



THE GEOLOGICAL SOCIETY OF AMERICA'S GEOVENTURE

# HAWAIIAN VOLCANOES

FIELD EXPERIENCE

25 JULY - 1 AUGUST 2012

Join an exciting and enthusiastic group of students and educators as they learn first-hand the wonders of active volcanism on the Big Island of Hawaii!

This eight-day field trip (excluding two travel days) on the Big Island of Hawaii will introduce you to plate tectonics, hot spot volcanism and the geologic features and hazards associated with living on an active volcano. We will discuss volcanic edifices, eruption styles, magma evolution and see various types of lava flows, lava lakes, tree molds and lava trees, fault scarps, rifts, craters and calderas.



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We will use our observations and new-found knowledge to discuss methods on how to effectively communicate geologic concepts with our peers, students, teachers and the general public.

This trip is designed for college students, teachers and teachers-in-training.



**Just \$995\***



\* Price is for GSA members and does not include flights to-from Hilo, HI

# TRIP ITINERARY\*

**Day 1** – Overview/logistics, Kilauea Visitor Center, Steaming Bluffs, Sulphur Banks, Kilauea Overlook, HVO, Jaggar Museum, SW Rift, Halema'uma'u Overlook (if open), Keanakako'I overlook, Devastation Trail, Pu'u Pua'i Overlook. ~ 4 miles of hiking on easy trails. BLD.

**Day 2** – Chain of Craters Road including stops at Lua Manu Crater (hike), Pauahi Crater and others, Mauna Ulu trail to Pu'u Huluhulu, Kealakomo Overlook, Alanui Kahiko, P'u Loa Petro- glyphs, Holei Sea Arch, end of Chain of Craters Road. 6 – 7 miles of hiking on easy trails. BLD.

**Day 3** – Drive north to Waipi'o Valley Overlook. Hike very steep road into valley and beach. Lapahoehoe Point Park. BL.

**Day 4** – Drive to the Puna District to Lava Tree State Monument, Kumukahi Lighthouse, Ahalanui Hot Spring (lunch, swim), Kalapana, Kaimu black sand beach. Possible lava viewing. BL.

**Day 5** – Drive to South Point along the Hawaii Belt Road. Discussion at South Point. Hike to the Papakolea/Mahana Bay green sand beach (lunch, swim). Mauna Loa Road to Mauna Loa Lookout. BL.

**Day 6** – Hike the Kilauea Iki Trail from Kilauea Iki Overlook, Thurston Lava Tube, Kau Desert Trail to Mauna Iki. About 8 miles of easy to moderate trails. BL.

**Day 7** – Swimming, snorkeling (bring your own gear) at Ho'okena Beach Park (near Honounau) Bay, Pu'u honua o Honaunau National Historic Park. Today's activities are subject to change so that we have some flexibility in your adventure. BL.

**Day 8** – Kaumana Cave, Boiling Pots, Rainbow, 'Akaka, and Kahuna falls, lunch on Hilo Bay. Afternoon open for helicopter tours or Hilo exploration. The costs of these options are not included in the trip package. BLD. TODAY'S ACTIVITIES SHOULD COINCIDE WITH THE HILO FARMER'S MARKET

\* Subject to change

BLD - Breakfast/Lunch/Dinner - provided in price if listed

## Price

**\$995 (GSA student and teacher members)**

\$1195 (Non-GSA members)

*(Please note the price does NOT include flights to/from Hilo, HI)*

## Trip Details (the fine print)

- Accommodation is in dorm style rooms at the Kilauea Military Camp with shared facilities.
- Price does not include helicopter flights and snorkeling equipment.
- Price includes meals listed in the Trip Itinerary. Some meals may not be included.
- The trip is open to all teachers, pre-service teachers and college-aged students. Sorry, we can't accommodate other participants.
- Be aware that this trip involves some hiking (as noted in the Trip Plan) you should be moderately fit and have no medical condition that precludes you from participating. Be aware that at times we will be in areas with high sulfur content which can trigger asthmatic and other responses.
- We will be staying on an active volcano and we will always attempt to provide you the very best opportunities to view volcanic processes on this trip. However, we heed all warnings provided by the local authorities and do not venture out onto active lava flows unless in the company of HVO scientists.

