

# Yukon Quaternary Soils: Factors - Processes - Interactions

WHITEHORSE - KLUANE LAKE - DAWSON - WHITEHORSE, JULY 28 - AUGUST 4, 2018

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Abstract submission and oral program: Daniela Sauer (University of Göttingen, Germany)



*Dust storm on Slims River delta, Kluane Lake (July 2009).*



*Workshop locations.*

# WORKSHOP PROGRAM (times are approximate)

## DAY 1 (SATURDAY, JULY 28)

Participants arrive in Whitehorse.

6.00 pm: Orientation meeting.

8.00 pm: Dinner (not included), stay overnight in Whitehorse.

## DAY 2 (SUNDAY, JULY 29)

8.00 am: Pick up rental vehicles.

9.00 am: Drive to Kluane Lake Research Station (KLRS).

12.00 pm: Lunch (included).

1.00 pm: Paper presentations at KLRS.

6.00 pm: Dinner (included), stay overnight at KLRS.

## DAY 3 (MONDAY, JULY 30)

8.00 am: Breakfast (included), paper presentations at KLRS.

12.30 pm: Lunch (included).

1.30 pm: Local field trip at Kluane:

⇒ **Modern and Holocene loess production; recent glacial drainage changes; soil patterns in a boreal grassland-forest mosaic**

6:00 pm: Dinner (included)

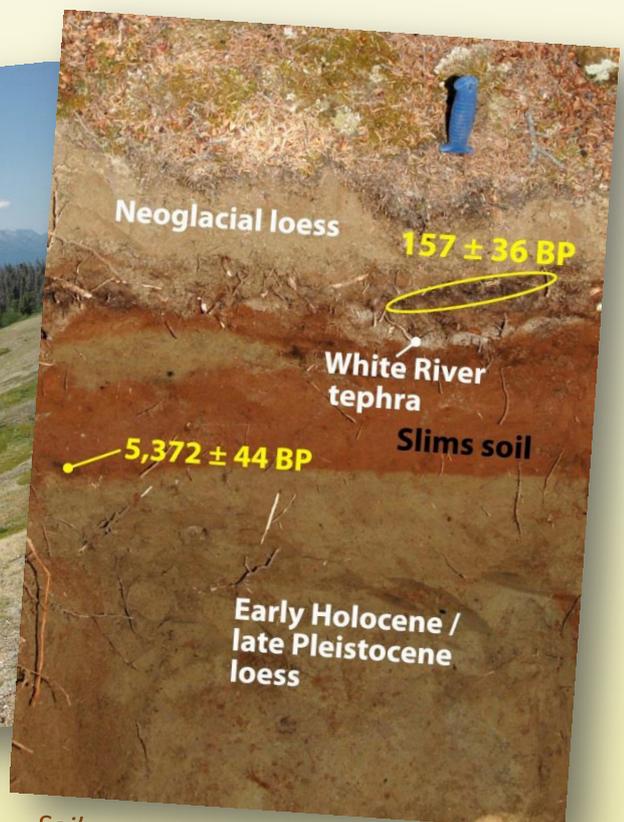
8.00 pm: Return to Whitehorse.



Grizzly bear footprints on beach, Kluane Lake.



Grassland-boreal forest mosaic, southeast side of Kluane Lake.



Soil east of Kluane Lake, showing two episodes of loess deposition and soil formation. Dates are calibrated radiocarbon ages of soil charcoal.

# WORKSHOP PROGRAM (times are approximate)

## DAY 4 (TUESDAY, JULY 31)

8.00 am: Drive to Dawson City (~ 550 km), with 3 stops:

⇒ **Rough chronosequence of soils on progressively older glacial surfaces (Wisconsinan, penultimate glaciation, early Pleistocene), influence of tephra, aeolian deposition, periglacial processes.**

Field lunch, water and snacks included.

8.00 pm: Dinner (not included), stay overnight in Dawson.

