



International Network for Alpine Research Catchment Hydrology (INARCH)

2026 Annual INARCH Workshop

University of Calgary Kananaskis Centre, Alberta, Canada

September 8–10, 2026

Local Host: Distinguished Professor John Pomeroy, University of Saskatchewan

Workshop Agenda

Monday, September 7		Arrival in Kananaskis
Participants arrive at the Kananaskis Centre in the late afternoon or evening		
7:00 PM	Dinner for those who have arrived	
Tuesday, September 8		Workshop Day-1
7:00–8:30 AM	Breakfast	
8:30–9:00 AM	John Pomeroy, Ignacio López-Moreno, Chris DeBeer	Introduction to and status of INARCH Common Observing period Experiment (COPE) <i>Hydrological Processes and Earth System Sciences Data</i> special issues
Observations, Remote Sensing, Field Methods, and Observatories		
9:00–9:20 AM	Hamish Pritchard	Novel snowfall measurements and what they tell us about our understanding of mountain water resources
9:20–9:40 AM	Caroline Aubry-Wake	Establishing the Southern Alberta Mountain Observatory for integrated headwater science
9:40–10:00 AM	John Pomeroy	Canadian Rockies Hydrological Observatory of GWFO – status, findings, operations
10:00–10:20 AM	Richard Petrone	The effects of chinook (foehn) winds on alpine forest transpiration
10:20–10:50 AM	Coffee break and poster viewing	
11:10–11:30 AM	Ignacio López-Moreno	From hydrological to ecohydrological monitoring in alpine basins: assessing the impacts of cryosphere degradation
11:30–11:50 PM	Esteban Alonso	Recent advances in snow data assimilation in forests
11:50–12:10 PM	Adrián Melón-Nava	Seasonal Snow Cover Monitoring and Snowmelt Detection in the Pyrenees Using Sentinel-1/2 and MODIS in Google Earth Engine
12:10–1:30 PM	Lunch	

Integrated Observations and Modelling		
1:30–1:50 PM	Tim Schneider	H2US: A collaboratory for mountain hydroclimate science
1:50–2:10 PM	Ethan Gutmann	Alpine Catchment Snow Distributions, Mountain Winds, and AI Modeling
2:10–2:30 PM	Di Liu	Hydrologic modeling at the source of Yellow River Basin on Tibetan Plateau
2:30–2:50 PM	Dhiraj Pradhananga	Building integrated high-mountain observations and modelling capacity in the Nepal Himalaya: HiM-DATA and preliminary CRHM applications
2:50–3:10 PM	Zhongbo Yu	Accelerate now: water, culture, action
3:10–3:40 PM	Refreshment break and poster viewing	
3:40–4:00 PM	Masaki Hayashi	Hydrogeological functions of interconnected aquifers in an alpine headwater catchment
4:00–4:20 PM	Jesús Revuelto	Scale breaks in snow depth distribution and their topographic controls: insights from remote sensing and CHM
4:20–4:40 PM	Sebastian Krogh	Can/should we use ERA5-Land forcing data to represent the mountain snowpack in the Andes Cordillera?
4:40–5:00 PM	James McNamara	Plant–soil water relationships across the rain–snow transition zone
5:00–6:00 PM	Refreshments and Social	
6:00 PM –	Dinner	
Wednesday, September 9		Workshop Day-2
7:00–8:30 AM	Breakfast	
Process Representations, Data Assimilation, Modelling, and Prediction		
8:30–8:50 AM	Richard Essery	Coupled energy balance, mass balance and hydrological modelling in deglaciating catchments
8:50–9:10 AM	Discussion on the Langtang flood, 2026	
9:10–9:30 AM	Terri Whitehead, Tricia Stadnyk	From sea to sky, across the continental divide
9:30–9:50 AM	Marc Pons	Forest-snow relationships and implications for modelling snowpacks in mountains
9:50–10:10 AM	Binbin Wang	Comprehensive observations and modeling of lake–atmosphere interaction processes over high-elevation lakes on the Tibetan Plateau
10:10–10:40 AM	Coffee break and poster viewing	
10:40 AM – 5:00 PM	Participants will tour the Fortress Mountain Research Basin and possibly other sites in the Kananaskis region. There will be a bag lunch.	
6:00–7:00 PM	Dinner at Kananaskis Centre and group photo outside, and then a bonfire at John Pomeroy’s home (8 Spring Creek Crescent) in Canmore (Departure at 7:00 PM)	

Thursday, September 10		Workshop Day-3
7:00–8:30 AM	Breakfast	
Poster Session		
8:30–8:40 PM	5 min poster summaries	
Process Representations, Data Assimilation, Modelling, and Prediction		
8:40–9:00 AM	Donovan Allum	CHM development and evaluation with CRHO data and AI-snow cover products
9:00–9:20 AM	Ching Yu	Assessment and improvement of CHM blowing snow representation for alpine environments
9:20–9:40 AM	Tim Link	Challenges in defining “effectively no snow”
9:40–10:00 AM	Miguel Moraga	Exploring the capacity of high-resolution, snow-drift permitting modeling across the Andes Cordillera
10:00–10:20 AM	Xing Fang	Impact of a snow drought on the hydrology of headwater basins in the Canadian Rockies
10:20–10:25 AM	David Barret	WG5 Activities for the Decade of Action for Cryospheric Sciences
10:25–10:40 AM	Discussion time	
10:40–11:10 AM	Coffee break and poster viewing	
INARCH COPE wrap-up, data management, science activities (Hybrid session on Zoom)		
Join Zoom Meeting:		
https://usask-ca.zoom.us/j/97081956649?pwd=u1FRup7dldUwa0KCauIKQ4TwLOLI0t.1		
11:10–11:25 AM	Stephen O’Hearn, Chris DeBeer	Common Observing Period Experiment (COPE) data management and status
11:25–11:50 AM	Discussion on COPE data management, modelling diagnoses and comparisons, other collective science activities, and possibilities for another phase of INARCH	
11:50–12:10 PM	John Pomeroy, Ignacio Lopez-Moreno	Workshop closing remarks and statement
12:10 PM–	Lunch and departure	
List of Posters		
Dhiraj Pradhananga	High-altitude monasteries for data acquisition, tracking and awareness (HiM-DATA)	
Dhiraj Pradhananga	Enhancing climate resilience in South Asia and China: Predicting precipitation shifts and their impacts for disaster risk reduction and resource security	