

ALES Graduate Research Symposium

March 24 & 25, 2022





Thursday, March 24, 2022 – Zoom

Time (MT)	Agenda					
9:00 – 9:15 AM	Opening Remarks					
Session 1: REES & HECOL oral presentations						
9:15 – 9:30 AM	Meghan Lim	Evaluating the impact of CCAFS CSA intervention on food security	REES			
9:30 – 9:45 AM	Jerico Fiestas Flores	Understanding intergenerational trauma in indigenous communities: The case of Canada and residential school	REES			
9:45 – 10:00 AM	Break					
10:00 – 10:15 AM	Sara Chitsaz	Fort Nelson First Nation-Owned Tu Deh-Kah Geothermal Project: A Case Study of Community Perceptions & Support	REES			
10:15 – 10:30 AM	Laura Woodman	Supporting Quality and Longevity in Alberta's Family Day Homes	HECOL			
10:30 – 11:00 AM	Guest speaker: Mr. T consciences and indu	yrone Butler (Critical thinking and Problem solvi stry)	ng in			
	Session 2	2: AFNS oral presentations				
11:00 – 11:15 AM	Aldo Ríos Martínez	Characterizing the arthropod community and ground beetle diet in canola agroecosystems in central Alberta	AFNS			
11:15 – 11:30 AM	Shengjuan Li	Characterization of clubroot disease symptoms in Arabidopsis using the peat-based media and partially-hydroponic assay systems	AFNS			
11:30 – 11:45 AM	Dilrukshi Kombala Liyanage	Genome-wide association reveals the genetic basis of physiological parameters in soybean under drought stress	AFNS			
11:45 – 12:00 PM	Danielito Dollete	Effect of drought stress on nodulation, plant growth, soil nitrogen availability, and nitrogen fixation in alfalfa	AFNS			
12:00 – 12:05 PM	Break					
12:05 – 12:20 PM	Peineng Zhu	Preparation of transparent and thermo- reversible pea protein gels and their potential applications as gelatin alternatives	AFNS			
12:20 – 12:35 PM	Bingxin Hai	Upgrading the Lipid-to-Hydrocarbon Technology to Sustainable Aviation Fuel: a route to net zero GHG emissions	AFNS			



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12:35 – 12:50 PM	Dagem Haddis	Hydrothermal and Cellulase Treatment for	AFNS
		Co-production of Cellulose Nanocrystals and	
		Fermentable Sugars	
12:50 – 1:05 PM	Kallum McDonald	Genetic Engineering of Carbon Flow Arabidopsis Seeds to Accelerate Breeding for High Protein Canola	AFNS
1:05 – 1:20 PM	Kanishka Senevirathna	Investigation of the dispersal of diamondback moth (Plutella xylostella) across North America	AFNS
1:20 – 1:30 PM	Closing Remarks		



Friday, March 25, 2022 - Zoom

Time (MT)	Agenda					
9:00 – 9:05 AM	Opening Remarks					
9:05 – 9:15 AM	Speaker: Ibironke Popoola (ALES & Alberta Innovates)					
9:15 – 10:00 AM	ALES virtual career café					
Session 3: RENR oral presentations						
10:00 – 10:15 AM	Andrii Oleksandrenko	Importance of site selection for studying trace elements and fallout radionuclides	RENR			
10:15 – 10:30 AM	Beckett Stark	Rare Plant Mitigation During Pipeline Construction on the Northern Great Plains	RENR			
10:30 – 10:45 AM	Na Chen	Trace elements in the acid soluble ash fraction of Sphagnum moss: Surrogate for atmospheric deposition of sub-micron aerosols within the Athabasca Bituminous Sands region	RENR			
10:45 – 11:00 AM	Sunny Choi	Chronic trace element toxicity of Lake Miwasin water and sediment to Daphnia magna.	RENR			
11:00 – 11:15 AM	Yu Wang	AF4-ICP-MS as a powerful tool to resolve colloidal trace elements in bog waters	RENR			
11:15 – 11:30 AM	Dulani Kandage	Influence of Concentration and Speciation of Trace Elements in Soil Solution on Plant Uptake and Accumulation by Hordeum Jubatum L.	RENR			
11:30 – 11:35 AM	Break					
11:35 – 12:25 PM	Poster presentations					
12:25 – 12:30 PM	Closing Remarks					