NASA/NSTA Web Seminar:
Successful Strategies for Involving Parents in Education

Tuesday, November 20, 2007
6:30 p.m. - 8:00 p.m. Eastern time
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Involving Parents in Education

• NASA Education & NASA Education Resources
• Importance of parent involvement in the school
• How are parents involved today in schools?
• What hampers parent involvement?
• What are some examples of success in PI?
• What is NASA’s take on PI?
• NASA Missions & Education opportunities
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NASA Homepage: http://www.nasa.gov
Have you been there?

A. YES (√)
B. NO (X)
Welcome to NASA's page for educators. NASA is committed to inspiring the next generation of explorers and innovators. We are dedicated to offering educators essential NASA-related educational resources and information.
NASA Express Email
Have you Registered?

A. YES (√)
B. NO (X)
Sign up to receive more information:
NASA EXPRESS MAIL
www.nasa.gov/education/express
Example of a NASA Express Email sent last week:

NASA Announces Two New Contests for Students.htm

For complete details, visit:
http://aero.larc.nasa.gov/competitions.htm
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Importance of parent involvement in the schools is being addressed by many organizations.

National Coalition for Parent Involvement in Education

http://ncpie.org/AboutNCPIE/

North Central Regional Education Laboratory

http://www.ncrel.org/sdrs/areas/issues/envrmnt/famncomm/pa100.htm
According to NCPIE

http://ncpie.org/DevelopingPartnerships

“A comprehensive and meaningful partnership meets the needs of the families, schools, and communities involved, and incorporates each of the concepts on the next slide in ways that are unique to the school community.”
• Communication is the foundation of effective partnerships.
• Schools can reach out through community groups.
• Families can support schools and children’s learning in important ways.
• Schools should create an environment that welcomes participation.
• Families model and support children’s education at home.
• Educators can guide families in parent-child activities.
• Families should be encouraged to develop their own knowledge and skills.
• Schools can provide cultural education for staff and parents.
• Leadership training should be provided for educators, staff, and families interested in participating in school governance.
• Parents are advocates
• Schools should collaborate with community organizations.
• http://ncpie.org/DevelopingPartnerships/
• Communication is the foundation of effective partnerships

“Parents (or other responsible family members) and schools should communicate regularly and clearly about information important to student success. Schools should inform families about standards and how they relate to the curriculum, learning objectives, methods of assessment, school programs, discipline codes, and student progress…” (Continued on next slide)
• Communication is the foundation of effective partnerships

“Sharing information can be accomplished through the usual means of newsletters, handbooks, parent-teacher conferences, open houses, as well as home visits, homework "hot lines", the Internet, e-mail, and voice mail. Translations should be made available, if needed, to ensure non-English speaking parents are fully informed. Personal contact, whether by telephone or in person, is the best way to promote two-way communication.”
To what degree (%) are the statements below working in your school community regarding PI?

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How are parents involved in your school community?

1.

2.

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What hampers parent involvement in your school community?

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What are some examples of success in PI in your school community?

1. 

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Two Examples of NASA Successes

• NASA Project - One way the school is drawing out parents is through frequent star parties for students and their families to view stars and planets through telescopes. "The kids love looking at the stars, and the parents do, too, because a lot of them have never seen them," Meals said.

• NES - Through the NASA Explorer Schools project, NASA enters partnerships with selected schools to bring engaging science, technology, engineering and mathematics learning to educators, students and families. Competitive applications and selection of the NES teams occur each spring. With this project, NASA continues its tradition of investing in the nation's education. NES is directly tied to the agency's major education goal of attracting and retaining students in STEM disciplines.
Three-year partnership between NASA and grades 4 - 9 school teams from diverse communities across the country, focusing on underserved populations.

