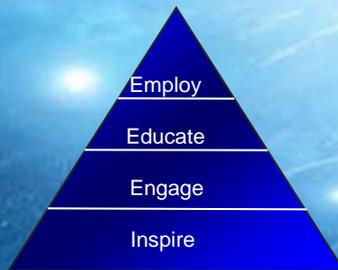




# NASA and STEM Education

CAISE Summit  
March 5, 2010



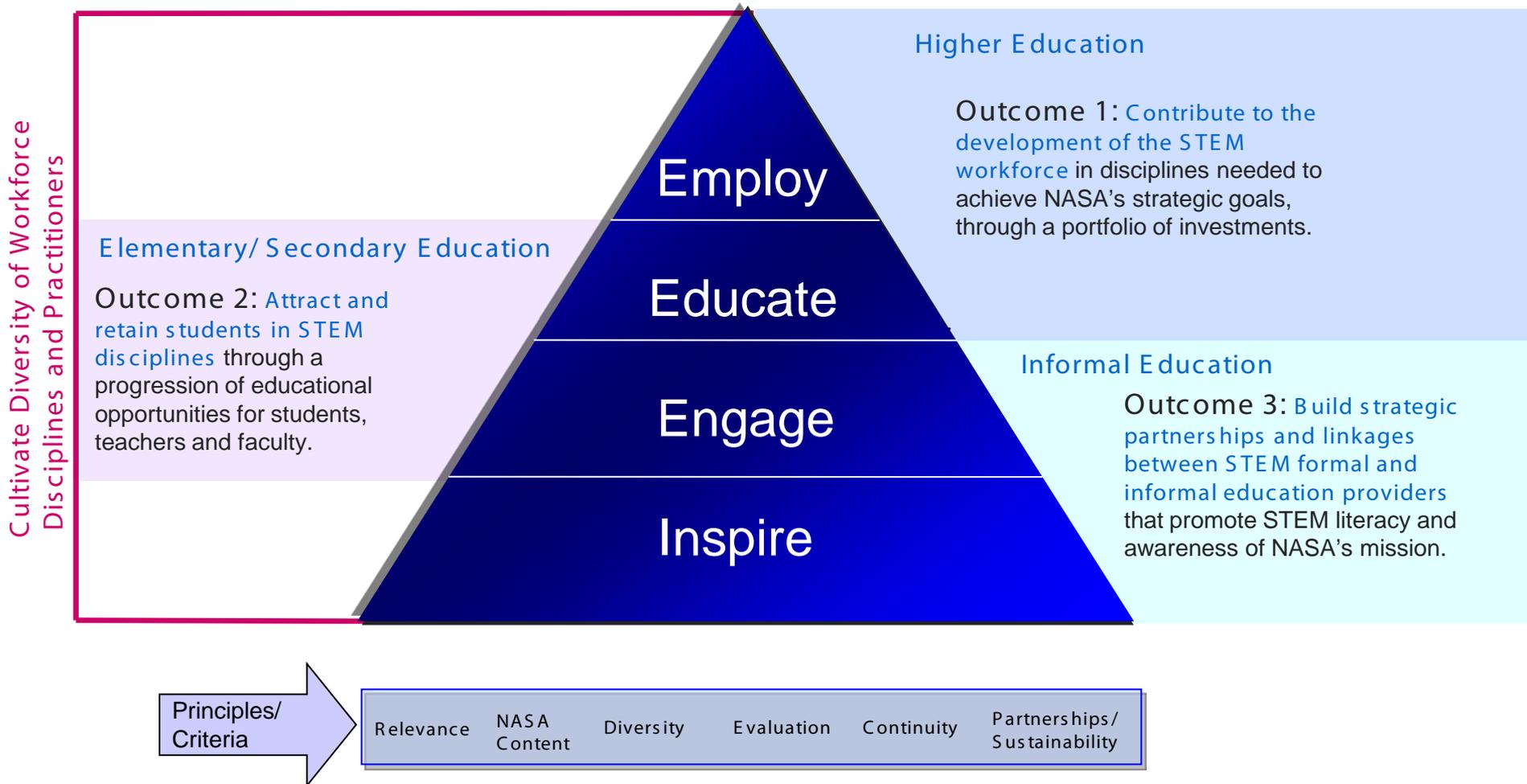
**Dr. Joyce L. Winterton**  
Associate Administrator for Education

# First Steps to a STEM Career



# NASA Education Overview

## Strategic Framework



\* Science, Technology, Engineering and Mathematics (STEM)

# Dottie Metcalf-Lindenburger: Educator Astronaut



# NASA Education Robotics Web Site

[www.nasa.gov/audience/foreducators/robotics](http://www.nasa.gov/audience/foreducators/robotics)



HOME

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MISSIONS

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Search

NASA Home > Education > For Educators > Robotics > Home

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## Robotics

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Lesson Plans

Career Corner

Image Gallery

Opportunities

Multimedia

Related Sites

## Teaching From Space



Learn more about how you and your students can get involved in real space missions.

