

ATS/CIRA Colloquium

Paul DeMott

from Colorado State University

Hosted by Sonia Kreidenweis

3 p.m. Friday, Sept. 8

ATS 101 and Zoom

**Perspectives From a Career in Ice Nucleation
Research at Colorado State University**

I will share some personal and scientific perspectives on a career and field of study that is the only one I have known in 44 years since leaving the state of my birth. Atmospheric ice nucleation was an enigma when I arrived at Colorado State University, and in many ways it remains so. However, because of its reach and implications for climate and water resources, it has our full attention now and progress is occurring within a large global community of researchers using new instrumentation. This seminar will have four basic parts covering aspects of studies I helped pursue, around (1) novel ice nucleation research on cloud seeding aerosols; (2) developing understanding of cirrus ice nucleation processes; (3) rejuvenating measurements (and confidence therein) of natural and anthropogenic ice nucleating aerosols; and (4) vigorous pursuits to define and quantify atmospheric ice nucleating particle (new terminology) sources and explore their implications. I will end with a few words on the frontier topics and outlook for the future.

Colloquia page: atmos.colostate.edu/colloquia