

KILOLANI



'IMILOA
Astronomy Center of Hawai'i

The Stargazer



photo by Sam Low

Aloha mai!

Welcome to 'Imiloa's monthly membership e-newsletter, *Kilolani*. Please send your comments and feedback to our Membership and Development Office at membership@imiloahawaii.org or call (808) 969-9732.

'Imiloa Astronomy Center is open from 9:00 am to 4:00 pm, Tuesday through Sunday, and on these holidays: Memorial Day, King Kamehameha Day, Independence Day (Fourth of July) and Labor Day. We're closed on Thanksgiving, Christmas and New Year's Day.

Calendar of Events at a Glance

-- details provided below

2009: International Year of Astronomy (IYA)

Every Saturday: Keiki Kilohoku Korner activities from 9:30 am to 11:00 am
 10:00 am Sesame Street's *One World, One Sky: Big Bird's Adventure**
 *Due to the overwhelming popularity of this show, we've also added a noon show every Saturday. Please note that the final noon show will be this Saturday, September 5.

September: Celebrate Museums Month - visit 13 of our Hawai'i Island museums for free!

September 3: *A 3D Hitchhiker's Guide to New Worlds* shows every Thursday at 7:30 pm

September 4: NO *Pink Floyd's The Wall* showings due to special programming

September 4-5: "Lei Hoku, He Pili Aloha" live Japanese-Hawaiian concert in the planetarium

September 7: OPEN on Labor Day

September 15-16: Disney's *Keys to Excellence* program in Honolulu

September 19: *Maunakea Directors' Lecture Series* with Subaru's Masahiko Hayashi at 7:00 pm

September 26: Smithsonian Museum Day - get a free admission coupon to 'Imiloa!

October 4-10: 2009 World Space Week - special programming at 'Imiloa

October 7: Pico Crickets: Art and Electronics Workshop

October 8: 'Imiloa's First Sleepover

October 8: LAST CHANCE to see *A 3D Hitchhiker's Guide to New Worlds* - 7:30 pm

October 10: First TMT BrushBot Micro Robot Tournament

October 16-18: 3rd annual Hilo Wayfinding and Navigation Festival

October 17: *Maunakea Directors' Lecture Series* with Dr. Raymond Blundell of the Smithsonian Submillimeter Array at 7:00 pm

October 24: IYA Block Party in the UH Hilo Science and Technology Park

October 31: 'Imiloa's Halloween Spooky Science Party

October 31: Last chance to see Sesame Street's *One World, One Sky: Big Bird's Adventure*

November 21: HELCO Big Island VEX Tournament

November 21: *Maunakea Directors' Lecture Series* with Dr. David James of the UHH Telescope at 7:00 pm

December 4: Member Mahalo Holiday Party!

December 19: *Maunakea Directors' Lecture Series* with Dr. Mike Bolte of the UC Observatories at 7:00 pm

Questions about any of the above events? Call our front desk at 969-9703.

Image of the Month

The Vista from Valles Marineris



[Click here](#) for an explanation of our September Image of the Month!

Upcoming Events and Activities

The learning continues with *Science Rocks!*

'Imiloa's *Science Rocks!* educational, after-school program is back. With exciting new topics, *Science Rocks!* will be held every Wednesday that school is in session until May 19, 2010. This program is tailored for students in grades 4-6. *Science Rocks!* is held every Wednesday from 2:30 pm to 5:15 pm.

September 2: Light I
September 9: Light II
September 16: Light III
September 23: Sound I
September 30: Sound II

Each session is limited to 20 students and enrollment is necessary, costing \$15 per session. To access the enrollment form, please [click here](#). For more information, please call our School Programs Coordinator, Gail Loeffler, at 969-9729.



Museum Theatre Presentations

Throughout the summer, 'Imiloa had hosted numerous student interns - all of whom created and performed skits on



the 'Imiloa Museum Theatre stage. The interns will continue with their entertaining and educational presentations through Saturday, September 12. More details to come regarding potential presentations after that date.

