



**TUE
JUL
9**

Snow, Climate Change, and Humans



Steven Fassnacht

PhD, P. Eng

Professor of Snow Hydrology
University of Colorado
steven.fassnacht@colostate.edu

1:00 PM - 2:30 PM EST

CPH 1319

Lunch will be provided

For more information please contact
nadine.ibrahim@uwaterloo.ca

TurkstraTalks is a distinguished speaker series that brings forefront city experts into our classrooms to revitalize our urban perspectives and to motivate our connections to cities.



UNIVERSITY OF WATERLOO
FACULTY OF ENGINEERING
Department of Civil &
Environmental Engineering

Snow, Climate Change, and Humans

Tuesday, July 9
1:00 PM - 2:30 PM EST



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We live in urban areas, yet we often recreate in nature. A significant portion of the global population enjoys and/or participates directly or indirectly in snow- and ice-related entertainment, recreation, and tourism. This includes a spectrum of activities, such as watching or playing winter sports, ice fishing, and whitewater rafting in snowmelt runoff. Due to climate change, access to such activities is decreasing. Recent and possible future changes will be presented for locations in Colorado, USA and other parts of the world.

Dr. Steven R. Fassnacht is a Professor of Snow Hydrology at Colorado State University in Fort Collins, Colorado, U.S.A., where he has been since 2002. His research examines the interaction of snow, water, climate change, and the human association with these topics. He has published extensively on the spatial and temporal variability of snowpack processes, the implications on water resources management, and human observations of changes in climate and water resources. He received his PhD from the University of Waterloo in 2000 working with Professors Ric Soulis and Nick Kouwen on weather radar for snowpack modeling.

In April of this year, he completed a Fulbright Global Scholar Award, being a Fulbright Visiting Research Scientist with the Instituto Geológico y Minero de España in Granada, Spain and a Fulbright Visiting Professor at the Universidad de Playa Ancha in Valparaíso, Chile. In October 2022, he was a Japanese Society for the Promotion of Science Short-term Fellow with the Japan Agency for Marine-Earth Science and Technology in Yokohama, Japan. He was a Visiting Professor at the Georg-August-Universität Göttingen, Germany in 2016-2017, and he has been a Fellow of the Cooperative Institute for Research in the Atmosphere since 2014.

He is very passionate about learning and mentoring, having advised 43 undergraduate researchers, 10 undergraduate theses, 40 Masters' theses, and PhD 10 dissertations. He is currently advising 2 PhD and 5 MS students. He was the recipient of the Harry E. Troxell Distinguished Service to Students Faculty Award in 2023, the Natural Resources Ecology Laboratory Graduate Student Advisor of the Year in 2013, 2018, and 2021, and the Confucius Institute at Colorado State University Outstanding Faculty Award in 2018. He was a co-recipient of the Warner College of Natural Resources Recognition of Creative, Innovative, and Impactful Instruction During the Pandemic in 2020 and the Colorado State University Provost's N. Preston Davis Award for Instructional Innovation in 2017.

He is the founding Editor-in-Chief of the journal *Glaciers*, an editorial board member of the journal *Earth*, an Associate Editor for *Frontiers of Earth Science*, and on the Scientific Advisory Board of *Geographical Research Letters*. In the past, he was an Associate Editor for *Water Resources Research*. In 2009, he was the president of the Eastern Snow Conference.

What is the TurkstraTalks Speaker Series?

TurkstraTalks is a distinguished speaker series that brings cities into our classrooms to revitalize our urban perspectives and to motivate our connections to cities.

The Turkstra Chair in Urban Engineering, [Prof. Nadine Ibrahim](#), invites experts from professional practice, government, and academia to present a talk on the state of the art in their field. Students have a chance to broaden their horizons in urban engineering, and faculty have an opportunity to engage in the urban discourse together.