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## Journey through the Universe

### Dates for Journey 2012 - March 1-9, 2012

Information listed below is provided as a reference for 2011. Details for 2012 will be announced later this year.

Download the [flyer](#) for the 2012 Journey through the Universe.



Journey through the Universe is a national science education initiative that engages *entire* communities—students, teachers, families, and the public—using education programs in the Earth and space sciences and space exploration to inspire and educate. The initiative engages communities in sustained science, math, and technology education, and is a celebration of exploration and the joys of learning.

What the human race knows about our world and the greater Universe is used to inspire *the next generation* of scientists and engineers through interactions with *the current generation*; give teachers the tools and training to conduct powerful lessons in the classroom that are deeply relevant to the science curriculum; and provide venues for family learning where parents and their children learn together. [More ...](#)

#### Journey Astronomy & Engineering Educators Workshop:

Thursday, September 30, 2010: 10am - 12:30pm in Gemini Observatory Main Conference Room

#### February 10 - 18, 2011

##### Journey Week: February 10 - 18, 2011

- Thursday, February 10, 2011:
  - Master Teacher Training: 8am - 2pm at `Imiloa Astronomy Education Center
- Friday, February 11, 2011:
  - Astronomer Workshop: 10am - 12pm at `Imiloa Astronomy Education Center
  - Teacher Workshop: 4pm – 7:30pm at `Imiloa Astronomy Education Center
- Sunday, February 13, 2011:
  - Family Science Day: 9am - 4pm at `Imiloa Astronomy Education Center
- Tuesday, February 15, 2011:
  - Hawai'i Chambers of Commerce Appreciation Event: 5-8pm at Hilo Yacht Club
- Wednesday, February 16, 2011:
  - Family Science Night: 6pm - 9pm at University of Hawai'i at Hilo Theatre



### The Local Science Team

- Andy Adamson, Gemini Observatory
- Christian Andersen, UH Hilo Physics & Astronomy
- Colin Aspin, UH Institute for Astronomy
- Brad Bailey, NASA Lunar Science Institute
- Kenyan Beals, Hawai'i Electric and Light Company
- Dan Birchall, Subaru Telescope
- Kimberly Brenton, UH Hilo Physics & Astronomy Student
- Kevin Caruso, Bergquist Company
- Kristin Chiboucas, Gemini Observatory
- Antonio Chrysostomou, Joint Astronomy Centre
- Paul Coleman, UH Institute for Astronomy
- Richard Crowe, UH Hilo Physics & Astronomy
- Doris Daou, NASA Lunar Science Institute
- Sandra Dawson, Thirty Meter Telescope
- Brian Day, NASA Lunar Science Institute
- Jeff Donahue, Gemini Observatory
- Anil Dosaj, Submillimeter Array
- Angelic Ebberts, Gemini Observatory
- Patty Elison, Mauna Kea Visitor Center
- Kimberly Emig, UH Hilo Physics & Astronomy student
- Scott Fisher, NSF/Gemini Observatory
- Brian Force, Caltech Submillimeter Observatory
- Gary Fujihara, UH Institute for Astronomy
- Tom Geballe, Gemini Observatory
- Jesse Goldman, UH Hilo Physics & Astronomy
- Taras Golota, Subaru Telescope
- Stephen Goodsell, Gemini Observatory
- Kevin Grazier, Jet Propulsion Laboratory
- Olivier Guyon, Subaru Telescope
- John Hamilton, UH Hilo Physics & Astronomy
- Janice Harvey, Gemini Observatory
- Saeko Hayashi, Subaru Telescope
- Michael Hoenic, Gemini Observatory
- Ryoko Ishioka, Subaru Telescope
- Eric Jeschke, Subaru Telescope
- Ka'iu Kimura, 'Imiloa Astronomy Education Center
- Scot Kleinman, Gemini Observatory
- Shawn Laatsch, 'Imiloa Astronomy Education Center
- Bernhard Laurich, Hawai'i Community College
- Dan Lyons, University of Wyoming
- Frantz Martinache, Subaru Telescope
- Tony Matulonis, Gemini Observatory
- Richard McDermid, Gemini Observatory



Callie McNew, Onizuka Center Visitor Information Station  
Peter Michaud, Gemini Observatory  
Yvonne Pendleton, NASA Lunar Science Institute  
Richard Oram, Gemini Observatory  
Stephen Pompea, NOAO  
Robert Potter, Subaru Telescope  
Ramprasad Rao, Submillimeter Array  
Julie Renaud-Kim, W.M. Keck Observatory  
Kathy Roth, Gemini Observatory  
Hiroko Shinnaga, Caltech Submillimeter Observatory  
Doug Simons, Gemini Observatory  
Stephanie Slater, University of Wyoming  
Tim Slater, University of Wyoming  
Sunny Stewart, Mauna Kea Visitor Center  
Ryuji Suzuki, Subaru Telescope  
Marianne Takamiya, UH Hilo Physics & Astronomy  
Kumiko Usuda, Subaru Telescope  
Bernie Walp, Gemini Observatory  
Greg Wirth, W.M. Keck Observatory

#### Lead Local Team

Janice Harvey, Gemini Observatory  
Valerie Takata, Department of Education  
Richard Crowe, University of Hawai'i at Hilo  
Andolie Marten, Gemini Observatory  
Bess Jennings, Department of Education  
Ka'iu Kimura, Imiloa Astronomy Education Center  
Peter Michaud, Gemini Observatory  
Darrell Nekoba, Department of Education



