Welcome

Geology of New Mexico Landscapes:
The Rocks Tell Many Tales

with Albert Shultz and Peter Barkmann
G24050205
May 8-12, 2024
Itinerary and What to Bring

Day 1 - Arrival and check-in, 3-6 pm
     Evening orientation meeting (1 hour)

Day 2 - Chama Valley: Ghost Ranch, between the Colorado Plateau and the Rio Grande Rift
     (30 mins.driving, 3 hours hiking)
2.1 City Slickers cabin (1 hour) — panorama of Piedra Lumbre valley, outline of geologic history
2.2 Roadside with El Rito Fm. gravels (45 mins.) — setting, Cenozoic history, rock type identification and provenance
2.3 Chama River overlook (20 mins.) — Rift boundary fault, Jemez history
– Lunch at Ghost Ranch
2.4 Hike to Chimney Rock, or Coelophysis quarry and Box Canyon (3 hrs) — stratigraphy, paleontology, geomorphology.

Day 3 - Jemez Volcanic Field (2 hrs. hiking, 4 hrs. Total driving)
3.1 roadside stop, Puyé turnoff — Rio Grande Rift overview; Jemez and Caja del Rio volcanics (15 mins.)
3.2 Tsankawi trail (2 hrs.) –OR– Anderson Overlook: Jemez overview; tuff, pumice
– Field lunch
3.3 Valle Grande overlook — eruption, caldera collapse, lake
3.4 Soda Dam
Return via Los Alamos

Day 4 - Tusas Mountains (3.5 hrs driving)
4.1 El Rito, red conglomerate cliffs of El Rito Formation (Eocene) - (30 mins.)
4.2 Travertine at roadside stop between El Rito and La Madera - (30 mins.)
4.3 Schist and metaconglomerate outcrops, Big Rock, near Vallecitos - (1.5 hour)
– Field lunch
4.4 Apache pegmatite mine off forest road to Petaca - (1.5 hour)
Return via La Madera, El Rito, Abiquiu

Day 5 - Check-out and departure after breakfast

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What to Bring:

- Outdoor clothes for layering
- Hiking shoes or boots
- Rain jacket or poncho
- Water bottle
- Brimmed hat for sun
- Sunscreen
- Notebook

Optional but recommended:
- Camera / smartphone
- Binoculars
- Daypack or shoulder bag
- Rock hammer
- Hand lens (magnifying loupe)