



FLORIDA SPACE GRANT CONSORTIUM

Director : Dr. Jaydeep Mukherjee
Associate Director: Dr. Penny Haskins
FY 2006-07 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

STUDENT AWARDS

- ◆ 12 Undergraduate awards
- ◆ 5 Graduate Fellowships

SOURCES OF FUNDS

\$ 1019K in NASA funds
\$ 450K in Matching Funds

ACCOMPLISHMENTS

Research

- ◆ **Joint Grant Program**
Spaceport Technology
Space-Based Research & Payload Development
- ◆ **\$ 388K in funded proposals**

Education

- ◆ **6 college and university programs**
Graduate Fellowships
Undergraduate Summer Program
Florida University Satellite Design Competition
Hybrid Rocket Competition
Florida Space Academy
NASA Academy
- ◆ **3 precollege programs**
Space Education & Training Program
Teacher workshops
Aerospace Education Program

- ◆ **\$ 248K in funded proposals**

Informal Education

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

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.

- 2006 visitors: 6600 teachers, 20400 students and 6700 public.

Florida Space Grant Consortium

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Workforce Development Projects

I. SPACE 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

Congressman Dave Weldon “ I admire your ability to bring the resources of the Space Coast together for this innovative learning experience....I would like to encourage you and FSA to consider expanding this operation...I believe there is a real marketing opportunity here”

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
- 48 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 cm³.

ERAU

–Completed Flight Model and ready to launch UF

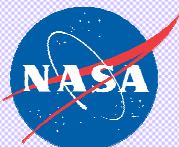
–AIAA Small Satellite Student Paper Competition - 4th Place (\$3,000)

–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*

THE NASA MISSION