



Pacific Institute *for the*  
Mathematical Sciences

**FREE** Public Event

Join us for coffee at 5:00 pm in the Bob Wright Centre Lobby, talk at 5:30 pm  
University of Victoria, Bob Wright Building, Flury Hall

# PIMS UVic

## Thunderstorms in the Present, Past and Future

Wednesday, March 23rd | 5:30pm

**Professor Courtney Schumacher**

Texas A&M University, College of Geosciences  
Department of Atmospheric Sciences

What do thunderstorms look like on the inside?

Were they any different 30 to 50 thousand years ago?

How might they change in the next 100 years as global temperatures continue to rise?

The presentation will start with how a thunderstorm looks in 3-D using radar technology and lightning mapping arrays. We will then travel tens of thousands of years into the past using chemistry analysis of cave stalactites in Texas to see how storms behaved as the climate underwent large shifts in temperature driven by glacial variability. I will end the talk with predictions of how lightning frequency may change over North America by the end of the century using numerical models run on supercomputers, and the potential impacts to humans and ecosystems.

For more information, contact [pims@uvic.ca](mailto:pims@uvic.ca)

### COVID-19 PRECAUTIONS

While mask wearing has now become a matter of personal choice, on campus we strongly encourage you to continue wearing a mask in indoor spaces where you may be in close proximity to others. Please continue to follow public health guidance, including doing daily health checks and staying home if sick. Vaccination continues to provide the best protection from the more serious effects of COVID-19.