> View

## Office of Education



Visit the NASA Education Web site. You'll discover a wealth of information including a list of

## Robotics



### Overview

Welcome to the NASA Education Robotics Web site.

Innovation, creativity, problem solving -- the world of robotics at NASA is all of these things. Spend some time on this site to see if robotics might be in your future.

Things you can do on this site:

- Answer the question: What Is Robotics?
- Practice your programming skills with the interactive robotic activity.
- Watch and download video and multimedia features about robotics.
- Follow a timeline tracing the history of robotics.
- Check out lesson plans for your classroom.
- Stay up-to-date with information about NASA-supported robotics competitions.
- Visit the Robotics Image Gallery.
- Explore other worlds with NASA through robotic spacecraft discoveries.
- Read about scientists and engineers who design and test robots.
- Browse NASA Web sites for information about robotics.

### Welcome Educators



Dottie Metcalf-Lindenburger



### Welcome Students

# Informal Education

[www.nasa.gov/audience/foreducators/informal](http://www.nasa.gov/audience/foreducators/informal)



HOME

NEWS

MISSIONS

MULTIMEDIA

ABOUT NASA

CONNECT

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Search

[NASA Home](#) > [Education](#) > [For Educators](#) > [Informal Education](#)

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[About NASA Education](#)

[For Educators](#)

For Educators

[Grades K-4](#)

[Grades 5-8](#)

[Grades 9-12](#)

[Higher Education](#)

[Informal Education](#)

### Informal Education

[Read About It](#)

[Youth & Community](#)

[Education Programs](#)

[A-Z Index](#)

[Find Teaching Materials](#)

[Education TV Schedule](#)

[Current Opportunities](#)

[For Students](#)

[NASA Kids' Club](#)

## NASA History

## Read About It

### NASA Supports the Summer of Innovation



02.09.10

NASA has launched an initiative to use its out-of-this-world missions and technology programs to boost summer learning, particularly for underrepresented students across the nation.

[Read More](#)

### Top Stars Contest

### Field Trip to the Moon Informal Educator Guide

[View Archive](#)

## Museums and Planetariums

## Youth and Community Activities

## Visitor Centers and NASA Exhibits



**NASA Visitor Centers**

The general public is welcome to visit and tour many NASA installations.



**Bringing NASA to Your Community**

NASA exhibits provide an opportunity for people to interact with NASA in a tangible way.

## Digital Learning Network



**Digital Learning Network**

The goal of the

# Digital Learning Network

<http://dln.nasa.gov/dln>



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## NASA Digital Learning Network™

*DLN Sites: Ames, Dryden, Glenn, Goddard, JPL, Johnson, Kennedy, Langley, Marshall, Stennis*

Videoconferencing  
Webcasting

+ NASA Home  
+ NASA Education Home

DIGITAL LEARNING  
NETWORK™ (DLN)

+ DLN HOME

- ABOUT THE DLN

+ EVENT CATALOG

+ EVENT GUIDELINES

+ DLInfo CHANNEL

+ TECHNICAL FAQ

+ 5E TEACHING MODEL

+ TOOLS & PLUGINS

### Welcome to the Digital Learning Network

Experience out-of-this-world interactive learning with NASA's Digital Learning Network™!

Free, interactive programs allow you and your students to learn more about our home planet and the universe beyond through video-conferencing and Web casts. Students of all ages can participate in live events featuring NASA experts and education specialists. Take a look at our catalog of events and Web cast announcements to find lessons, activities, and presentations that meet your instructional objectives.

