

## TSRC New Insights into Gas-phase Atmospheric Chemistry AGENDA

**Telluride Intermediate School at 721 West Colorado Ave Telluride CO 81435**

Organizers: Steve Brown, NOAA/CU & Kerri Pratt, U.Michigan

TSRC Hosts: Mark Kozak (970-708-4426) & Cindy Fusting (970-708-5069)

Lodging: Sara Friedberg (970-708-0622)

**Sunday, July 28, 2024 5:00pm to 6:30pm**

All-Telluride Science Meet and Greet

Location: Alibi – 157 S. Fir Street

*This is a good chance to meet up with fellow participants before your meeting. A staff member will be on hand to welcome you and distribute badges.*

**Monday, July 29, 2024**

<b>8:00 am – 12:00 pm</b>	<b>FREE TIME (Breakfast available at TSRC starting at 7:15 am)</b>	
<b>12:00 pm – 1:00 pm</b>	<b>LUNCH at TSRC (Joint with Organic Aerosol Workshop)</b>	
<b>1:00 pm – 1:10 pm</b>	Opening remarks by Steve Brown & Kerri Pratt	
<b>1:10 pm – 1:55 pm</b> Discussion Leader: <a href="#">Steve Brown</a>	Ron Cohen	Characterizing a dense AQ sensor network: calibration and minimum emission rate detection
<b>1:55 pm – 2:40 pm</b> Discussion Leader: <a href="#">Ron Cohen</a>	Meredith Hastings	Another low-cost sensor network? Findings from the Breathe Providence Project
<b>2:40 pm – 2:50 pm</b>	<b>BREAK</b>	
<b>2:50 pm – 3:35 pm</b> Discussion Leader: <a href="#">Meredith Hastings</a>	Fred Winiberg	The importance of water vapor in tropospheric chemical kinetics
<b>3:35 pm – 4:20 pm</b> Discussion Leader: <a href="#">Fred Winiberg</a>	Hendrik Fuchs	Nighttime oxidation of isoprene by NO <sub>3</sub> : Isomerization reactions of nitrate peroxy radicals and formation of epoxide products
<b>4:20 pm – 4:30 pm</b>	<b>BREAK</b>	
<b>4:30 pm – 5:15 pm</b> Discussion Leader: <a href="#">Hendrik Fuchs</a>	Brian McDonald	What happens when an atmospheric chemistry model dies

**Tuesday, July 30, 2024**

<b>8:00 am – 12:00 pm</b>	<b>FREE TIME (Breakfast available at TSRC starting at 7:15 am)</b>	
	<i>Tentative Joint Morning Hike with Organic Aerosol Workshop</i>	
<b>12:00 am – 1:00 pm</b>	<b>LUNCH at TSRC (Joint with Organic Aerosol Workshop)</b>	
<b>1:05 pm – 1:50 pm</b> Discussion Leader: <a href="#">Kerri Pratt</a>	Lucy Carpenter	Air/sea chemistry and gas exchange
<b>1:50 pm – 2:35 pm</b> Discussion Leader: <a href="#">Lucy Carpenter</a>	Becky Alexander	The role of acidity in the abundance of tropospheric reactive halogens
<b>2:35 pm – 2:45 pm</b>	<b>BREAK</b>	
<b>2:45 pm – 3:30 pm</b> Discussion Leader: <a href="#">Becky Alexander</a>	Rainer Volkamer	Chemistry of halogens and oxidized organic carbon at interfaces: field observations & laboratory experiments
<b>3:30 pm – 4:15 pm</b> Discussion Leader: <a href="#">Rainer Volkamer</a>	Kerri Pratt	A Polar Bear Walks into an Oilfield: What's in the Air?
<b>4:15 pm – 4:25 pm</b>	<b>BREAK</b>	
<b>4:25 pm – 5:10 pm</b> Discussion Leader: <a href="#">Phil Stevens</a>	Paul Shepson	A Tale of Two Mechanisms: Polar Multi-phase Tropospheric Bromine Chem
<b>5:10 - 6:30 pm</b>	<b>FREE TIME</b>	
<b>6:30 pm – 7:30 pm</b>	<p style="text-align: center;"><b>Telluride Science Town Talk</b> Location: Telluride Conference Center in Mountain Village Cash Bar, Doors Open at 6:00pm Speaker: Richard Lowenberg, The Nature of Information Organizer of Telluride Arts &amp; Sciences 2024</p>	

