available on a limited basis. You will receive a Video Order Form with your Confirmation Notice if the service is available four weeks prior to your arrival. A limited number are accepted per session.

**SNACKS** are available at several locations during break periods. Soft drinks, crackers and other items are stocked in vending machines at various sites.

**A REGISTERED NURSE** is on duty on the premises 24 hours a day. Emergency health services will be provided ONLY IF the medical form on the reverse side of the application is completed upon registration. **BE SURE TO COMPLETE THE HEALTH INFORMATION SHEET.**



# JOIN THE SPACE CLUB

Youngsters age 8 to 14 can learn more about the space program by joining the U.S. SPACE CLUB.

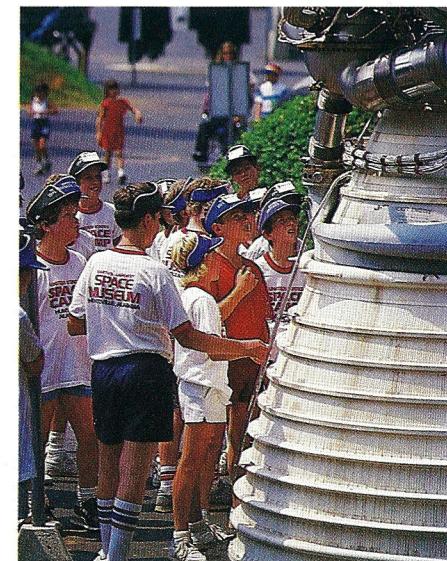
Through a series of four mailings annually, members receive comprehensive workbooks with lively illustrations and puzzles developed exclusively for Club members.

Members also receive SPACE CAMP NEWS, the newsletter that keeps them up-to-date on activities and developments in SPACE CAMP.

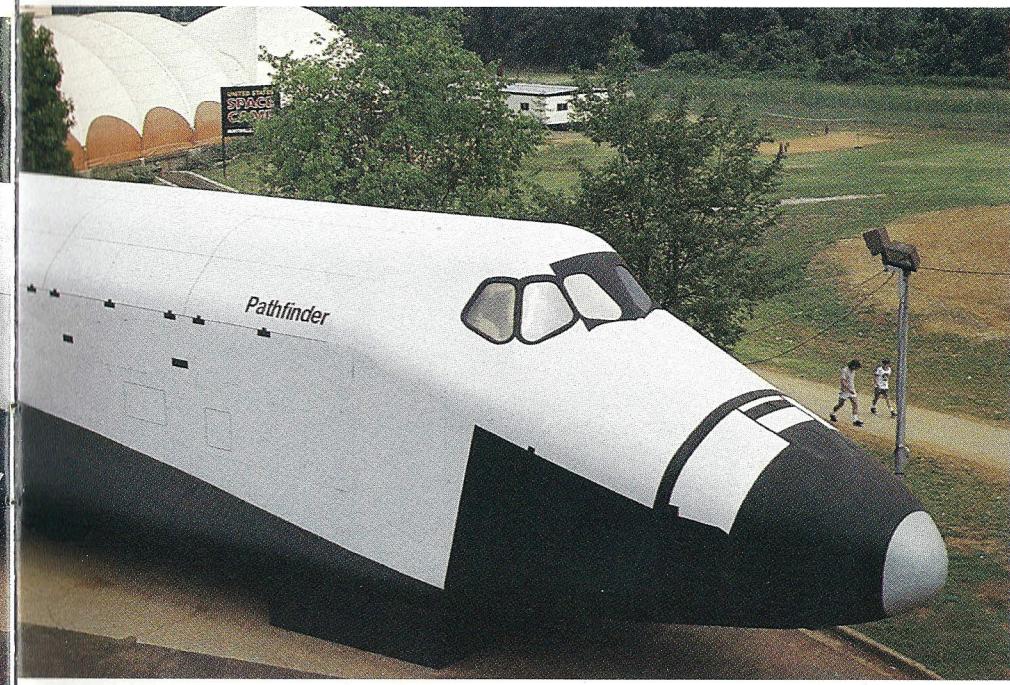
Subjects include space history and new technologies, space terminology, shuttle components and mission objectives and Space Shuttle experiments.

It is an excellent package for youngsters planning to attend SPACE CAMP.

To join, send the annual fee of \$20 with name, address, zip code, age, birthdate and school grade level with parent or guardian signature to: U.S. SPACE CLUB, P.O. Box 1680, Huntsville, AL 35807.



ABOVE: Campers study actual rocket engines.  
BELOW: The Pathfinder, located outside the Training Center, is the newest landmark at The Space and Rocket Center.



# ANSWERS TO FREQUENTLY ASKED QUESTIONS

## **Who can attend?**

Any student from grade four and above who is recommended by a science teacher.

## **When should I register?**

Early registration is strongly recommended. Sessions are filled on a first-come basis. Easter holidays and June and July programs fill quickly.

## **How can I register?**

The quickest way is for your parent/guardian to reserve a session with a credit card. Phone the Reservation Center at 1-800-633-7280 or 205-837-3400. Or send the completed form with your check.

## **Who are the counselors?**

The team leaders are highly motivated and well-trained young adults from universities throughout the U.S. Most have earned or are seeking degrees in engineering, science or education.

## **Will I be met at the airport?**

A badged team leader will have a copy of the transportation schedule you completed and will meet your flight at the gate. Transportation to the airport for your return flight home is also provided.

## **Where will I stay? Eat?**

Supervised, on-site lodging and cafeteria facilities are included in your tuition, unless otherwise noted. See section on early arrival, late departure.

## **Can I get credit for missing school?**

Many schools recognizing the special educational benefits of the program have accredited the program. Consult your principal, teacher, or counselor and have them contact U.S. SPACE CAMP and SPACE ACADEMY about credit.

## **How do most people hear about the programs?**

Referrals from previous participants, science teachers, the National Science Teachers Association, cover story in Boys' Life magazine, science museums.



The Training Center is flanked by the Pathfinder, lower left, and the adjoining museum building at The Space and Rocket Center.

# 1988 PROGRAMS

## 1988 SPACE CAMP/SPACE ACADEMY INFORMATION

Program	Grade	Length	Tuition	Special Notes
SPACE CLUB	3-8	—	\$20 annual	Subscription
SPACE CAMP	4-7	5 days	\$ 525	\$100 discount in spring
SPACE ACADEMY Level I	8-10	5 days	\$ 575	Open to 7th-grade Camp graduates \$100 discount in spring
SPACE ACADEMY Level II	11-12 College Fres.	10 days	\$ 775	Open to 10th-grade graduates of Level I
SPACE ACADEMY Adult - Level I		3 days	\$ 450	Programs in the fall start
Adult - Level II		3 days	\$ 450	Fridays and Sundays

## U.S. SPACE CAMP SPACE ACADEMY

### CO-SPONSORS

The U.S. SPACE CAMP gratefully appreciates the direct support and cooperation of the NASA-Marshall Space Flight Center in its programs.



The following corporations are principal donors to U.S. SPACE CAMP, U.S. SPACE ACADEMY and The Space and Rocket Center. The Center acknowledges the significant support of its educational activities by these and other contributors.

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