



# ATOC COLLOQUIUM

## Welcome!

Please join us for the ATOC colloquium on **November 2<sup>nd</sup>, 2018** from **11:00am-noon** in **SEEC N125** featuring CSU Professor and CU alumnus **Daniel McGrath**. Come early for coffee starting at 10:45am, and lunch will be served after!

## How Much is Really Out There? Forays into Measuring Snow Accumulation on Glaciers and Implications for Glacier Mass Balance

Quantifying glacier mass balance is dependent on accurately resolving the spatial and temporal distributions of snow accumulation and snow/ice ablation. Significant advances in our knowledge of ablation processes have improved observational and modelling capacities, yet comparable advances in our understanding of the distribution of snow accumulation have not kept pace. In this seminar, I will present recent work using ground-penetrating radar/terrestrial LiDAR/statistical models to measure and model spatiotemporal patterns in snow accumulation on glaciers in Alaska and Colorado. I will discuss the implications of these patterns for the mass balance of these glaciers (both now and in the future) and for how we, as scientists, measure this mass balance.



## About the ATOC Colloquium

The Department of Atmospheric and Oceanic Sciences Colloquium will be held **every other Friday** from **11:00am-noon** in **SEEC N125**. Colloquia will alternate between the following formats: (A) Full-length talk by a faculty member or invited speaker, (B) Three conference-length talks by graduate students. If you would like to nominate a speaker (including self), please email the ATOC Colloquium Committee Chair, Prof. Jan Lenaerts ([jan.lenaerts@colorado.edu](mailto:jan.lenaerts@colorado.edu)). Please visit [www.colorado.edu/atoc/colloquium](http://www.colorado.edu/atoc/colloquium) for further details and the upcoming schedule.