

NETCARE Workshop 2017

Day 1 - Monday November 13th



All talks will be 15 minutes long, with 5 minutes for questions

There will be two sessions for the Monday poster group, posters will be up for one day

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| 07:45 – 08:45 | Breakfast | Monday posters will be setup during this time |
| Session 1 | Chair: Jon Abbatt | |
| 08:45 – 09:00 | Jon Abbatt | Welcome and introduction |
| 09:00 – 09:20 | Len Barrie | An historical perspective on the achievements of Canadian Arctic aerosol and air chemistry research |
| 09:20 – 09:40 | Tim Garrett | Aerosols, clouds, and precipitation in the Arctic: Who's in charge? |
| 09:40 – 10:00 | Poster introductions | 1 minute / 1 slide presentations |
| 10:00 – 11:00 | Coffee and posters | Monday poster session |
| Session 2 | Chair: Rachel Chang | |
| 11:00 – 11:20 | Allan Bertram | Major findings about ice nucleating particles that have occurred within NETCARE |
| 11:20 – 11:40 | Richard Leaitch | Some things we've learned from NETCARE about traditional direct and indirect effects of the Arctic aerosol |
| 11:40 – 12:00 | Annica Ekman | Mixed-phase clouds in the high Arctic – insights from large-eddy simulation and observations |
| 12:00 – 12:20 | Ken Carslaw | Results of the BACCHUS model intercomparison of CCN-limited Arctic clouds |
| 12:20 – 01:30 | Lunch at the Faculty Club | |
| Session 3 | Chair: Lisa Miller | |
| 01:30 – 01:50 | Jen Murphy | What regulates atmospheric ammonia in the summertime Canadian Arctic? |
| 01:50 – 02:10 | Betty Croft/Junwei Xu | Sources and processes controlling arctic aerosol abundance |
| 02:10 – 02:30 | Jo Browse | Modelling the role of ammonia in Arctic nucleation |
| 02:30 – 02:50 | Martine Lizotte | Connecting the atmosphere to the Arctic hydrosphere-cryosphere complex within NETCARE: spatiotemporal variability in marine sources of DMS and organics |
| 02:50 – 03:10 | Hakase Hayashida | Progress and challenges in modelling oceanic emissions of dimethylsulfide in the Arctic |
| 03:10 – 03:40 | Coffee and Posters | Poster Session Day 1 |
| Session 4 | Chair: Michel Gosselin | |
| 03:40 – 04:00 | Lynn Russell | Comparing particle sources and composition in marine and Arctic regions |
| 04:00 – 04:20 | Jon Abbatt | Formation and growth of ultrafine particles in the summertime Arctic |
| 04:20 – 04:40 | Caroline Leck | Microbiology-ocean-cloud-coupling in the high Arctic |
| 04:40 – 05:00 | Paty Matrai | The nexus between Arctic sea ice, marine organic matter and biogenic aerosols |
| 07:00 | Dinner | C'est What: 67 Front St E Website - http://www.cestwhat.com/ |

NETCARE Workshop 2017

Day 2 - Tuesday November 14th



All talks will be 15 minutes long, with 5 minutes for questions

There will be two sessions for the Tuesday poster group, posters will be up for one day