<b>Wednesday, July 31, 2024</b>		
<b>8:00 am – 12:40 pm</b>	<b>FREE TIME (Breakfast available at TSRC starting at 7:15 am, Lunch on your own)</b>	
	<i>Tentative Joint Morning Hike with Organic Aerosol Workshop</i>	
<b>12:40 pm – 1:25 pm</b> Discussion Leader: <a href="#">Paul Shepson</a>	Jonathan Raff	Unrecognized Pathways to Tropospheric Re-NO <sub>x</sub> -ification
<b>1:25 pm – 2:10 pm</b> Discussion Leader: <a href="#">Jonathan Raff</a>	Anna Novelli	Investigating ozone formation in a changing urban environment
<b>2:10 pm – 2:20 pm</b>	<b>BREAK</b>	
<b>2:20 pm – 3:05 pm</b> Discussion Leader: <a href="#">Anna Novelli</a>	Sally Pusede	Observing and informing decision-making around air pollution inequalities using satellites: NO <sub>2</sub> , CO, and NH <sub>3</sub>
<b>3:05 pm – 3:50 pm</b> Discussion Leader: <a href="#">Sally Pusede</a>	Dylan Millet	VOC measurements from CrIS: What else besides isoprene?
<b>3:50 pm – 4:00 pm</b>	<b>BREAK</b>	
<b>4:00 pm – 4:45 pm</b> Discussion Leader: <a href="#">Dylan Millet</a>	Phil Stevens	OH NO! NO <sub>x</sub> this again!
<b>4:45 - 5:30 pm</b>	<b>BREAK</b>	
<b>5:30 pm – 7:30 pm</b>	<b>TSRC BBQ PICNIC</b> Telluride Science tent outside Workshop facility	
<b>Thursday, August 1, 2024</b>		
<b>7:15 am – 8:30 am</b>	<b>Breakfast at TSRC</b>	
<b>8:45 - 9:30 am</b> Discussion Leader : <a href="#">Brian Macdonald</a>	Cora Young	Useful and concerning low-yield acid products of atmospheric oxidation
<b>9:30 am - 10:15 am</b> Discussion Leader: <a href="#">Cora Young</a>	Lee Murray	Old Insights Into Gas-Phase Atmospheric Chemistry
<b>10:15 am - 10:30 am</b>	<b>BREAK</b>	
<b>10:30 am -11:15 am</b> Discussion Leader: <a href="#">Lee Murray</a>	Ellie Browne	VOC and reactive N chemistry in an agricultural environment
<b>11:15 am - 12:00 pm</b> Discussion Leader: <a href="#">Ellie Browne</a>	Jennifer Murphy	The Dawning of the Age of Ammonia
<b>12:00 pm – 3:45 pm</b>	<b>Free Time (LUNCH on own)</b>	
	<b>JOINT LECTURES WITH THE ORGANIC AEROSOL WORKSHOP</b> (Gallery Room of the new Telluride Innovation Center at 300 S. Townsend St.)	
<b>3:45 pm – 4:30 pm</b> Discussion Leader: <a href="#">Manjula &amp; Manabu</a>	Tim Bertram	Chemical paths to carbonyl sulfide: the low-NO <sub>x</sub> OH-oxidation of methanethiol, dimethyl sulfide, dimethyl disulfide, and carbon disulfide in the marine boundary layer
<b>4:30 pm – 5:15 pm</b> Discussion Leader: <a href="#">Steve &amp; Kerri</a>	Havala Pye	Evolution of reactive organic carbon and its potential health risk in wildfire smoke
<b>6:30 pm – 8:00 pm</b>	<b>Pizza Party – Joint with Organic Aerosol Workshop</b> (Telluride Science tent outside Workshop facility)	
<b>Friday, August 2, 2024</b>		
<b>7:15 am – 8:30 am</b>	<b>Breakfast at TSRC</b>	
<b>8:45 am – 9:30 am</b> Discussion Leader: <a href="#">Jennifer Murphy</a>	Barbara Noziere	Exploring new aspects of organic peroxy radical (RO <sub>2</sub> ) reactivity: reactions with surfaces and leading to condensable products
<b>9:30 am - 10:15 am</b> Discussion Leader: <a href="#">Barbara Noziere</a>	Steve Brown	Anything new under the sun? Thoughts on ozone photochemistry.
<b>10:15 am – 10:30 am</b>	<b>BREAK</b>	
<b>10:30 am - 11:00 am</b>	<b>Parting Words, Future Chairs, etc.</b>	
<b>END</b>		