



THE GEOLOGICAL SOCIETY OF AMERICA'S AND GISETC'S

HAWAIIAN VOLCANOES

FIELD EXPERIENCE

5-12 AUGUST 2015

Join an exciting and enthusiastic group of K-12 educators as they learn first-hand the wonders of active volcanism on the Big Island of Hawaii!

This eight-day field trip 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.



We will use our observations and new-found knowledge to discuss methods on how to effectively communicate geologic concepts with our students. We will model inquiry in the field.

This trip is designed for K-12 Earth science and Geography teachers with no or little Earth science background



\$1399 (GSA Teacher Members)
Prince does not include airfares to/from Hilo, HI.



TRIP ITINERARY*

Wednesday 5 August - fly into Hilo airport before 5.30 pm. Meet group in airport and be transported to Ken's House of Pancakes (Hilo institution) for dinner at your expense. Drive to accommodation in Volcano (45 mins).

Thursday 6 August - Morning talk : Introduction to Plate Tectonics and Hawaii. Field experiences: Mauna Loa vista, Steaming bluffs - Kilauea Visitor Center - Sulfur banks hike, Jaggar Museum, Halema'uma overlook, Devastation trail. 4 miles of hiking on easy trails. (Dinner at own expense).

Friday 7 August - Morning talk: Introduction to Volcanic landforms. Field experiences: Chain of craters road, pit craters, Pu'u Huluhulu and Mauna Ulu hike. Coastal plain, petroglyphs. 6 miles of hiking on easy trails and 1 mile of hiking off trail. (Dinner provided)

Saturday 8 August - Morning Talk: Lava types, materials and lava tubes. Field experiences: Thurston Lava Tube (early morning), Puna district lava flows, Kumukahi lighthouse, Hot springs (lunch), Kalapana and Kaimu black sand beach. (Dinner in Hilo - own expense)

Sunday 9 August- Field experiences: South Point Day. Discussion at South point. Alternative power and land uses on Hawaii. Hike to Green Sand Beach a breached littoral cone (swim). (Lunch). 4 mile hike on easy trail. (Dinner at own expense).

Monday 10 August- Morning talk: Morning Talk: Living with Hazards in Hawaii. Field experiences: Lapa-hoehoe Point Park, Akaka Falls, Kaumana caves. (Dinner provided)

Tuesday 11 August - Ecosystems and Geology - snorkeling (bring your own gear) and swimming at Ho'okena Beach Park and visit Pu'uhonua o Honaunau National Historic Park. (Dinner in Kona at own expense)

Wednesday 12 August - Transfer to Hilo for flights home (no flights before 11am please). Time for helicopter flights in afternoon (at own expense)

** Itinerary may change due to weather and other factors. This is a guide for days visits only. Order may swap.*

All Breakfasts and some dinners are provided.

Price

\$1399 GSA Teacher members

(hey..it's only \$30 to be a member . Go here <http://tinyurl.com/kl2rxfl>)

\$1499 Non-members

\$400 Deposit is required with registration. See the refund policy details.

Trip Details (the fine print)

- Accommodation is in shared rooms with part shared facilities. Single supplement is \$495.
- Price does not include helicopter flights and snorkeling equipment.
- Price includes meals listed in the Trip Itinerary. We will expect folks to make their own picnic lunches for each day - we will visit stores to get supplies. Light breakfast is provided each day.
- The trip is open to all teachers, pre-service teachers and their families (16 yrs and older). Family members have to stay with the group. There is no discount for children.
- Be aware that this trip involves considerable 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 with a guide.

www.geoventures.org

TRIP LEADER

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. 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

Call : 720 201 8132 (Eastern Time) - Gary Lewis