

**Fourth International Conference on Early Mars  
Field Trip Waiver of Liability**

**Grand Canyon, Sunset Crater, San Francisco Volcanic Field Park**

*If you are participating in the field trip, print out this form, complete, sign,  
and turn it in on the morning of the field trip.*

**Date of Event: Wednesday, October 4, 2017**

**Departure: 8:00 A.M. — Return: 6:00 P.M.**

We will depart from DoubleTree Hotel at 1175 West Route 66. Shuttle buses will be parked in the front of the hotel.

**Field Trip Destinations:** South Rim of the Grand Canyon, Sunset Crater, and San Francisco Volcanic Field Park

**Name of Workshop:** Fourth International Conference on Early Mars

**Activity Sponsor:** Universities Space Research Association / Lunar and Planetary Institute

**What to bring:** A small backpack (day pack), hiking boots are preferred but closed toe shoes suitable for hiking on rock are required, light jacket or other rain proof windbreaker or poncho, hat (with chin strap preferred), sunglasses, canteen and/or water bottles, personal first aid kit, an emergency blanket (suitable protection from sun), sunscreen, bug spray, and a camera. You might also want to bring a pair of binoculars, if you have them (Note: water is not sold in the Grand Canyon Park, but there are springs and potable water is dispensed from a couple of filling stations near the Visitor's Center).

**What NOT to bring:** Rock hammer; it's a National Park and collecting samples is forbidden. A hand lens is ok for looking at rocks *in situ*, but not for collecting samples.

**Itinerary/Description of Activity:** This all-day field trip will be led by Jack Farmer (Arizona State University) and will include a geologically diverse series of stops relevant to Mars geology and habitability, including interpretation of the stratigraphic record, fluvial outcrops (red beds), and volcanic landforms. The tour bus will leave the hotel in Flagstaff and make its first stop at the Grand Canyon Visitor's Center, where we'll see an orientation film and exhibits, and then walk the Rim Trail (with excellent views of the Canyon) to the Geology Museum, with its excellent indoor exhibits. A field guide, based on a set of themes relevant to Mars, is being generated to guide discussions, starting with the basic concepts of habitability, the evolution of habitability over geologic timescales, and how these concepts have shaped Mars exploration, using the Canyon sequences as an example — particularly what the major unconformities exposed in the Canyon stratigraphy tell us about the nature of the geologic record (mostly missing due to erosion or a lack of deposition) and how Mars differs from a tectonically active, hydrologic-cycle-driven planet like Earth.

After visiting the south rim of the Grand Canyon, we will head east on Hwy 64 to Cameron and then take Hwy 89 south through the eastern part of the San Francisco volcanic field and on to Sunset Crater. Along our route, we will see many examples of the Triassic Moenkopi outcrops (red beds) which were formed by extensive coastal plain fluvial sedimentation during the early Triassic (some of which are good analogs for Gale Crater). Arriving at Sunset Crater, we will have an opportunity to take a 1.5 km trail hike through recent basaltic flows and pyroclastics erupted from along the western edge of Sunset Crater, almost 1100 yrs. ago. Following our hike at Sunset Crater, we will return to Flagstaff.

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I certify and affirm that I have been completely and thoroughly informed of the activities and conditions associated with the activity described above and in any documents incorporated by reference in this waiver. I recognize that this activity may involve physical demands and/or dangers:

I hereby certify and affirm that I am physically able to meet the demands of the activity. If I have any health conditions or allergies that should be noted, I have disclosed them here:

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**Emergency Contact:**

Name: \_\_\_\_\_

Relationship: \_\_\_\_\_

Phone Number: \_\_\_\_\_

In case of emergency if I should be unable to consent to emergency medical treatment for myself, and if any emergency contact identified above either cannot be reached in a timely manner or does not have a medical power of attorney to allow them to make health care decisions for me, then:

- (a) I hereby consent to examination or treatment by any emergency response personnel or any health professional duly licensed to provide health care service in the United States, and/or by any physician duly licensed to practice medicine in the United States, for medical care and services deemed necessary by such doctor or health care professional, any hospital and any of their agents, servants, and employees.
- (b) I give permission to the doctor or health care professional to provide any and all medical care they deem, in their professional opinion, to be necessary.
- (c) I agree to pay for any and all medical expenses incurred as a result of the use of this consent.

In consideration for participation in this activity and for the opportunities for knowledge gained thereby, I assume all risk in connection with the said activities for any harm, injury, or damages that may befall me as a result of my participation therein, whether foreseen or unforeseen. **I hereby voluntarily release and agree to indemnify and hold harmless, Universities Space Research Association, its officers, employees, and representatives, in their individual and official capacities, from any liability to me, my personal representatives, estate, heirs, next of kin, and assigns for any and all claims and causes of action that are in any way connected with this activity or transportation to and from the Field Trip Destinations. The foregoing release and indemnification includes any loss of or damage to my property and for any and all illness or injury to my person, including my death, that may result from or occur during my participation in the activity, WHETHER CAUSED BY THE NEGLIGENCE OR INTENTIONAL ACT OF USRA, ITS CLIENT, THEIR OFFICERS, EMPLOYEES, OR REPRESENTATIVES, or SUBCONTRACTORS, OR OTHERWISE.**

I further agree to indemnify and hold harmless Universities Space Research Association, its Client (if Sponsoring Entity is other than USRA), and each of their officers, employees, and representatives, and any of their subcontractors, including any transportation provider, in their individual and official capacities, from liability for the injury or death of any person(s) and damage to property that may result from participant's negligent or intentional act or omission while participating in the described activity.

I acknowledge that this waiver has the same force and effect regardless of whether the activities engaged in are free or if a fee is charged, as any fees are simply to defray the costs of participation and transportation. I agree that if any portion of this agreement is found be void or unenforceable, the remaining portions remain in full force and effect.

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Signature

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Printed Name

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Date

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E-Mail Address