**[www.geoventures.org](http://www.geoventures.org)**

# ARRANGING FLIGHTS

The trip cost does NOT include your flights to and from Hawaii. You will need to make flight arrangements yourself to ensure that you arrive at Hilo airport on the Big Island (Hawaii) no later than 5.00 PM on the 24 July. You will be met at the airport at a rendezvous location by the trip leaders, taken to a place for dinner then head to the accommodation.

Your return flight needs to leave Hilo airport of the 2 August no earlier than 11.00 AM. You will be shuttled back to the airport to meet your flights.

Please note that if you arrange flights outside of these times, you will be responsible to arrange and pay for your own transport to meet the group or back to the airport.

We actively discourage any participant having their own hire car while they participate in this trip.

**PLEASE DO NOT ARRANGE AND PAY FOR FLIGHTS UNTIL WE CONFIRM THAT THE TRIP WILL RUN (I.E. WE MEET OUR MINIMUM NUMBER OF PARTICIPANTS).**

## PAYMENTS, REFUNDS & TRAVEL INSURANCE

### **Registration**

To register you must complete the registration form and mail with a check (made out to GSA) for \$200 (see separate registration form). This registration fee is refundable until the 30 May 2012.

### **Full payment**

Full payment (balance) is due before 30 May 2012.

### **Refunds**

If you need to pull out of this trip after 30 May 2012 and before 1 July 2012, you will receive a refund minus the trip deposit (\$200) and an administrative fee of \$150. After 1 July 2012, you will not receive a refund.

In the event that we do not meet our minimum numbers, you will receive a full refund.

### **Travel insurance**

We strongly suggest you obtain travel insurance to cover your costs in the event that you must pull out of the trip due to bad health or other covered reasons.

### **Payment plans**

We can arrange a payment plan option that suits your circumstances - but note all these operate within the dates listed above.

# TRIP LEADERS

## Dr. Jennifer A. Thomson



Dr. Thomson is a Professor of Geology at Eastern Washington University and an Editor of the American Mineralogist. Dr. Thomson's specialties are in mineralogy, igneous and metamorphic petrology, and geochemistry. Her research has involved study of partial melting at granulite facies conditions in New England and in the contact metamorphic aureole of the Stillwater Complex as well as studies on rare tourmaline in the granulite facies terrane of south-central Massachusetts. She has co-taught numerous summer field courses in the Pacific Northwest including the geology of the North Cascades, the Oregon coast and Klamath Mountains, Mt. Rainier and Mt. St. Helens, the Olympic Peninsula of Washington, the Snake River Plain, Craters of the Moon, and Yellowstone National Park, as well as Crater Lake and Newberry Volcanoes, and Glacier National Park. By training she is a metamorphic petrologist, but has an intense interest in igneous petrology as well. She teaches courses in introductory geology (for majors and non-majors), mineralogy, igneous and metamorphic petrology, rocks and minerals and volcanology.

## Mr. Gary B. Lewis



Mr. Lewis is the Senior Director for Education and Outreach at the Geological Society of America. His speciality is the communication of geological processes to teachers, students and the general public and the operation of programs that raise the awareness of Earth Science at an international level. He is a trained geologist - with an honors degree in Geology from the University of Sydney - and a K-12 teacher. He has worked in Earth Science outreach in Australia and the USA and run trips for teachers to Hawaii, Iceland, Australia and other destinations since the 1980s. He is the author of over 30 Earth science teaching resources and currently oversees the EarthCache and EarthTrek programs. He has been involved in teacher and student trips to Hawaii for over twenty years and is passionate about making visits to Hawaii life-changing for the participants.

## Want more information or make a reservation?

Email: [glewis@geosociety.org](mailto:glewis@geosociety.org) or [jthomson@ewu.edu](mailto:jthomson@ewu.edu)

Call : 720 201 8132 (Eastern Time) - Gary Lewis  
509 359 7478 (Pacific Time) - Jenny Thomson



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