**JOURNEY**  
through the UNIVERSE

www.gemini.edu/journey

**Astronomy Educators  
in the Classroom 2011**  
February 10 - 18, 2011

DEPARTMENT OF EDUCATION  
Hilo/  
Laupahoehoe/  
Waiakea Complex Area

For more information contact  
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 Stephen Goodsell, Gemini Observatory  
 Kevin Grasse, JPL Propulsion Laboratory  
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 Michael Hoering, Gemini Observatory  
 Ryoiko Ishihara, Subaru Telescope  
 Eric Jeschke, Subaru Telescope  
 Scott Keenan, Gemini Observatory  
 Shawn Leutsch, Hilo Astronomy Centre  
 Bernhard Leutich, Hawaii Community College  
 Dan Lyons, University of Wyoming  
 Francis Macneil, Subaru Telescope  
 Tony Matsumoto, Gemini Observatory  
 Richard McDonald, Gemini Observatory  
 Callie McInnes, UH Institute for Astronomy  
 Peter Michard, Gemini Observatory  
 Yvonne Pendleton, NASA Lunar Science Institute  
 Stephen Pompea, National Optical Astronomy Observatory  
 Robert Potter, Subaru Telescope  
 Ramonoad Rio, Submillimeter Array  
 Julia Renaud-Kim, W.M. Keck Observatory  
 Kathy Roth, Gemini Observatory  
 Hiroko Shinaga, Caltech Submillimeter Observatory  
 Doug Simon, Gemini Observatory  
 Stephanie Stiles, Center for Arts & Phys Education Reach CAPER  
 Tim Slater, University of Wyoming  
 Walter Steiger, Caltech Submillimeter Observatory  
 Ryuji Suzuki, Subaru Telescope  
 Marianne Takamiya, UH Hilo Physics & Astronomy  
 Holly Thomas, Joint Astronomy Centre  
 Kuniko Utsuda, Subaru Telescope  
 Bernie Webb, Gemini Observatory  
 Greg Wirth, W.M. Keck Observatory

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[Bios of Astronomy Educators](#)

### The Program

Developed by the [National Center for Earth and Space Science Education](#) (NCESSE), [Journey through the Universe](#) provides a window on the true nature of science and the lives of modern-day explorers, with special emphasis on not just *what* is known about our world and the universe but *how* it has come to be known. It is an approach that reveals the very personal means by which researchers ask questions of the world and empower themselves to create a pathway to an answer.

The initiative includes local programming for thousands of students and families, grade K-12 lessons and curriculum support materials, grade K-12 educator training, and ongoing support from scientists and educators nationally in both science content and pedagogy for the classroom. The communities integrate these resources into their existing science, mathematics, and technology education programming in both formal and informal science education venues. The result of this partnership is programming that reflects the strengths and capabilities of the community, and provides access to resources that would otherwise be unavailable.

Hilo, Hawai'i is currently one of 10 communities around the nation that are designated Journey through the Universe sites.

The North Hilo/Laupahoehoe/Waiakea Complex area located on the island of Hawai'i joined the Journey through the Universe program in June 2004. There is a genuine desire among the scientists and professionals associated with astronomy to participate with Hilo schools. Local educators and students desire to share in the excitement of astronomy. Journey through the Universe Week can bring the two together. The joint partnership will:

- Heighten awareness of science in classrooms.
- Help students meet the Hawai'i Content and Performance Standards and national standards.
- Provide rigor, relevance and relationships in curriculum, instruction and assessment.
- Tap into the rich resources that are the Hilo community.
- Improve teaching staff in content fields. Professional development, in-service training sessions, networking and articulation amongst educators, scientists, and community people will help improve teaching.
- Educate parents and the community in the space science enterprise.

Programming provided to each community includes a weeklong celebration of learning "Journey through the Universe Week" conducted by a National Team of researchers and engineers reflecting organizations from across the NASA communities. During Journey Week:

### Family Science Events

A family science night will be held at the `Imiloa Astronomy Center, including planetarium shows, four guest lecturers, and free access to the exhibit area.

### Classroom Visits

A National Team of researchers and engineers working on the frontier conduct Classroom Visits for 8,000 K-12 students. The researchers are gifted at communicating their passion for research and science to audience of all ages, providing students a personal interaction with explorers working on the space frontier, and providing a window on the lives of researchers and the process of science.

### Educator Workshops

Training is provided for K-12 educators on Education Modules that are mapped to the National Science Education Standards. Each Module includes an Educational Unit at three (K-4, 5-8, 9-12) or four (K-2, 3-4, 5-8, 9-12) grade levels, and includes content overviews; inquiry-based, hands-on activities; assessment rubrics; and resource listings.

[Journey 2011 Overview](#)

[National Science Teachers Association Article](#)



### Contact Us

For disability accommodation, please contact Janice Harvey at 974-2603 no later than two weeks prior to the event.

- E-Mail [Journey through the Universe Program](mailto:jharvey@gemini.edu)
- Phone Janice Harvey (808) 974-2603
- Mail Journey through the Universe, Janice Harvey, Gemini Observatory, 670 N. A'ohoku Place, Hilo, Hawai'i
- Press Inquiries Janice Harvey, Gemini Observatory, (808) 974-2603, [jharvey@gemini.edu](mailto:jharvey@gemini.edu)

### Previous Events

[Journey 2011](#)

[Journey 2010](#)

[Journey 2009](#)

[Journey 2008](#)

[Journey 2007](#)

[Journey 2006](#)