

2018 Telluride Workshop: **Aerosols and Clouds – Connections from the Laboratory to the Field to the Globe**

ORGANIZERS: Ryan Sullivan, Paquita Zuidema, Philip Stier, Tristan L'Ecuyer

LOCATION: Telluride Intermediate School, 725 W Colorado Ave Telluride CO, 81435

	Sunday July 29	Monday July 30	Tuesday July 31	Wednesday August 1	Thursday August 2	Friday August 3
8:30 am		Breakfast (8:15 am)	Breakfast	Breakfast	Breakfast	Breakfast
8:45 am		Welcome				
9:00 am		Pablo Saide	Group Hike	Leighton Regayre	Group Hike	Paquita Zuidema
9:30 am		Graham Feingold		Stephanie Fiedler		Matt Christensen
10:00 am		Break		Break		Depart
10:30 am		Lynn Russell		Jeff Pierce		
11:00 am						
11:30 am						
12:00 pm						
12:30 pm		Lunch at TSRC	Lunch on Own	Lunch at TSRC	Lunch on Own	
1:00 pm						
1:30 pm		Annica Ekman	Sue van den Heever	Meloe Kacenelebogen	Paul DeMott	
2:00 pm						
2:30 pm		Ed Gryspeerdt	Philip Stier	Tristan L'Ecuyer	Zamin Kanji	
3:00 pm						
3:30 pm		Break	Break	Break	Break	
4:00 pm		Claudia Mohr	Allan Bertram	Will Cantrell	Nicole Riemer	
4:30 pm						
5:00 pm	Arrival	Shuka Schwartz	Ryan Sullivan	Ben Murray	Markus Petters	
5:30 pm						
6:00 pm	"Meet and Greet" at Phoenix Bean Dinner at High Pie Pizzeria, ~6-9 pm	Dinner on Own		TSRC Picnic	Dinner on Own	
6:30 pm			Optional: Town Talk			
7:00 pm			Dinner on Own			
7:30 pm						

Talk Titles

Pablo Saide: Recent findings on aerosol-cloud-radiation interactions on the southeast Atlantic.

Graham Feingold: Cloud size distribution evolution along slow manifolds in shallow cumulus cloud fields

Lynn Russell: Revisiting the CCN Budget Part of the CLAW Hypothesis, This Time with Numbers

Annica Ekman: Formation and survival of mixed-phase Arctic clouds – what is the importance of aerosols?

Ed Gryspeerd: Aerosols and the ice crystal number concentration - What can models tell us about observations?

Claudia Mohr: Attempts from laboratory and field to connect aerosol properties and clouds

Shuka Schwarz: Do We See the Fingerprints of Ice-forming Processes on Black Carbon Aerosol Size Distributions?

Sue van den Heever: Dust Transport in Tropical and Mid-Latitude Coastal Regions

Philip Stier: How strong are existing observational constraints on the global aerosol distribution?

Allan Bertram: Measurements of the concentrations, sources, and properties of ice nucleating particles in the sea-surface microlayer and ambient atmosphere

Ryan Sullivan: New Surprises in Ice Nucleating Particles Emitted from Biomass Burning

Leighton Regayre: Aerosol ERF uncertainty is partially constrained by aerosol measurements, and aerosol-cloud

Stephanie Fiedler: Using MACv2-SP for bridging the gap between observations and modelling

Jeffrey Pierce: The aging of smoke aerosol size distributions: Dominant processes and radiative impacts
Relationships

Meloe Kacenenbogen: Using A-Train Satellite Sensors to Constrain the Uncertainties in Global Direct Aerosol Radiative

Tristan L'Ecuyer: *Actively* exploring aerosol direct and indirect effects on global scales

Will Cantrell: Insights into aerosol-cloud coupling from laboratory experiments in a turbulent environment

Ben Murray: Heterogeneous ice nucleation: from microscope to model

Paul DeMott: Ice nucleating particles over marine regions

Zamin Kanji: Aerosol particles as ice crystal seeds in the troposphere: From nano-pores to clouds

Nicole Riemer: Multi-Scale Modeling of Aerosol Reactivity and Dynamics Using Particle-Resolved Methods

Markus Petters: Aerosol viscosity and equilibration time scales

Paquita Zuidema: Where are we on understanding how absorbing-aerosols interact with marine clouds?

Matt Christensen: Cloud contamination in satellite products enhances aerosol indirect forcing estimates
Effects in Clear-Skies and Above Clouds