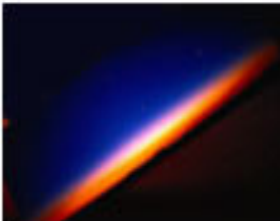




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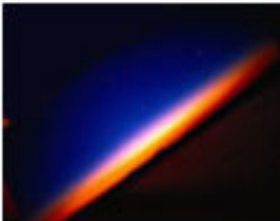


• **Indiana Fall Space Day**
Ann Broughton
<http://www.fallspaceday.com>



Fall Space Day Outline

- Free Educational Outreach Program for students in grades 3-8
- Founded in 1996 at Purdue University by the student organization - Students for the Exploration and Development of Space (SEDS)
- Provides an opportunity to learn about Science, Technology, Engineering and Mathematics by participating in age-appropriate hands-on activities throughout the day



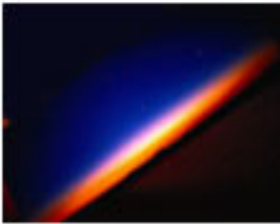
Attendance Details

- Now in its 11th year, Fall Space Day has grown to accommodate 400 students in grades 3-8
- For the 2005 event, elementary students from 91 schools in three states attended. Indiana, Ohio and Illinois
- The 2005 event was run by over 150 Purdue University students from 22 majors
- From 1996 to 2005
 - 893 university students have been involved
 - 3,005 grade school children have participated



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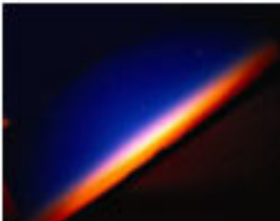
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Purdue Astronaut Alumni

- The highlight of Purdue Fall Space Day is the visit by a Purdue alumni astronaut.
- Past astronauts include:
John Blaha, Mark Brown, John Casper, Guy Gardner, Greg Harbaugh, Loren Shriver, Gary Payton, Janice Voss, Don Williams.

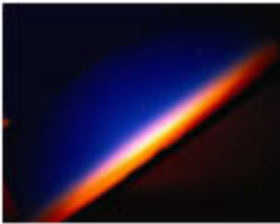




Astronaut Presentation

- The VIP Astronaut gives a 1 hour presentation to the grade school students, parents, teachers, university students, faculty and staff
- Col Mark N. Brown was the VIP astronaut for 2005

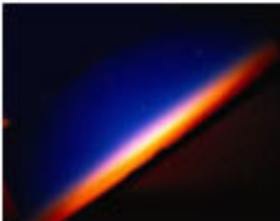




Activities

- Led by an Activity Head, each child takes part in 3 age-appropriate hands-on activities
- Each Activity
 - Is completed within 45 minutes
 - Relates to science, technology, engineering and math
 - Involves either teamwork or individual participation
 - Contains an element of fun for both younger and older students





Groups

- The elementary students are split into three age ranges:
 - Grades 3-4
 - Grades 5-6
 - Grades 7-8
- Each age range further split into groups of no more than 20 children
- Each Group has two Leaders to safely chaperone them between activities
- Groups are named after a astronaut or other space theme





Impact on Grade School Students

- **Inspire children to:**
 - **Learn about science, technology, engineering & math using a space theme**
 - **Think of Engineering or Aerospace as a potential career opportunity**
 - **Become more familiar with the university for higher education**
- **Participate in three age-appropriate activity sessions**
- **Opportunity to hear a presentation by an astronaut**

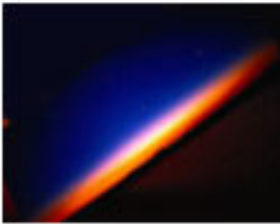




Impact on University Students

- **Service Learning** - Encourages university students to give back to the community
- **Role models** - young children and their parents see the university students in positions of responsibility
- **Lessons learned** - University students learn:
 - Teaching
 - Leadership
 - Problem solving
 - Teamwork
 - Inter-disciplinary cooperation

