WELCOME

Since 2009 the PATA Workshops have become the premier international exchange of new paleoseismic and archæoseismological methods and results. We are proud to welcome the 7th PATA Days Workshop to the USA and Crestone.

The Workshop invites presentations on:
- active tectonics/neotectonics
- tectonic geomorphology
- surface faulting
- paleoseismology
- earthquake-induced landslides
- liquefaction
- archæoseismology
- probabilistic seismic hazard assessment
- probabilistic fault hazard displacement analysis
- Quaternary geochronology
- shallow geophysics for seismic hazard assessment
- remote sensing of earthquake deformation (LiDAR, InSAR)

DEADLINES

Feb. 15, 2016: submit 300-word Abstract
March 15, 2016: submit 4-page extended abstract
- early registration
Email Abstracts to: mccalpin@geohaz.com

PROGRAM

24 to 29 MAY: 1st PATA Road Trip “FAULTS OF THE WILD WEST”: limited attendance (see details on other side)

29 MAY, Sunday
Road Trip and PATA Days attendees arrive at Denver International Airport, airport hotel; icebreaker, 7 pm

30 May; Monday (Memorial Day)
Travel by bus from Denver Airport Hotel to Crestone, running commentary on geology of Front Range, South Park, Rio Grande Rift. Afternoon registration and check-in in Crestone; opening ceremony; keynote lectures, poster sessions

31 MAY, Tuesday
Morning-Technical Session 1; Afternoon-Technical Session 2. Evening INQUA business meeting

01 JUNE, Wednesday
Morning-Technical Session 3; Afternoon, field trip to local Quaternary fault scarps. Poster sessions. Evening, Western cookout at the McAlpine Ranch

02 JUNE, Thursday
Morning-Technical Session 4; Afternoon-Training session in field techniques (fault zone data collection with ERT, DFM from UAVs, trench logging with BFM). Evening entertainment, Crestone Tribal

03 JUNE, Friday
Check out at 8 am; all-day Field Trip to Upper Arkansas Valley of the RG Rift: Faults, Glaciers, and Jokulsarps. Trip ends at Leadville; bus continues to Denver airport hotel; arriving 6-7 pm. Closing ceremony in evening

04 JUNE, Saturday
Registrants depart via Denver International Airport

TRAININGS

Half-day (afternoon) of Thursday, June 2. Includes remote sensing to locate fault traces, pre-benching geophysics, trench site selection, and interpretation of trench exposures. Uses the permanent teaching trench on the Villa Grove Fault Zone, north of Crestone.

EVENTS

Crestone Tribal

REGISTRATION

Register/pay on these Web pages: PATA Days
https://www.eventbrite.com/e/7th-int-conf-on-paleoseismology-active-tectonics-archæoseismology-tickets-20402780265

Road Trip
https://www.eventbrite.com/e/pata-road-trip-faults-of-the-wild-west-tickets-20404574632

How to Get Here

Crestone is located in the San Luis Valley, 185 road miles southwest of Denver. From the Front Range, take US Highways 285 (Denver).
PATA Days 2013 will be accompanied by 4 field trips as well as 4 field training sessions. In this age of digital remote sensing and data manipulation, let's not forget that active tectonics, palaeoseismology, and archaeoseismology are field sciences. The field trips will visit mostly normal faults of the Basin and Range and Rio Grande Rift provinces. Active tectonism has produced some of the iconic rugged scenery of the American West. Field trips will also cover the brief but violent past of the Wild West and cultures that preceded it (Texas, France, Spain, and Native American).

### 1st PATA Road Trip, Faults of the Wild West

**Route of Road Trip**

- **Day 1:** Denver, CO to Denver, UT
- **Day 2:** Denver, UT to Leadville, CO
- **Day 3:** Leadville, CO to Denver, CO

**Pre-Meeting Field Trip**

- **Río Grande rift, Buena Vista, CO**
- **Wasatch Fault, Salt Lake City**
- **1983 Borah Peak fault, ID**
- **Teton Fault, Idaho**

**Intra-Meeting Field Trip**

- **Faults of the Upper Arkansas Graben, Rio Grande rift**
- **jökulhaup boulder, Arkansas River**
- **Rapid-drawdown landslide from failure of LGM ice dam**

**Post-Meeting Field Trip**

- **Pre-Meeting Field Trip:** May 30, 2013; starts in Denver, travels across Piedmont into the Front Range; Quaternary landforms and neotectonics of Front Range; South Park, a high intermountain basin; late Tertiary volcanism and the creation of the Río Grande rift; the Sangre de Cristo Range, boundary between the French and Spanish colonial empires; arrives Crestone ~ 1 pm, start of Workshop.

**Post-Meeting Field Trip:** June 1, 2013; starts in Crestone and travels north up the axis of the Rio Grande rift to Leadville, highest city in the USA (3095 m); all day ~10 field stops; active normal faults, LGM glaciation, ice dammed lakes, dam failure and jökulhaups, related landslides, sackungen. Trip continues to Denver via I-70, arrives Denver ~6-7 pm.