Snake River Plain Field Trip 7-9 October, 2016

Geologists of Jackson Hole field trip led by Scott Hughes and Shannon Kobs-Nowatniak, of Idaho St. Univ.

The field trip begins along The Great Rift

Our first stop was an overlook of the Wapi volcanics at the Great Rift (also known as the "Crystal Ice Cave" of past repute).

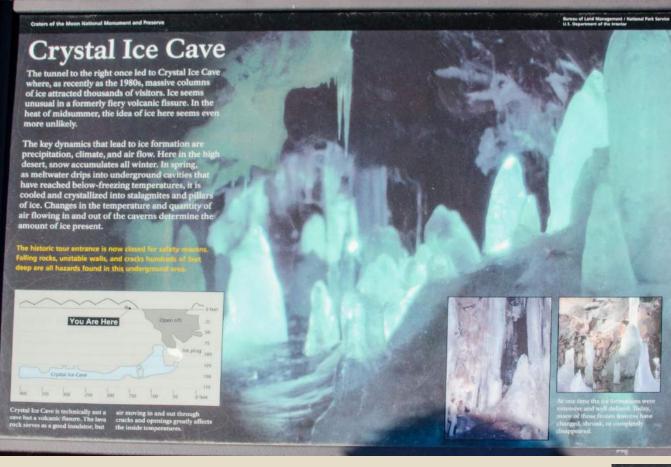


The field trip begins along The Great Rift



Scott and Shannon provide context and info about what we are seeing and about to walk about in.





We see and explore only the uppermost part of the rift system, but once a tourist attraction and far below is, still, the "Crystal Ice Cave".



Crystal Ice Cave is technically not a cave but a volcanic fissure. The lava rock serves as a good insulator, but

air moving in and out through cracks and openings greatly affects the inside temperatures.

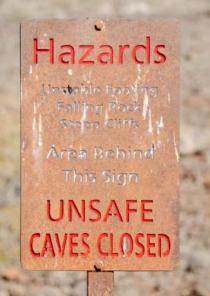


We are able to look down into frozen volcanic depths, and then turn towards the south and see the rift system extend for miles. Two thousand years ago fountains of lava played along this system.





The rift "caves" are now closed due to very significant safety concerns - and looking down into the rift's depths it is easy to understand why.





Scott points out features that document that 2,000 years ago this was an active lava lake - which we then walk out across and explore. The lake's natural levee is the ridge in the distance.



Exploring and understanding the lava lake's natural levee and its other features.

The Great Rift





One of the amazing features is the "field of mushrooms".

These are places where projectiles from the rift penetrated the solidifying lava lake surface which caused lava to ooze up and "freeze" in mushroom shapes.

Phil Hocker stands above the dike along which the magma was injected

The Great Rift

Back over to the rift itself we look into the chasm that is "Kings Bowl", a blowout feature in the rift trend.





There is a trail down into the depths of Kings Bowl and part of the group, led by Scott Hughes, descends along the path.





Craters of the Moon
Preserve signs
provide information
about the Great Rift
and Kings Bowl —
though we have
better info from our
ISU guides!





Explored by our group from below & atop along the edge.....

Good
thing that
the
"Unsafe
Caves
Closed"
sign faces
away
from our
intrepid
members!





On a glorious and cool Idaho day!

Lunch by the Great Rift







The afternoon is spent at the Wapi volcanics

Where a plethora of amazing volcanic features are so evident.







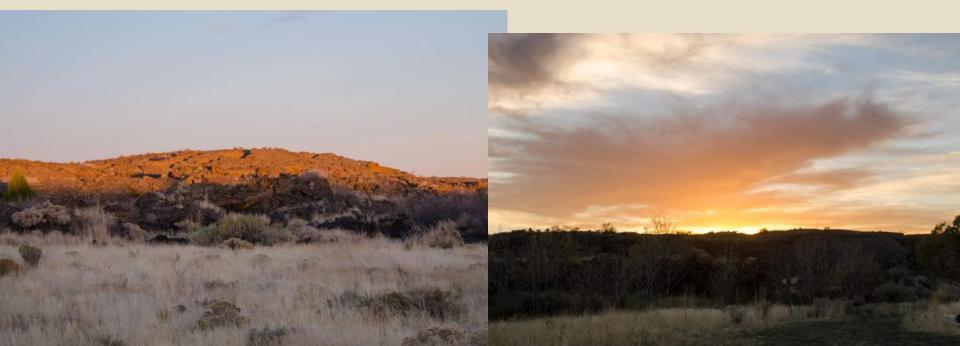
Our outstanding chef makes his preparations as the evening light begins to fade.







A wonderful setting for the potluck dinner of the field trip.





Chef Weichman begins his magic......



We witness his use of his "tools of the trade", relishing the magic he is creating.



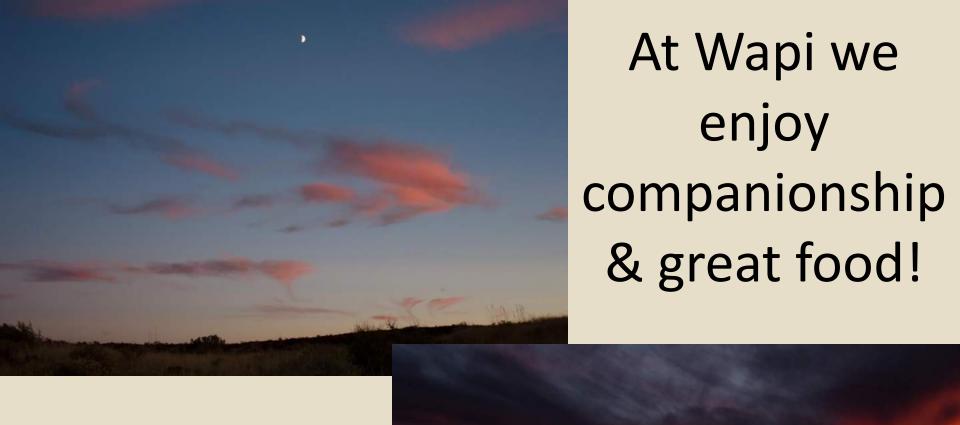


And then we can only await our bit of carnivorous heaven and enjoy the results!





And then we can only await our bit of carnivorous heaven and enjoy the results!



And to augment the evening mother nature puts on her own show.



Then north from Wapi Park to other features

"Cottrel's Blowout" is another, older rift feature – perhaps 75,000 years old.

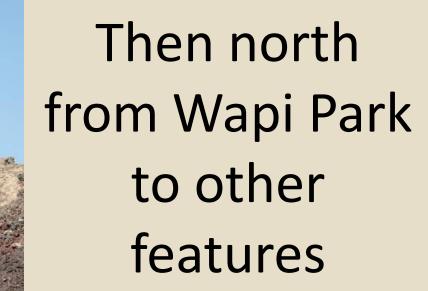




Then north from Wapi
Park to other features

With South Big Butte, a rhyolite dome in the background, we examine North Robbers Spatter Cone as our next to last stop.





Field trip members atop
the spatter cone, and a
close-up look at the
what was once molten
spatter, looking as fresh
as if it were erupted
just last week.



Then north from Wapi
Park to other features

Scott & Shannon explain the origin & features of the rhyolite domes and the spatter cone that is North Robbers.





But all good things must end...

And so with a view of Middle Butte & Eastern Butte in the distance (also rhyolite domes), we conclude an outstanding trip, say adieu', and begin our drives home.