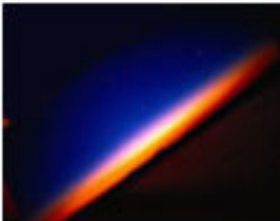




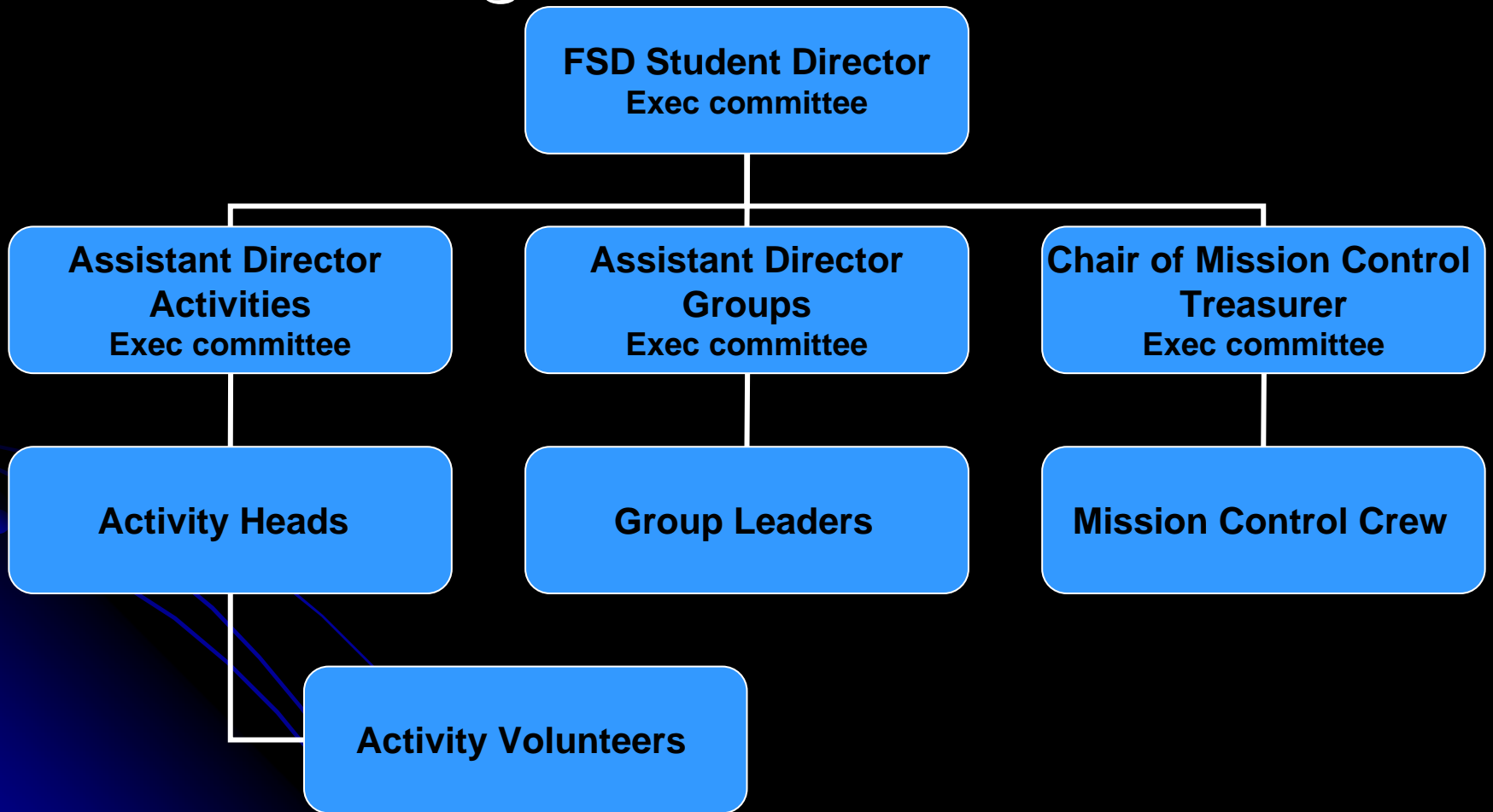
Sponsorship

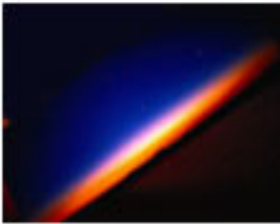
- Sponsorship is vital to the production of PFSD
- Both local and national companies support the event
- Sponsorship create closer ties between businesses and the university
- Sponsors' logos are displayed on the t-shirt used by the PFSD team and in the school students booklets