Tuesdays

2:00 pm - "A Brief History of the 'Ukulele"

2:30 pm - "Poor Pluto"

2:45 pm - "Poor Pluto"

Wednesdays

10:00 am - "Poor Pluto"

12:00 pm - "The Hawaiian Star Compass"

Fridays

10:00 am - "Poor Pluto"

12:00 pm - "The Hawaiian Star Compass"

1:30 pm - "A Brief History of the 'Ukulele"

1:45 pm - "Poor Pluto"

2:30 pm - "A Brief History of the 'Ukulele"

2:45 pm - "Poor Pluto"

Saturdays

11:45 am - "Poor Pluto"

12:00 pm - "A Brief History of the 'Ukulele"

12:30 pm - "Poor Pluto"

1:30 pm - "A Brief History of the 'Ukulele"

1:45 pm - "Poor Pluto"

Sundays

12:00 pm - Live tour of the solar system in 4D2U Theatre, guided by 'Imiloa's junior interns



If you have any questions regarding the schedule of presentations, or if you would like more information about the above list, please call 969-9743.

"Celebrate Museums Month" - September

Join us and celebrate our Big Island museums! In the month of September, 'Imiloa members will receive free admission at thirteen other participating Big Island museums. Conversely, people who are members of other Big Island museums can show their current museum membership cards at 'Imiloa throughout September to get free general admission.

Participating museums include the Amy H.B. Greenwell Ethnobotanical Gardens, Anna Ranch Heritage Center, Astronaut Ellison S. Onizuka Space Center, East Hawai'i Cultural Center, Hawai'i Gateway Energy Center (Friends of NELHA), Hawai'i Tropical Botanical Garden, Kona Historical Society, Laupahoehoe Train Museum, Lyman Museum, Pacific Tsunami Museum, Pana'ewa Rainforest Zoo and Garden, and Volcano Art Center.

Admission is limited to primary and associated member on membership only, with a maximum of two people. For more information, email gchunhoo@imiloahawaii.org or call our front desk.

The 3D Hitchhiker's Guide to New Worlds - September 3

'Imiloa Astronomy Center brings back its popular Thursday evening program *A 3D Hitchhikers Guide to the Universe*, this time focusing on *New Worlds: The Exoplanets*, for a six-week run starting September 3 at 7:30 pm. The program will be offered weekly on Thursday evenings at 7:30 pm through October 8.



Planetarium manager, Shawn Laatsch, describes the evening program as: "jumping off Earth and exploring the local neighborhood of our solar system, including planets and their moons, and then traveling to the newest worlds discovered in our Universe." Wearing special 3D glasses, the audience members will take a journey outward to visit other star systems with planets, including ones recently imaged by Gemini Observatory and the Hubble Space Telescope. This program promises to entertain and educate the audience with imagery that can be seen only in Hilo, as the 'Imiloa Astronomy Center's 3D stereoscopic capability is the first full-dome system with this capability.

The *3D Hitchhikers Guide to New Worlds* live planetarium program will be presented at 7:30 pm. Admission is \$10 for non-members and special member discounts apply. Pre-purchased tickets are available at the 'Imiloa front desk or by phone, at (808) 969-9704.

"Lei Hoku, He Pili Aloha" Concert - September 4 and 5

Experience "Lei Hoku, He Pili Aloha," a live music concert, in the 'Imiloa planetarium on September 4 and 5, featuring Japanese slack-key musician Yumi Ishikawa.

Planetarium displays, projected on 'Imiloa's dome during the program, will feature materials from both the Katsushika and 'Imiloa planetariums. The program will debut with images of the cosmos from the Subaru Telescope, and will also include Hawaiian star lines. The concert features Ishikawa, a noted composer and musician in Japan, who offers her interpretation of Hawaiian music and slack-key performance in tribute to the Japanese love of Hawaiian culture.



V.I.P. Dinner and Show - Friday, September 4 at 5:30 pm

Non-members \$35

Members \$30

Show only - Saturday, September 5 at 6:00 pm (Japanese) and 7:30 pm (English)

Non-members \$15

Members \$12

Museum Day 2009 - September 26

On Saturday, September 26, in coordination with the *Smithsonian* magazine's Museum Day 2009, 'Imiloa offers **free** general admission for two people. Guests **must** bring a copy of the September *Smithsonian* magazine for offer to be redeemed. A museum admission card is available in the magazine's *September* 2009 issue, or can be filled out and downloaded from <http://microsite.smithsonianmag.com/museumday/>

The Galileo Block Party

Party it up with the stars and celebrate the International Year of Astronomy 2009 at the Galileo Block Party. On Saturday, October 24, 'Imiloa Astronomy Center is teaming up with the Maunakea observatories to host a block party from 1:30 pm to 6:00 pm. The party will take place on A'ohoku Street, located directly above the Imiloa Astronomy Center of Hawai'i. The event is **free** and open to the public.