In April 07 NES selected 25 schools for the 2007 cohort, bringing total NES to 200

Total students served at NES schools in FY 2006: 137,388

Total teachers served at NES schools in FY 2006: 6,813

Percent of Schools Considered High Minority: 74%

Percent of Schools Considered High Poverty: 86%
Putting the Pieces Together

- Immerse high minority and high poverty urban and rural schools in NASA mission content
- Provide schools access to NASA content, resources, people and products

- Co-develop technology tools, professional development and student opportunities with 10 NASA Centers, mission directorates, Informal Education, Elementary and Secondary Projects and external partners (Oklahoma State University, National Science Teacher’s Association)
- Aerospace Education Specialists provide professional development and alignment to state standards
- SEMAA provides Family Involvement best practices
- Flight Projects and Educator Astronaut provide mission content and opportunity
NES Program Outcomes

• Increase student **interest and participation** in mathematics, science, technology and geography.

• Increase student **knowledge about careers** in mathematics, science, engineering and technology.

• Increase student **ability to apply** mathematics, science, technology and geography concepts and skills in meaningful ways.

• Increase the **active participation and professional growth** of educators in science.

• Increase the **academic assistance for and technology use** by educators in schools with high populations of underserved students.

• Increase **family involvement** in children’s learning.
Family Involvement: Ideas

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## Family Involvement: Local Barriers

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Let’s Pause for Two Questions
NASA Science

NASA Homepage:

http://www.nasa.gov

NASA Education:

http://www.education.nasa.gov/home/index.html

NASA Science:

http://science.hq.nasa.gov/
How Far Away Are You?

http://maps.google.com/maps

Jim - Reno NV
2,232 mi
32 hours
ISS Time
7.44 Minutes

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Educator Astronauts
Mission Specialist-Educators

Barbara Morgan

Joe Acaba  Ricky Arnold  Dottie Metcalf-Lindenburger

http://www.jsc.nasa.gov/Bios/
Barbara Morgan
Astronaut – Mission Specialist

Born November 28, 1951, in Fresno, California.

B.A., Human Biology, with distinction, Stanford University, 1973; Teaching Credential, College of Notre Dame, Belmont, California, 1974.

Teacher – 1973 – present

Teacher From Space – Back-up for Christa McAuliffe staying active until selected as Astronaut 1998.

STS-118 (August 8-21, 2007) was the 119th space shuttle flight, the 22nd flight to the station, and the 20th flight for Endeavour.
Igniting the Flame of Knowledge

Presenter: James.B.Fitzgerald@nasa.gov
Let’s Pause for Two Questions
ARES Constellation
Thank you!

James B. Fitzgerald (JIM)
Aerospace Education Specialist

James.B.Fitzgerald@nasa.gov

NASA Aerospace Education Services Project (AESP)
NASA Glenn Research Center (GRC)

Cleveland, OH 44135 (CLE)

216 433 5104 Fax: 216 433 5924
Thank You

NASA Explorer Schools

http://explorerschools.nasa.gov
Welcome to The NSTA Learning Center

Get the Help, When You Need It

NSTA developed the Learning Center as a professional development website to help address your classroom needs and busy schedule. Using this site, you can gain access to more than 1,200 different resources and opportunities, such as:

- Over 1,000 NSTA Journal articles (230 of them available FREE of charge)—many containing high-quality lesson plans.
- More than 35 FREE Science Objects (one- to two-hour interactive simulation-based learning experiences).
- More than 125 e-chapters from selected books and series (40 chapters FREE of charge).
- FREE weekly live Web Seminars where you can interact with experts from NASA, NOAA, FDA, NSF, and the NSDL Community.
- More than 20 SciGuides (A resource to help teachers integrate the internet into the classroom).

PLUS: NSTA has also developed a suite of practical tools called My Library, My Notepad, and My Transcript. Use these tools to organize, personalize, and document your professional growth within the Learning Center.

Learn More.

http://learningcenter.nsta.org
National Science Teachers Association
Gerry Wheeler, Executive Director
Frank Owens, Associate Executive Director
Conferences and Programs
Al Byers, Assistant Executive Director e-Learning

NSTA Web Seminars
Flavio Mendez, Director
Jeff Layman, Technical Coordinator

LIVE INTERACTIVE LEARNING @ YOUR DESKTOP