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

## Monday, July 23, 2018

|  |  |  |
| --- | --- | --- |
| **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

|  |  |  |
| --- | --- | --- |
| **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 … |
|  |
| **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 VillageFrank Keutsch, “Geo-Engineering a Climate Change Solution?” |

## Wednesday, July 25, 2018

|  |  |  |
| --- | --- | --- |
| **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

|  |  |  |
| --- | --- | --- |
| **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

|  |  |  |
| --- | --- | --- |
| **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** |
|  |  |