### Announcements

**Learn more about NASA Careers!**

**February 18, 2010 - 1:00-2:00 PM EST** - Learn about the fascinating world of careers at NASA Dryden Flight Research Center! Hosted by DLN Coordinator, David Alexander, a career specialist will join us in the DFRC DLN studio to answer questions about careers at NASA. [Click here to join the webcast.](#)

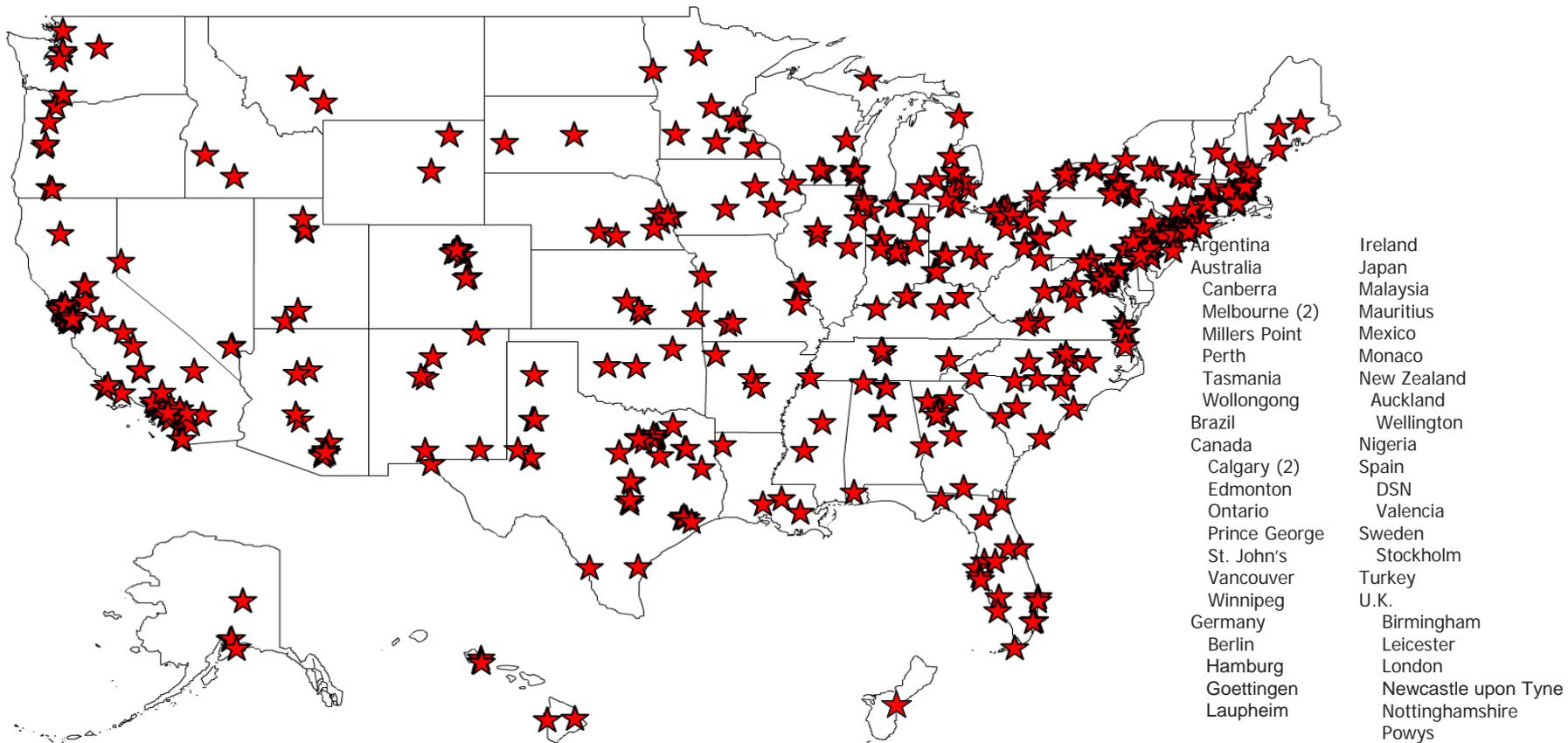
**Watch as NASA Explorer Schools interact with the astronauts!**



# NASA Museum Alliance

<http://informal.jpl.nasa.gov/museum>

Over 700 professionals at more than 400 U.S. and 40 international organizations are currently partners in the Museum Alliance, presenting NASA information to both public and educational audiences. Conceived/managed by Jet Propulsion Laboratory; Anita Sohus is

