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| TSRC *Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact*  **AGENDA** | Telluride Intermediate School at 725 West Colorado Ave Telluride CO 81435  Organizers: Jason Surratt, University of North Carolina,  Alexander Laskin, Purdue University  TSRC Hosts: Mark Kozak (970-708-4426) Cindy Fusting (970-708-5069)  Lodging: Kristen Redd (970-729-8375) |

## Monday, July 23, 2018

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| **8:00 am – 12:00 pm** |  | FREE TIME |
| **12:00 pm – 1:00 pm** |  | LUNCH at TSRC, joint with Gas-Phase Workshop |
|  | *ORIGINS AND LIFECYCLE OF ATMOSPHERIC ORGANIC PARTICLES* | |
| ***1:05 pm – 1:15 pm*** |  | Opening remarks by Jason Surratt and Alex Laskin |
| ***1:15 pm – 2:00 pm***  ***Discussion Leader:***  ***Jason Surratt*** |  | **Jose Jimenez:**  From cradle to grave: SOA's birth by condensation, its global urban source, cloud processing, and remote distribution, and its death in the free troposphere. |
| ***2:00 pm – 2:45 pm***  ***Discussion Leader:***  ***Jason Surratt*** |  | **Joel Thornton:**  A mechanistic source apportionment of ambient SOA |
| ***2:45 pm – 2:55 pm*** |  | BREAK |
| ***2:55 pm –3:40 pm***  ***Discussion Leader:***  ***Alex Laskin*** |  | **Manjula Canagartna:**  Understanding the Composition and Sources of Organic Species in the Atmosphere via Mass Spectrometry |
| ***3:40 pm – 4:25 pm***  ***Discussion Leader:***  ***Alex Laskin*** |  | **Faye McNeill:**  Aqueous SOA: Aerosols and Clouds |
| ***4:25 pm – 4:35 pm*** |  | BREAK |
| ***4:35 pm – 5:20 pm***  ***Discussion Leader:***  ***Alex Laskin*** |  | **Annmarie Carlton:**  Aerosol Optical Thickness: Organic Water and Volatility |
| ***5:20 pm – 5:30 pm*** |  | BREAK |
|  | *JOINT LECTURE WITH THE GAS-PHASE WORKSHOP* | |
| ***5:30 pm – 6:15 pm*** |  | **Colette Heald:**  Reactive Organic Carbon |

## Tuesday, July 24, 2018

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| **8:15 am – 8:45 am** |  | Breakfast at TSRC |
|  | *HETEROGENEOUS AND PHOTOCHEMISTRY IN ORGANIC PARTICLES* | |
| **8:45 am – 9:30 am**  ***Discussion Leader:***  ***Sally Ng*** |  | **Havala Pye:**  Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation |
| **9:30 am – 10:15 am**  ***Discussion Leader:***  ***Sally Ng*** |  | **Jesse Kroll:**  Multiphase products of the oxidative aging of organic aerosol |
| **10:15 am – 10:30 am** |  | BREAK |
| **10:30 am – 11:15 am**  ***Discussion Leader:***  ***Andy Ault*** |  | **Jason Surratt:**  Acid-catalyzed multiphase chemistry of isoprene epoxydiols (IEPOX) |
| **11:15 am – 12:00 pm**  ***Discussion Leader:***  ***Andy Ault*** |  | **Hartmut Herrmann:**  Laboratory and Modelling studies on particle oxidative chemistry: Mineral dust, HOMs, Isoprene |
| **12:00 pm – 1:00 pm** |  | LUNCH at TSRC |
| **1:00 pm –1:45 pm**  ***Discussion Leader:***  ***Geoff Smith*** |  | **Sergey Nizkorodov:**  Condensed-phase photochemical processes in organic particles |
|  | *BROWN CARBON FROM BIOMASS BURNING AND OTHER SOURCES* | |
| **1:45 pm –2:30 pm**  ***Discussion Leader:***  ***Geoff Smith*** |  | **Chris Cappa:**  Photochemical aging of smoke from simulated wildfires...and dung! |
| **2:30 pm – 2:40 pm** | BREAK |
| **2:40 pm – 3:25 pm**  ***Discussion Leader:***  ***Arthur Chan*** | **Alex Laskin:**  Molecular Chemistry of Atmospheric Brown Carbon |
| **3:25 pm – 4:10 pm**  ***Discussion Leader:***  ***Arthur Chan*** | **Qi Zhang:**  Aqueous Reactions as a Source of Water-Soluble Brown Carbon |
| **4:10 pm – 4:20 pm** |  | BREAK |
| **4:20 pm- 5:05 pm**  ***Discussion Leader:***  ***Arthur Chan*** |  | **Geoff Smith:**  Can aerosol absorption really be measured with filter-based methods? Yes, but … |
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| **6:00 pm – 6:30 pm** |  | **TSRC Town Talk Pre-Event, Cash Bar, Meet the Speaker 6:00-6:30pm** |
| **6:30 pm – 7:15 pm** |  | **TSRC Town Talk** Conference Center in Mountain Village  Frank Keutsch, “Geo-Engineering a Climate Change Solution?” |

