North Yukon Permafrost Conference Dawson City, Yukon 21-26 August 2022

Preliminary Program Overview

The North Yukon Permafrost Conference is an initiative of the First Nation of Na-Cho Nyak Dun, Tr'ondëk Hwëtch'in First Nation, Vuntut Gwitchin First Nation, and the Canadian Permafrost Association.

Sunday, 21 August	
Afternoon	Check-in
Evening	Opening Reception – MC Kumari Karunaratne
	Opening Prayer – TH Elder
	Words of welcome – Chief Roberta Joseph
	Words of context - Chief Simon Mervyn
	Words of commission – Chief Dana Tizya-Tramm Permafrost Strategy and Agenda – Stephan Gruber
M 1 22	A
Monday, 22 August	
Morning	Theme: Setting the scene – MC TBC
	Creating a permafrost research agenda for the North Yukon First Nations' Traditional Territories – Debbie Nagano
	Permafrost in central and northern Yukon – Chris Burn
Afternoon	Field Trips
Tuesday, 23	3 August
Morning	Theme: Impacts of climate change on First Nations – MC Joella Hogan
	Keynote: Steve Kokelj
	Panel: <i>Using Indigenous knowledge in Land Use Planning</i> – Mathieya Alatini (Chair); Mark O'Donoghue; Debbie Nagano
	Breakout Discussions: All participants
	Lunch and Posters
Afternoon	Theme: Municipal Infrastructure – MC Jocelyn Hayley
	Keynote: Don Hayley
	Panel: <i>Infrastructure and permafrost in Yukon communities</i> – Lukas Arenson (Chair); Trevor Ellis; Priyank Thatte; Ed Hoeve
	Breakout Discussions: All participants
Evening	Public Lecture: Mark O'Donoghue, Regional Biologist, Northern Tutchone Region, Yukon

Wednesday, 24 August		
Morning	Theme: Adaptation to climate change – MC TBC	
1101111118	Themes rating to the commute than go and re-	
	Keynote: Council of Yukon First Nations	
	Panel: Environmental components of mining in permafrost terrain - Stephan Walke (Chair);	
	TBC	
	Breakout Discussions: All participants	
1.0	Lunch and Posters	
Afternoon	Theme: Geohazards – MC Bill Kendrick	
	Keynote: Wayne Potoroka	
	Vermeter Jurien van der Cluie	
	Keynote: Jurjen van der Sluis	
	Panel: Permafrost Carbon – Erika Tizya-Tramm (Chair); Pascale Roy-Léveillée;	
	Tanci. Termanose carbon Linka 112ya Trannin (chan), Tascale Roy Levelnee,	
	Breakout Discussions: All participants	
Evening	Public Lecture: Duane Froese, University of Alberta	
Thursday, 25 August		
Morning	Theme: Linear Infrastructure – MC Guy Doré	
	Keynote: Fabrice Calmels	
	Keynote: Chris Stevens	
	Panel: Managing highways sustainably – Robin Chambers (Chair); Cathy Brais: Sandra	
	MacDougall; Ryley Beddoe	
	Proglegat Diagnasiana, All participants	
Aftannaan	Breakout Discussions: All participants	
Afternoon	Field Trips Conference BBQ	
Evening Friday, 26		
Morning	Panel: Wrap-up Reports and Recommendations – Chair: Stephan Gruber	
Morning	(1) Field Trip Reports – TBD 3 Early Career Researchers	
	(2) Session Themes – TBD 5 Early Career Researchers or First Nation Citizens	
	a. Impacts of climate change on First Nations	
	b. Municipal Infrastructure	
	c. Adaptation to climate change d. Geohazards	
	e. Linear Infrastructure	
	e. Linear mirastructure	
	Closing Presentation – TBC	
	Closing Ceremony – MC Kumari Karunaratne	
	Glosing Geremony - MC Kuman Karunarathe	
	1	

Field Trips

The afternoons of August 22 and 25 will be reserved for field excursions. Three different excursions will be offered on both days and participants will have the opportunity to select their preferred excursions on both days.

Klondike "muck" deposits Organized by Duane Froese, Derek Cronmiller, Deputy Chief Simon Nagano, and Elizabeth Hall

This field excursion will visit placer mining exposures of 'muck' or 'yedoma' in the Klondike goldfields near Dawson. These deposits are exceptionally exposed in the area and will be used to illustrate the history of ground ice development in relation to environmental changes over the last 100,000 years. We will observe ice wedges and other relict ground ice along with the abundant and diverse fossils of Pleistocene mammals, ranging from woolly mammoths to scimitar cats uncovered by mining. We will also discuss the new understanding provided by paleogenomic reconstructions of permafrost-preserved ancient DNA.

Dempster Highway Organized by Sandra MacDougall, Fabrice Calmels, Chris Burn, Cathy Brais, Gladys Netro, and Georgette McLeod

This field excursion will travel from Dawson to Chapman Lake Airstrip at km 124 on the Dempster Highway and back. The excursion will visit sites with problematic winter drainage management, reappearing sinkholes, the Chapman Lake erosion issue, and degrading tundra polygons. We will examine ground water effects on permafrost thickness. The excursion will visit Tombstone Territorial Park.

Top-of-the-World Highway Organized by Antoni Lewkowicz

This half-day excursion will cross the Yukon River by ferry and travel along the Top-of-the-World Highway providing panoramic views of the never-glaciated terrain, from the boreal forest in the Yukon River valley floor (320 m above sea level) to alpine tundra (1220 m asl). Climatic gradients will be discussed, emphasizing the influence of air temperature inversions on permafrost distribution below treeline.

All these excursions will be jointly led by First Nations Citizens and the organizers.

List of confirmed program contributors (or alternates)

Vuntut Gwitchin First Nation

Chief Dana Tizya-Tramm Erika Tizya-Tramm

Tr'ondëk Hwëtch'in First Nation

Chief Roberta Joseph

Deputy Chief Simon Nagano

Jim Taggart

Katie Fraser

Fiona Nastasi

Gladys Netro

Georgette McLeod

Wayne Potoroka

Debbie Nagano

Bill Kendrick

First Nation of Na-Cho Nyak Dun

Chief Simon Mervyn

Josée Tremblay

Joella Hogan

Adrienne Hill

Stephan Walke

Council of Yukon First Nations

Mathieya Alatini

Government of Yukon

Louis-Philippe Roy

Derek Cronmiller

Sandra MacDougall

Cathy Brais

Fabrice Calmels

Mark O'Donoghue

Elizabeth Hall

Robin Chambers

Priyank Thatte

Village of Mayo

Trevor Ellis

Canadian Permafrost Association

Kumari Karunaratne

Lukas Arenson

Chris Burn

Duane Froese

Antoni Lewkowicz

Pascale Roy-Léveillée

Ed Hoeve

Steve Kokeli

Jurjen van der Sluis

Chris Stevens

Rvlev Beddoe

Stephan Gruber

Don Hayley

Jocelyn Hayley

Guy Doré