1:30 pm Opening ceremony

1:30 pm - 6:00 pm Activities and hands-on stations by observatories and institutes

4:00 pm - 7:00 pm Special events at 'Imiloa Astronomy Center of Hawai'i (includes showings of *Two Small Pieces of Glass* every 30 minutes and other hands-on activities)

Each observatory will feature booths and activities for everyone to learn about and have fun with astronomy. Participants who visit all booths at the block party will receive free admission to the 'Imiloa Astronomy Center of Hawai'i between 4:00 pm and 7:00 pm. 'Imiloa will also continue its normal hours of operations from 9:00 am to 4:00 pm. For questions, please call 969-9705.



Halloween Spooky Science Party



We are excited to announce the first ever 'Imiloa Halloween Spooky Science Hall. Guests should arrive in a costume to take a spooky tour through 'Imiloa's version of a "haunted house," hosted by a team of "mad scientists." Enjoy this evening of science surprises, a great alternative to navigating the tricky (and sometimes rainy) streets of Hilo on Halloween.

Admission is \$5 for all participants, adults and children. Members receive a discount. No fee for babes-in-arms under 2 years old.

September Skies 2009

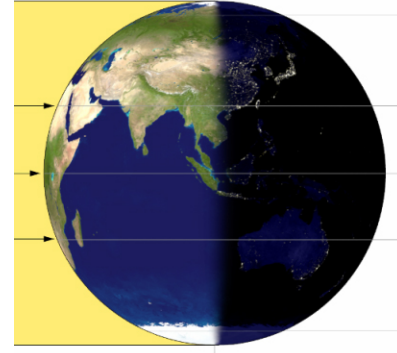
Highlights from the Night Sky

September is a good month to look for the **Zodiacal Light** an hour or two prior to sunrise. This is a faint glow caused by sunlight reflecting off dust particles in the plane of the solar system.

Look for **Venus** and **Mars** in the early morning sky just before sunrise.

Saturn and **Mercury** are in conjunction with the Sun around mid-month making both difficult to see.

The **Autumnal (Fall) Equinox** occurs on the 22nd of the month. At the Equinox, we experience equal day and equal night, with 12 hours of each. Both hemispheres of the Earth receive the same amount of sunlight. Equinoxes are celebrated by many cultures.



September's Celestial Calendar

Wednesday, Sept 2	Ka'awela (Jupiter) 3° south of the Moon
Friday, Sept 4	Hoku (Full Moon) at 6:03 am
Sunday, Sept 6	Ukialiali'i (Mercury) appears stationary
Friday, Sept 11	Kaloakukahi (Last Quarter Moon) at 4:16 pm
Sunday, Sept 13	Hoku'ulapina'au (Mars) 1.1° south of the Moon
Wednesday, Sept 16	Hokuloa (Venus) 3° north of the Moon
Thursday, Sept 17	Makulu (Saturn) in conjunction with La (Sun)
Friday, Sept 18	Muku (New Moon) at 10:44 am
Sunday, Sept 19	Ukialiali'i (Mercury) in inferior conjunction
Tuesday, Sept 22	Autumnal Equinox at 11:19 am
Saturday, Sept 26	'Olekukahi (First Quarter Moon) at 6:50 am
Monday, Sept 28	Ukialiali'i (Mercury) appears stationary
Tuesday, Sept 29	Ka'awela (Jupiter) 3° south of the Moon

Bank of Hawaii Museum Store

It's electric!



'Imiloa's Bank of Hawaii Museum Store has recently received a plethora of new and exciting items - all revolving around the mystery and wonder of electricity. With every item, your keiki will grow, have fun, and learn about science, all at the same time.

From Ein-O's Electric Science Box Kits and build-it-yourself light circuits, to the Electric Plane Launcher of Middlesex University and ScienceTime's Electromagnetic Playground, every toy and kit is both educational and inspiring.

The Bank of Hawaii Museum Store is open Tuesday through Sunday, from 9:00 am to 4:00 pm. If you have any questions, please call 969-9764.

Keiki Kilohoku Korner

Activities every Saturday!

The Keiki Kilohoku Korner, or K-Cubed, is held every Saturday from 9:30 am - 11:00 am for the visitors who come to see Sesame Street's *One World, One Sky: Big Bird's Adventure*, our new 10:00 am keiki planetarium show. Educational activities will take place in 'Imiloa's atrium area. Storytelling, science demos, and experiments will be offered weekly.

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