## Wednesday, July 25, 2018

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| **8:15 am – 8:45 am** |  | Breakfast at TSRC |
|  | *ECOLOGICAL AND EARTH SYSTEM EFFECTS OF AEROSOLS* | |
| **8:45 am – 9:30 am**  ***Discussion Leader:***  **Annmarie Carlton** |  | **Susannah Burrows:**  Someday, closure? Progress and challenges in quantitative modelling of biologically-influenced ice nuclei. |
| **9:30 am – 10:15 am**  ***Discussion Leader:***  **Annmarie Carlton** | **Celia Faiola:**  Ecological perspectives on secondary organic aerosol formation: ecosystem disturbance and overlooked sources |
| **10:15 am – 10:30 am** | BREAK |
| **10:30 am – 11:15 am**  ***Discussion Leader:***  **Manabu Shiraiwa** | **Andy Ault:**  Measuring Viscous Aerosol and Acidity: Is It Important or Just a Phase? |
| **11:15 am – 12:00 pm**  ***Discussion Leader:***  **Manabu Shiraiwa** | **Kim Prather:**  Physical, biological, and chemical factors controlling the composition of sea spray aerosols |
| **12:00 pm – 6:00 pm** |  | FREE TIME |
| **6:00 pm – 8:00 pm** |  | **BBQ PICNIC**  Under the tent at TSRC, 725 W Colorado Avenue |

## Thursday, July 26, 2018

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| **8:00 am – 1:00 pm** |  | **FREE TIME** |
|  | ***HEALTH EFFECTS OF ORGANIC PARTICLES*** | |
| **1:00 pm – 1:45 pm**  ***Discussion Leader:***  **Jesse Kroll** |  | **Yinon Rudich:**  Health effects and mechanisms caused by organic aerosol components |
| **1:45 pm – 2:30 pm**  ***Discussion Leader:***  **Jesse Kroll** | **Arthur Chan:**  Respiratory health effects of residual wildfire contaminants, secondary organic aerosol and food cooking particles |
| **2:30 pm – 2:45 pm** | BREAK |
| **2:45 pm – 3:30 pm**  ***Discussion Leader:***  **Qi Zhang** | **Josef Dommen:**  Investigating the relationship between particle characteristics and adverse effects to normal and diseased human airway epithelia |
| **3:30 pm – 4:15 pm**  ***Discussion Leader:***  **Qi Zhang** |  | **Sally Ng:**  Oxidative Stress Induced by Ambient and Laboratory Organic Aerosols |
| **4:15 pm – 4:30 pm** |  | **BREAK** |
|  |  | ***INDOOR ORGANIC PARTICLES*** |
| **4:30 pm – 5:15 pm**  ***Discussion Leader:***  **Qi Zhang** |  | **Jon Abbatt:**  Oxidation and Partitioning Studies of Organics on Indoor Surfaces |
| **6:30 pm – 8:00 pm** |  | **Pizza Party with Gas-Phase Workshop**  Under the tent at TSRC, 725 W Colorado Avenue |

## Friday, July 27, 2018

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| **8:15 am – 8:45 am** |  | **Breakfast at TSRC** |
|  |  | ***INDOOR ORGANIC PARTICLES*** |
| **8:45 am – 9:30 am**  ***Discussion Leader:***  **Celia Faiola** |  | **Vicki Grassian:**  Chemistry of Indoor surfaces: Formation of organic thin films, deposition of organic particles and surface adsorption of organic compounds |
| **9:30 am - 10:15 am**  ***Discussion Leader:***  **Celia Faiola** | **Manabu Shiraiwa:**  Multiphase chemistry of organic compounds in indoor environments |
| **10:15 am – 10:30 am** | BREAK |
| **11:15 am – 11:30 am** | Parting Words, Future Chairs, etc. |
|  | **END** |
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