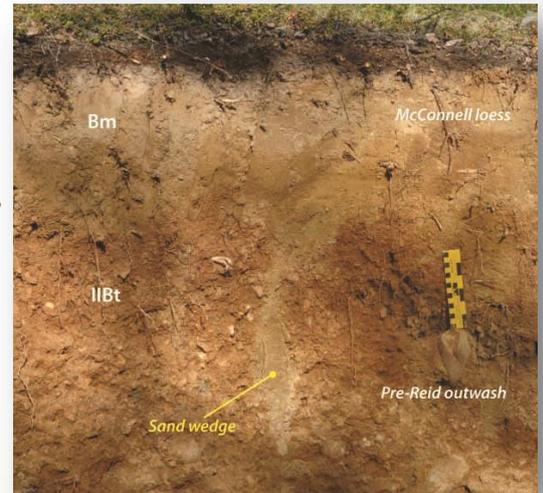
## DAY 5 (WEDNESDAY, AUG 1)

8.00 am: Round trip ~ 200 km.

⇒ **Visit sites in the adjacent Klondike Goldfields: unglaciated uplands with soils formed in weathered bedrock and colluvium, and early Pleistocene glacial outwash.**

Lunch boxes, water and snacks included. Depending on the state of placer mining activity, there may be an opportunity to see new exposures of Pliocene sediments which may contain evidence of pedogenesis.

8.00 pm: Dinner (not included), stay overnight in Dawson.



*“Wounded Moose” paleosol in early Pleistocene glacial outwash, Tintina Trench.*



*Diversion Creek paleosol, with sand wedge, in outwash sediments of penultimate (Reid) glaciation.*

*Weathered bedrock and colluvium, Klondike goldfields.*



## DAY 6 (THURSDAY, AUG 2)

8.00 am: Drive on the “Top of the World Highway” (round trip ~ 200 km) between Dawson and U.S. border. Most of the route is above treeline, and provides great views of unglaciated landscapes similar to much of interior Alaska and eastern Siberia, with cryoplanation terraces, solifluction lobes, and strong control of soil formation and permafrost distribution by slope aspect. Lunch boxes, water and snacks included.

8.00 pm: Dinner (not included), stay overnight in Dawson.

## DAY 7 (FRIDAY, AUG 3)

8.00 am-10.00 am: Workshop discussion and conclusion meeting.

10.00 am: free time in Dawson (museum, shopping, gold rush tourist sites), lunch (not included).

1.00 pm: return to Whitehorse.

8.00 pm: Dinner (not included), stay overnight in Whitehorse.

## DAY 8 (SATURDAY, AUG 4)

Air departures for participants.

*Solifluction lobes in alpine tundra, Top of the World Highway.*



# WORKSHOP FEES

**\$CAD 1840 including 5% GST** (single room for the 6 nights in Whitehorse and Dawson)

**\$CAD 1400 including 5% GST** (twin/double room for the 6 nights in Whitehorse and Dawson)

At the Kluane Lake Research Station (KLRS), all accommodation is shared.

**Bedding is not supplied at KLRS - please, bring your own sleeping bag and towel!**

Fees include accommodation, field trip ground transportation, field lunches, water and snacks, and field guide. Participants will be asked to assist with driving rental vehicles.

Registration and payment via UNBC Conference Services through the workshop website at:

<https://www.uni-goettingen.de/de/inqua+focus+group+quasap/578655.html>

Major credit cards accepted - VISA, Master Card, Amex.

**PLEASE, NOTE THAT THE FOLLOWING ADDITIONAL COSTS ARE NOT INCLUDED IN THE WORKSHOP FEE:**

- transportation to Whitehorse
- 5 dinners, 5 breakfasts (during our stay at Kluane Lake Research Station all meals are included)
- taxi fares between Whitehorse Airport and hotel downtown

## IMPORTANT DEADLINES

**April 1:** Registration and non-refundable deposit of \$CAD 300 via website:

<https://www.uni-goettingen.de/de/inqua+focus+group+quasap/578655.html>

Abstract submission to: [daniela.sauer@geo.uni-goettingen.de](mailto:daniela.sauer@geo.uni-goettingen.de)

**June 1:** Balance of the payment due.

***Space is limited to a maximum of 20 participants. Register early!***

***Queries about itinerary and logistics? Contact Paul Sanborn ([sanborn@unbc.ca](mailto:sanborn@unbc.ca)).***



*Alpine tundra, unglaciated Klondike plateau, Top of the World Highway.*



*View of Dawson, facing south (upstream) from Midnight Dome, and the Yukon River at its confluence with the Klondike River.*