



# FLORIDA SPACE GRANT CONSORTIUM

## Director : Dr. Samuel Durrance, Astronaut

### FY 2002 Fact Sheet

#### PARTICIPANTS

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

#### ACCOMPLISHMENTS

##### Research

- ◆ Joint Grant Program
  - Spaceport Technology*
  - Space-Based Research & Payload Development*
  - Space Research Infrastructure Program*
- ◆ \$ 557K in funded proposals

##### Education

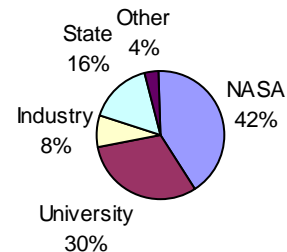
- ◆ 3 college and university programs
  - Graduate Fellowships*
  - Undergraduate Summer Program*
  - MarsPort Engineering Design Student Competition*
- ◆ 4 precollege programs
  - Space Education & Training Program*
  - Space Explorers*
  - Protein Crystals in Space*
  - Aerospace Education Program*
- ◆ \$ 375K in funded proposals
- ◆ Participation of 247 teachers
- ◆ Benefiting 8150 school students

##### Public Outreach

- ◆ 4 Programs
  - Museum Outreach*
  - Astronaut Encounter*
  - Radio JOVE*
  - Stardate*
- ◆ ~ 1000 participants

#### SOURCES OF FUNDS

\$ 475K in NASA funds  
\$ 687K in Matching Funds



■ NASA ■ University ■ Industry ■ State ■ Other

#### STUDENT AWARDS

- ◆ 12 Undergraduate awards
- ◆ 8 Graduate Fellowships

### QUOTES

- ◆ "Space education in our schools is an exciting tool to stimulate Florida's youth to learn more about science. The NASA grant will allow us to continue our efforts and help kids broaden their horizons beyond planet Earth." - *Florida Lt. Governor Frank Brogan commenting on the NASA Workforce Development award to FSGC.*
- ◆ "I'm glad my teacher got this Space Grant award so we can make some space stuff like rockets. We can learn how satellites, rockets and the Space Shuttle works and have fun at the same time. I want to go the Kennedy Space Center and see the real stuff that my teacher and mentors (from NASA) told us about." - *Johnny and Anthony, 5th grade students at Endeavour Elementary Magnet School talking about the Aerospace Educators award to 5th grade teacher, Nicola Isaac*

Florida Space Grant Consortium

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

Kennedy Space Center, FL 32899

Ph : (321) 452-4301 / Fax : (321) 449-0739 / E-Mail : [fsgc@mail.ucf.edu](mailto:fsgc@mail.ucf.edu)

WWW Address: <http://fsgc.engr.ucf.edu>

# Some success stories

## **F**LORIDA SPACE RESEARCH & EDUCATION GRANT PROGRAM

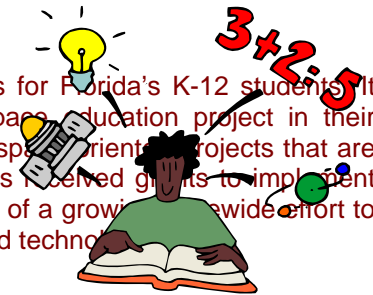
The purpose of this program, administered by the Florida Space Grant Consortium, is to support the expansion and diversification of Florida's space industry by increasing statewide academic involvement in space research, engineering, education and training programs that are consistent with the state's space industry priorities. This annual program, introduced in the Fall of 2000, combines state, federal and other funds for competitive award to projects sponsored within, or conducted in partnership with, the state's public and private academic institutions.

- ◆ The program is funded by : *NASA (through the Florida Space Grant Consortium)*  
*State of Florida (through Florida Space Research Institute) &*  
*University of Central Florida*
- ◆ Under the categories of *Spaceport Technology Development,*  
*Space-Based Research & Payload Development &*  
*Space Education & Training*
- ◆ 207 proposals received
- ◆ 46 proposals funded (\$1,101,615)



## **A**EROSPACE EDUCATION PROGRAM

The Program is designed to provide aerospace education experiences for Florida's K-12 students. It provides supplementary funds for a teacher to implement an aerospace education project in their classroom. Educators statewide were invited by FSGC to propose aerospace-oriented projects that are aligned with Florida's Sunshine State Standards. In 2002, nineteen Florida teachers received grants to implement aerospace-oriented education projects in their elementary school classrooms as part of a growing statewide effort to use aerospace concepts for teaching reading, science, mathematics, engineering, and technology.



## **M**ARSPORE ENGINEERING DESIGN STUDENT COMPETITION

Florida Space Grant Consortium (FSGC), Texas Space Grant Consortium (TSGC), Florida Space Research Institute (FSRI) and Kennedy Space Center jointly sponsored the 2002 NASA MarsPort Engineering Design Student Competition.

In the second year of this two-year Pilot Program, six student teams from universities throughout the United States conducted engineering trade studies to design optimal configurations for a MarsPort operation on the surface of Mars. The six teams selected for this year's competition were from the University of Central Florida, St. Louis University, Cornell University, Olin College of Engineering, and the University of Colorado. (<http://www.tsgc.utexas.edu/marsport/>)



The 2002 MarsPort Engineering Design Student Conference was held at the Kennedy Space Center visitor complex on May 14 & 15, 2002. About 55 students and faculty advisors from the 6 universities attended the conference along with invited guests from NASA Kennedy Space Center, Dynamac Corporation and universities. The overall winner was the team from the University of Colorado at Boulder and the runner-up was the team from Saint Louis University. FW Olin College of Engineering was given a special award for their outreach activities. (<http://fsgc.engr.ucf.edu/programs/marsport/2002/marsport-2002.htm>)