



# FLORIDA SPACE GRANT CONSORTIUM

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**FY 2007-08 Fact Sheet**



## PARTICIPANTS

- 22 Affiliates Statewide comprising**
- ◆ 17 Universities & Colleges
- ◆ Astronaut Memorial Foundation
- ◆ Space Florida
- ◆ Higher Education Consortium for Math & Sciences
- ◆ Kennedy Space Center
- ◆ Orlando Science Center

## ACCOMPLISHMENTS

### Research

- ◆ **Joint Grant Program**  
*Spaceport Technology*  
*Space-Based Research & Payload Development*
- ◆ **\$ 386K in funded proposals**

### Education

- ◆ **6 college and university programs**  
*Graduate Fellowships*  
*Kennedy Space Center Internships*  
*Florida University Satellite Design Competition*  
*Hybrid Rocket Competition*  
*Undergraduate Academy for students*  
*NASA Academy*
- ◆ **3 precollege programs**  
*Space Education & Training Program*  
*Teacher workshops*  
*Aerospace Education Program*  
*Academy for middle school teachers and students*

- ◆ **\$ 337K in funded proposals**

### Informal Education

- ◆ **3 Programs**  
*Radio JOVE*  
*UFRO Online*  
*Exploration Station*

## STUDENT AWARDS

- ◆ **16 Undergraduate awards**
- ◆ **6 Graduate Fellowships**

## SOURCES OF FUNDS

\$ 1019K in NASA funds  
\$ 454K in Matching Funds

## KSC- Educator Resource Center

At the Kennedy Space Center Educator Resource Center (ERC), managed and operated by FSGC, educators can access a wide variety of NASA resources to develop their own educational programs. The facilities and staff at the center assist teachers in gathering ideas, doing research, and duplicating selections from an outstanding collection of audiovisual and printed materials.



At the Exploration Station students participate in a variety of hands-on activities utilizing aerospace hardware that compliments the teaching of rocketry, spaceflight and exploration.

- Educator Resource Center and Exploration Station (NEET) reach a significant number of educators and public.

- In 2007 there were 16,174 visitors: 8,248 teachers, 18,328 students and 8,598 general public .

**Florida Space Grant Consortium**

**Mail Stop : FSGC, Bldg. M6-306 Room # 7010**

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## Workforce Development Projects

### I. UNDERGRADUATE ACADEMY

- ◆ Joint program between Florida Space Grant Consortium and Space Florida
- ◆ 1 week internship for undergraduate students in Florida
- ◆ The primary aim is to encourage Florida's students to fulfill the nation's dream of returning to the Moon, then on to Mars and Beyond
- ◆ Combine all their skills and expertise in Life Sciences, Physics, computer know-how and Engineering to face the difficulties of space and science challenges



#### The students:

- Attended lectures and listened to the world's leading scientists in a range of science disciplines.
- Designed and constructed a meteorological balloon instrument payload and launch from Cape Canaveral
  - ◆ Assembled the payload for a Rocket Launch
  - ◆ Participated in a Panel discussion with NASA and Industry

Space Academy students were escorted to the Assembly Refurbishing Facility (ARF), where the Solid Rocket Boosters are prepared for flight. Center of photo shows former Undergraduate Academy graduate - Heidi Glaudel (ERAU graduate), who last year did the same tour with the Academy and now works on the Boosters with USA

### II. Rocket Competition

The objective of the competition is to design and build a hybrid powered rocket. The competition has two categories: the first category is to reach the maximum altitude and the second is to fly the rocket closest to 2000 feet in altitude.

- Sponsored by the Florida Space Grant Consortium, Space Florida and the Northeast Florida Association of Rocketry

- 6 teams from 3 universities
- 63 undergraduate students

### III. FUNSAT

The FUNSAT (Florida University SATellite) is a pico-satellite with a mass of 1 Kg and the size of 10 x 10 x 10 cm<sup>3</sup>. 5 universities currently participating in the competition.

ERAU

-Completed Flight Model and ready to launch UF

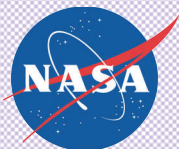
-AIAA Small Satellite Student Paper Competition - 4th Place (\$3,000)

-Boost students' interest in space engineering - Class & Satellite Team

-Development of a de-orbiting technology UCF

- Interdisciplinary Sr. Design Class: EE, CE, ME, and AE

-Air Force Nano-satellite program



*To understand and protect our home planet,  
To explore the universe and search for life,  
To inspire the next generation of explorers ..... as only NASA can*