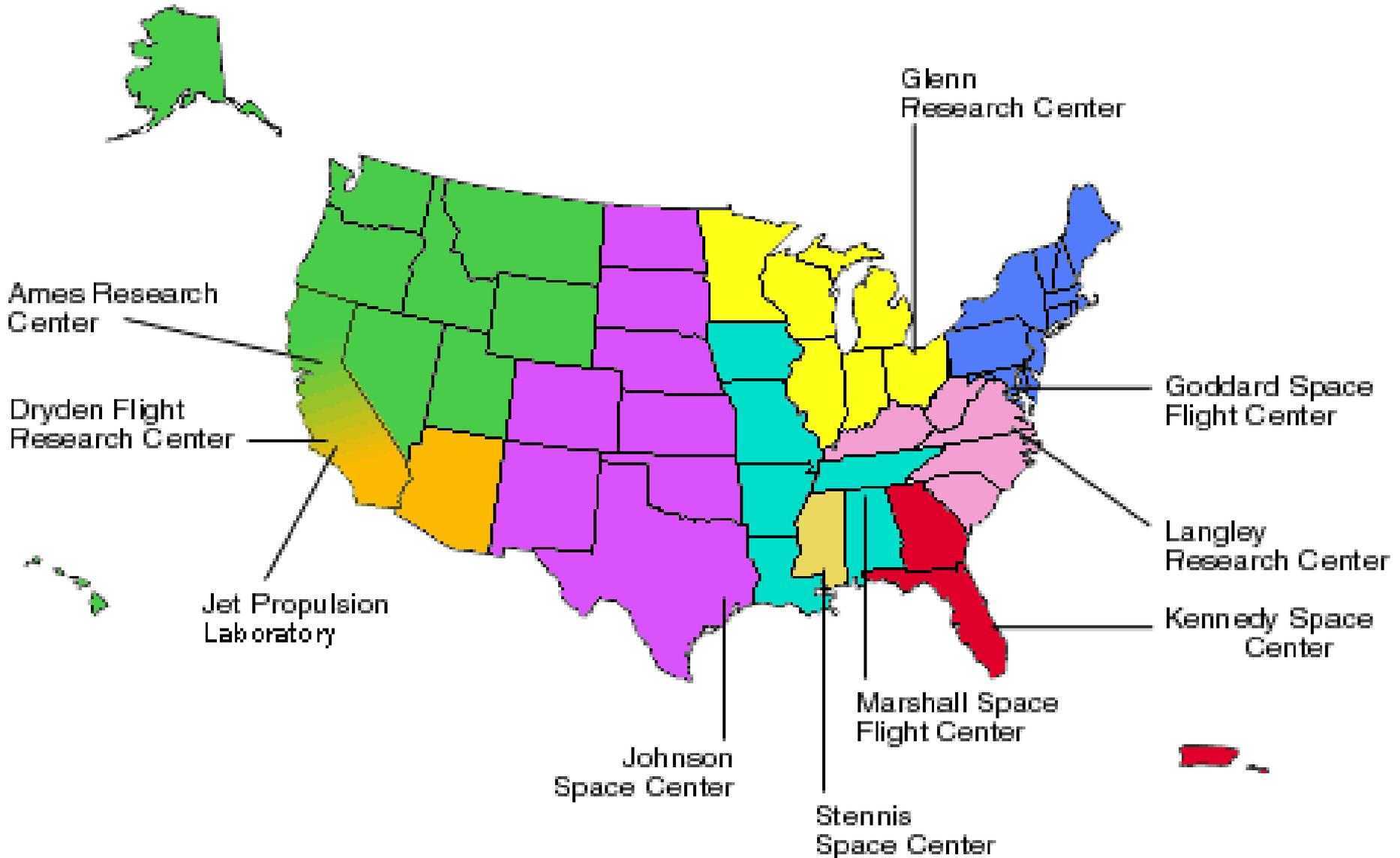


A vibrant, multi-colored nebula, likely the Helix or Ring Nebula, is shown in a 3D perspective. The nebula's structure is complex, with bright, glowing filaments and a central region that appears to be a dense, glowing core. The colors range from deep reds and oranges to bright yellows and whites, with some blue and green hues. The background is a dark, star-filled space. The text "Hubble 3D IMAX Movie" and "Premiere: March 9, 2010" is overlaid in yellow at the top center. A small, stylized logo is visible in the top left corner.

**Hubble 3D IMAX Movie**  
**Premiere: March 9, 2010**

# Your Regional NASA Center

[www.nasa.gov/about/visiting](http://www.nasa.gov/about/visiting)



# Opportunities to Engage NASA Education

- NASA's Informal STEM Education provides access to:
  - NASA staff, research, technology, information and facilities
  - Professional development opportunities for informal science educators
  - Collaboration between the informal and formal education communities.
- Opportunities are available at every NASA Center. Find the informal education leads at the various NASA Centers at NASA.gov or use the direct link: [www.nasa.gov/offices/education/contacts/informal.html](http://www.nasa.gov/offices/education/contacts/informal.html)
- To track NASA-related education events, including competitive grant solicitations, subscribe to NASA's Express Education e-mail service: [www.nasa.gov/audience/foreducators/Express\\_Landing.html](http://www.nasa.gov/audience/foreducators/Express_Landing.html)