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| 07:45 – 08:50 | Breakfast | Tuesday posters will be set-up during this time |
| Session 1 | Chair: Ann-Lise Norman | |
| 08:50 – 09:10 | Megan Willis | Sources and removal of springtime Arctic aerosol |
| 09:10 – 09:30 | Maria Sand | Aerosols at the Poles: An AeroCom multi-model evaluation |
| 09:30 – 09:50 | Knut von Salzen | Progress in modelling of Arctic aerosol and climate processes |
| 09:50 – 10:10 | Poster introductions | 1 minute / 1 slide presentations |
| 10:10 – 11:10 | Coffee and posters | Tuesday poster session |
| Session 2 | Chair: Nadja Steiner | |
| 11:10 – 11:30 | Andreas Stohl | Dust in the Arctic - the contribution of high-latitude versus low-latitude dust sources for dust loads, deposition and radiative forcing in the Arctic |
| 11:30 – 11:50 | Paul Shepson | Iodine chemistry in the Arctic, and connections to ozone and aerosols |
| 11:50 – 12:10 | Jean-Pierre Blanchet | NETCARE contribution to the development of the far IR radiometry toward a TICFIRE/FIRR mission and its applications |
| 12:10 – 01:20 | Lunch at the Faculty Club & Executive and Steering committee side meeting | |
| Session 3 | Chair: Randall Martin | |
| 01:20 – 01:40 | Hans Christen Hansson | How regional aerosol particle emissions in the midlatitudes affect climate in the Arctic |
| 01:40 – 02:00 | Mark Flanner | Impacts of future climate change on aerosol transport to the Arctic |
| 02:00 – 02:20 | Steve Arnold | The PACES initiative: building capacity for future Arctic air pollution research |
| 02:20 – 02:40 | Charles Brock | Improving understanding of pollutant transport from East Asia to the Arctic |
| 02:40 – 03:10 | Coffee and posters | Tuesday poster session |
| 03:10 – 03:30 | Marjorie Shepherd | Aerosols science for climate, air quality and weather in ECCC with an Arctic emphasis |
| 03:30 – 03:50 | Lisa Miller & Jen Murphy | Updates on status of SOLAS/CATCH |
| 03:50 – 05:10 | Discussion | Major uncertainties, priorities, future directions (led by Jon Abbatt and Paul Shepson) |
| 07:00 | Dinner | The Host Fine Indian Cuisine: 14 Prince Arthur Ave Website - https://welcometohost.com/ |

NETCARE Workshop 2017

Poster Sessions



On each day prior to the first poster session, there will first be a 20-minute period for single-slide, one-minute poster introductions.

Monday posters

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| Ana Cirisan | Development and validation of an ice nuclei parameterization based on Amundsen 2014/2016 summertime campaigns. |
| Rachel Chang | Artificially Generated Sea Spray Aerosols from Multiple Sea Water Sources |
| Mark Derksen | Biogenic sulfate in Arctic precipitation and its ice nucleation characteristics |
| Vickie Irish | Ice nucleating particles in the marine boundary layer in the Canadian Arctic during summer 2014 |
| Setigui Keita | Study of the aerosols-clouds-radiation in the polar night using WRF-CHEM coupled to an advanced microphysics |
| Jack Kodros | Size-resolved mixing state of black carbon in the Canadian high Arctic and implications for simulated direct radiative effect |
| Lisa Miller | The Arctic marine carbon cycle and sea-surface microlayer: Have we learned anything new? |
| Ann-Lise Norman | Biogenic sulfate in the Arctic atmosphere: an overview of its role in aerosol formation, growth, and precipitation properties based on isotope apportionment studies |
| Meng Si | Ice nucleating efficiency of atmospheric particles and possible sources of ice nucleating particles at three marine sites |
| Knut von Salzen | Sensitivity of Arctic sulphate aerosol and clouds to changes in future surface seawater dimethylesulphide concentrations |

Tuesday posters

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| Yasmin Ahmed Samy | Climatological scale analysis of intensive (per particle) AERONET retrieval parameters over the Arctic |
| Aude Boivin-Rioux | Recent changes in phytoplankton biomass, production and size structure: overseeing potential consequences of a warmer and fresher Arctic Ocean |
| Heiko Bozem | Empirical trace gas gradients in the Arctic and the polar dome location |
| Nicole Chisholm | The hygroscopicity of the organic fraction of sea spray aerosols |
| Doug Collins | An interdisciplinary study of ultrafine aerosol particle formation and marine biogeochemistry |
| Roya Ghahremanine | Dimethyl sulfide and non-sea-salt sulfate aerosols in the Arctic atmosphere |
| Wanmin Gong | Modelling Atmospheric Ammonia in Summer Arctic |
| Hayashida Hakase | Pan-Arctic simulation of DMS production and emissions over the period 1979-2015 |
| Alexander Moravek | Sources and sinks of ammonia in the summertime Arctic marine boundary layer: New insights from the 2016 Amundsen cruise |
| Emma Mungall | VOC time series measurements in the summer Canadian Arctic: sources and speculation |
| Jai Prakash-Chaubey | Observations of cloud condensation nuclei aerosols over the Canadian Arctic during summer of 2016 |