Organization Chart

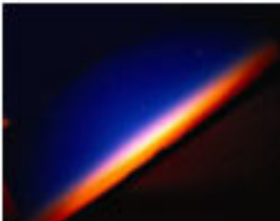




FSD Jobs

- Director
- Assistant Director
- Treasurer
- Mission Control
- Activity Heads
- Group Leaders
- General activity volunteers
- Food liaison
- Booklets and Bags chair
- Publicity
- Photographers
- Web master

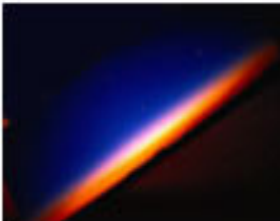




PFSD T-Shirts & Lanyards



- Identifies the PFSD volunteers to the children and parents
- Provides a sense of unity and team spirit for the university students
- Shows the sponsors logo and the PFSD logo
- Lanyards have mission patch, name tag & agenda information



Mission Control

- Mission Control is an information booth staffed throughout the day
- It keeps information on the event, location of the student groups and their activities.
- Used as a meeting point for parents and children
- Provides local information

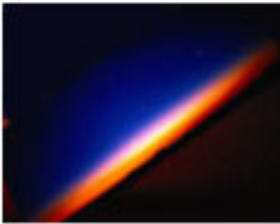




Closing and Group Photos

- All participants gather back in the main hall for closing and thanks
- Group photos with VIP are taken
- Photos are posted on web page



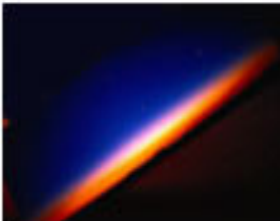


After Event Party



- After cleanup and tear down, the after event party allows the university students to say thank you and visit with the VIP





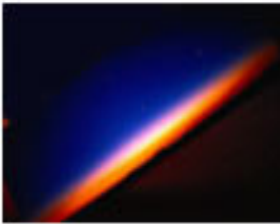
The Future

- Purdue Fall Space Day (PFSD) has gained recognition across the state of Indiana as an exceptional space-related educational outreach event
- This high-profile event reflects well on the host university and the event's sponsors and receives significant media coverage.
- Due to its success, PFSD has inspired other universities to start their own Space Days. In the 2006-2007 year, the University of Evansville and Ball State University will hold their first annual Space Days, both modeled after PFSD.
- Additionally, PFSD has been contacted by the University of Texas in Austin and the University of Illinois for information and assistance in planning their first Space Day event



Future Employment

- **ELV Launch Services - Mission Analysis, NASA, JFK Space Center**
- **Flight School in Phoenix with aspirations to become an airline pilot.**
- **Boeing - NASA Systems, ISS Systems Integration**
- **Mission Systems - Northrop Grumman Space Technology**
- **Mechanical Systems - Stennis Space Center**
- **Structural Dynamics Engineer - Northrop Grumman Space Technology**
- **Grad Student - Purdue University**
- **Grad Student - MIT**
- **Grad Student - Stanford University and many more**



Quotes

“Thank you for a wonderful program, my son Nick had a great day. It has opened his mind and he is now thinking of designing airplanes and coming to Purdue to learn how” -Jennifer

“I definitely want to go to Purdue” Luke 3rd grade

“My whole family was impressed with the leadership of the college students. Everything was well organized and overall fun – Thank you – Jacob”

“The volunteers were excellent – Their enthusiasm came out in everything I saw them do”

“The student volunteers were very helpful and enthusiastic –what great role models for the younger kids and what great service to the community” Gale

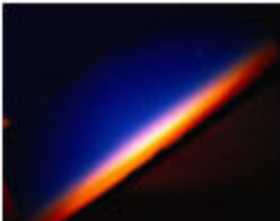
“ My daughter Kathryn had a GREAT time. Please pass on my thanks to all the students involved, I graduated in 1993 and wish we had started Fall Space Day sooner so that I could have been involved in it” – Tony BSAAE ‘ 93

Thank you for having Fall Space Day. I really liked the Straw Rockets and learning about space” Mary 5th grade

“If I don’t make it to the NBA, I want to be an astronaut” Matthew 6th grade



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Any Questions?

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