

Agenda: 6th Annual Meeting of the Permafrost Carbon Network

Sunday, 11 December 2016

Location: Parc 55 Hotel (55 Cyril Magnin Street, San Francisco, CA, 94102)

Room: Market Street



Morning (9 am – 12 pm)

9:00 – 9:45 Introduction and overview of PCN activities (incl. 15 minutes of discussion)

Lead: Ted Schuur, Christina Schädel

9:45 – 10:30 Synthesis updates (5 minutes presentation, 2 minutes discussion)

Chip Miller: Arctic Atmospheric Methane Synthesis

Sue Natali: Pan-Arctic synthesis of cold Season Carbon Emissions

Heather Kropp: Impacts of Vegetation on the Decoupling between Air and Soil Temperatures across the Arctic

David Olefeldt: Dissolved Organic Matter Composition in Waters Draining Permafrost Landscapes – a Circumpolar Synthesis

Christina Schädel: Updates on permafrost incubation database and 3-pool modeling

Cristian Estop-Aragones: Synthesis on carbon mobilization from permafrost environments using radiocarbon

10:30 – 10:50 Coffee break

10:50 – 12.00 Synthesis updates (5 minutes presentation, 2 minutes discussion)

Jens Strauss: Updates on Permafrost Deep Organic Matter: Yedoma Carbon and Nitrogen

Yuanhe Yang: Tibetan permafrost carbon stocks

Guido Grosse: Thermokarst and Thermo-Erosion Rates Synthesis

Merritt Turetsky: Thermokarst carbon upscaling

Claire Treat: First assessment for global peatland distribution for the past one hundred ten thousand years

Christian Andresen: Wetter or drier? An insight into hydrology projections in permafrost regions

Dave Lawrence: PCN model summary results

Dave McGuire: Comparing permafrost soil carbon pools from earth system models to empirically derived datasets

Dave McGuire: Update on Methane syntheses

12.00 – 1.00 pm Lunch at Parc 55 (provided by PCN/SEARCH for registered participants)

Afternoon (1.00 pm – 5:00 pm)

1:00 – 1:30 Pop-Up presentations (3-5 minutes each):

Overview: Ted Schuur

NEON: Mike SanClements

ABOVE: Scott Goetz

NGEE: Cathy Wilson

PAGE21: Han Dolman/Gerhard Krinner

ArcLTER: Breck Bowden

AON: Eugenie Euskirchen

GlobPermafrost: Guido Grosse

1:30 – 2:30 1st Breakout.

Main Questions: What are the 3 top opportunities for synthesis? This can be field, lab or model based.

- 1) What is possible in 1 year?
- 2) What is possible mid-range, 1-3 years?
- 3) What are the remaining holes, data gaps?

Roundtable discussion: pre-assigned groups, one discussion leader and note taker, same topic for all groups but multiple discussion groups (~10-15 per group).

2:30 – 3:00 Breakout summary

3:00 – 3:30 Coffee break

3:30 – 4:30 2nd Breakout.

Topic: Synthesis specific discussions:

- a) **Vegetation dynamics** (leads: Heather Kropp, Mike Loranty)
- b) **Top-down versus bottom up approaches** for estimating carbon fluxes from the Arctic (leads: Sue Natali, Eugenie Euskirchen)
- c) **Ground-Ice content in the permafrost zone** (lead: Merritt Turetsky)
- d) **Methane syntheses** and Methane workshop (lead: Dave McGuire, Jennifer Frederick)
- e) **Radiocarbon in permafrost synthesis** (lead: Cristian Estop-Aragones)
- f) **Others, TBD**

4:30 – 5:00 Wrap-Up and Outlook