

# CALL FOR PAPERS

## *2020 Mt. Taylor Area Fall Field Conference Guidebook*

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View of Mt. Taylor and La Jara Mesa from Day 1, Stop 2. Slopes in the foreground, Morrison Formation.

The 2020 NMGS Fall Field Conference (Sept. 23-26) will visit the area around Mt. Taylor, a stratovolcano near Grants, New Mexico. The motivations for hosting a conference at Mt. Taylor are two-fold: 1) the completion of the Mt. Taylor geologic map and 2) the conclusion of “Energize New Mexico,” a five-year, NSF-funded program to support research in non-carbon emitting energy resources, including uranium resources. Researchers from the projects will lead or present during the conference. The Mt. Taylor area is rich in geologic history, including the relatively rapid creation of a complex volcanic mountain, the important uranium and coal deposits preserved in the shadows of Mt. Taylor and the resulting mining legacy, and the Jurassic and Cretaceous stratigraphy within and surrounding Mt. Taylor.

The leaders of the conference request your submissions for the conference guidebook. **Please contact one of the following people in advance of the manuscript deadlines to communicate your intent to submit a technical paper or mini-paper, the sooner the better:**

- Bonnie Frey – [bonnie.frey@nmt.edu](mailto:bonnie.frey@nmt.edu)
- Shari Kelley – [shari.kelley@nmt.edu](mailto:shari.kelley@nmt.edu)
- Virginia McLemore – [Virginia.mclemore@nmt.edu](mailto:Virginia.mclemore@nmt.edu)
- Fraser Goff – [candf@swcp.com](mailto:candf@swcp.com)

Papers will be due on March 1, 2020. Please find the instructions for authors here:

<https://nmgis.nmt.edu/ffc/authors/AuthorInstruc.pdf>

## Itinerary

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Day 1 (Sept. 24) – The geology of the San Mateo Creek Basin. Stops will focus on the stratigraphy of the region, from the Entrada Sandstone of the Jurassic to the Point Lookout Sandstone of the Upper Cretaceous. An important producer of uranium ore, the area offers participants the opportunity to learn about uranium mines and the mill sites that processed the ore while climbing among well-preserved outcrops that span a nearly complete Jurassic section.

Day 2 (Sept. 25) – The volcanics of Mt. Taylor. We will visit Water Canyon on the southeast slopes of Mt. Taylor where we will discuss Cretaceous sedimentary rocks and much younger mafic and felsic volcanic rocks and observe the resulting contact metamorphism in the middle of the Amphitheatre. This is a rare opportunity to visit an area that is under the jurisdiction of Laguna Pueblo.

Day 3 (Sept. 26) – The mining legacy on the east side of Mt. Taylor. The day will focus on mines that produced from the Jackpile Member of the Morrison Formation, a member that is not found in the San Mateo Creek Basin. Mine remediation workers and uranium transport and mineralization researchers will be among the presenters.



Contact between the Meniffee Formation and the overlying Point Lookout Sandstone on San Mateo Mesa (Day 1, Stop 3) looking east toward Mt. Taylor.

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