

The Circumpolar Students' Association proudly presents the 26th annual student research conference:

# Northern Research Day 2022

March 22nd and 23rd



Featuring keynote speaker: **Norma Kassi**,  
co - Research Director of the Canadian  
Mountain Network

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For more information & to register please visit:  
<https://circumpolarstudentassociation.weebly.com/northern-research-day-2022.html>

Thank you to UAlberta North and the Kule Institute for their support:



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	<b>Speaker presentation</b>
	<b>Oral presentations</b>
	<b>Poster presentations</b>
	<b>Break</b>

## March 22nd

Time (MST)	Event	Name	Program	Title
10:00 – 11:00	<b>Keynote Speaker</b>		Norma Kassi	
11:00 – 11:15 AM	<b>Coffee Break</b> – hot drinks and light luncheon at the UAlberta North house			

### Session 1

11:15 AM – 12:30 PM

11:15 – 11:30 AM	William Wadsworth	Institute of Prairie and Indigenous Archaeology /Department of Anthropology.	Footprints in the forest: Using archaeology and remote sensing to document the forced removal of ACFN from Wood Buffalo National Park.	
11:30 – 11:45 AM	Rebecca Bourgeois	Department of Anthropology, Faculty of Arts.	Welcoming belongings home: the first steps in a community-driven archival and repatriation project.	
11:45 AM – 12:00 PM	Juliette Bedard	Department of Anthropology, Faculty of Arts.	Repatriation of Indigenous human remains in Alberta: a critique.	
12:00 – 12:15	Jennifer Laughton	Department of Anthropology, Faculty of Arts, University of Alberta	One [tooth type] to rule them all... Reassessing the use of local and legacy collections for research during the pandemic	
12:15 – 12:30 PM	Chuanshuai Fu	Department of Earth and Atmospheric Science, Faculty of Science, University of Alberta	Modelling the Atlantic Water along its poleward pathway into and through the Arctic Ocean.	
12:30 – 1:00 PM	<b>Lunch break</b> – hot drinks and food at the UAlberta North house			

**Session 2**  
1:00 – 1:45 PM

1:00 – 1:15 PM	Jerico Fiestas Flores	Department of Resource Economics and Environmental Sociology, Faculty of ALES.	A Dynamic Economic Analysis of oil sands process-affected water (OSPW) treatment alternatives in Alberta.
1:15 – 1:30 PM	Peter Anto Johnson	Faculty of Medicine & Dentistry, University of Alberta	Treading on thin ice: biological, socioeconomic, and environmental effects of the pandemic in the Arctic
1:30 -1:45 PM	Tahya Weiss – Gibbons	Department of Earth and Atmospheric Sciences, Faculty of Graduate Studies	Impact of runoff forcing on ocean model simulations in the Pan-Arctic region.
1:45 – 2:00 PM	<b>Coffee Break:</b> coffee, tea, and snacks provided at UAlberta North		
2:00 – 3:00 PM	<b>Panel Discussion</b> Dr. Heidi Swanson, Dr. Sean Lessard, Dr. Brenda Parlee		Meaningful collaboration in Northern Research

**Poster Session**  
3:00 – 4:00 PM

Mariah Casmey	University of Alberta, Faculty of Agricultural, Life & Environmental Sciences	Mismatch in Adaptations: Will boreal plant species genetic adaptations of spring phenology to local climates be disrupted by climate change?
Ming Cao	Department of Renewable Resources, University of Alberta	Wildfire had little effect on stream dissolved organic carbon during drought
Garrett Rawleigh	University of Alberta, Faculty of Science, Department of Renewable Resources	Winter foraging site selection by the Ronald Lake Wood Bison Herd.
Michelle Knaggs	University of Alberta, Faculty of Agricultural, Life, and Environmental Sciences, Department of Renewable Resources	Do boreal peatlands reduce the effects of drought on adjacent upland tree growth?
Alex Lanti-Traikovski	University of Alberta, Faculty of ALES, Department of Renewable Resources	Factors influencing post-fire regeneration in peatland-adjacent forests

## March 23rd

Time (MST)	Event	Name	Program	Title
<b>Session 1</b> 10:00 – 11:00 AM				
10:00 – 10:15 AM	Marina Lazic	University of Alberta		Environmentally friendly polymer detection using fluorescence proteins
10:15 – 10:30 AM	Dilrukshi Kombala Liyanage	Department of Agricultural, Food, and Nutritional Sciences, Faculty of ALES		Genome wide association study for Canadian short-season soybean cultivars for plant physiological parameters under drought stress
10:30 – 10:45 AM	Kasia Staniszezwska	Department of Earth and Atmospheric Sciences,		Why are mercury concentrations so high in the Yukon River? A snapshot of river chemistry across the basin.
10:45 – 11:00 AM	Amro M. Soliman	Department of Biological Sciences, Faculty of Science, University of Alberta.		Isolation of Skin Leukocytes Uncovers Phagocyte Immune Responses During Induction and Resolution of inflammation in Aeromonas veronii Cutaneous infection
11:00 – 11:15 AM	<b>Coffee break</b> - Coffee, Tea, and snacks provided at UAlberta North house			
<b>Session 2</b> 11:15 – 12:15 PM				
11:15 – 11:30 AM	Scott Cocker	Department of Earth and Atmospheric Science, Faculty of Science, University of Alberta		Faunal remains from Late Pleistocene fossil arctic ground squirrel ( <i>Urocitellus parryii</i> ) middens, Yukon Territory, Canada
11:30 – 11:45 AM	Marina Taskovic	Department of Biological Science, Faculty of Science, University of Alberta		Examining microbial functional responses to permafrost thaw slump activity from streams on the Peel Plateau, NT
11:45 – 12:00 PM	Kali McDougall	Department of Geography, Faculty of Social Science, University of Victoria		Synoptic drivers of Northern Alberta River flow and ice-jam flooding in the Peace-Athabasca Delta.
12:00 – 12:15 PM	Rebecca M. Hicks	Department of History, Classics, and Religion, Faculty of Arts, University of Alberta		Southern vision as ideology in publicity campaigns concerning the Port Radium 'Radium Rush' (1929-1932)
12:15 – 1:15 PM	<b>Lunch</b> – Pizza and drinks provided at U Alberta North house			

**Session 3**

**1:15 – 2:15 PM**

1:15 – 1:30 PM	Sara Chitsaz	Department of Resource Economics and Environmental Sociology, Faculty of ALES, University of Alberta	Fort Nelson First Nation-owned Tu Deh-Kah Geothermal Project: A case study of community perceptions & support
1:30 – 1:45 PM	Rachel Cassie	School of Public Health (Epidemiology stream), Faculty of Graduate Studies and Research, University of Alberta	Using community-led research to explore how to research sensitive topics among youth in the Hamlet of Pangnirtung
1:45 – 2:00 PM	Lauren Thompson	Department of Renewable Resources, Faculty of ALES, University of Alberta	Methylmercury in thawing peatlands on a trophic gradient in boreal Western Canada.
2:00 – 2:15	Christopher Schulze	Faculty of ALES	Effects of Warming, Wildfire, and Permafrost Thaw on Carbon Dioxide Fluxes from Boreal Peat Landscapes in northwestern Canada

**Closing Remarks**

**2:15 – 2:30 PM**