

NETCARE 2014 Workshop - Monday November 3rd, 2014

7:45 - 08:30	Breakfast	
8:30 - 08:40	Welcome to the 2014 Workshop	Session Leader: Jon Abbatt (UofT)
8:40 - 08:50	Introduction to New Investigator - Rachel Chang	Rachel Chang (U Dal)
8:50 - 10:30	Summary of 2014 POLAR6 Campaign	Session Leader: Jon Abbatt (UofT)
	8:50 Overview of the campaign	Jon Abbatt (UofT)
	9:00 Trace gas measurements during NETCARE 2014	Heiko Bozem (U Mainz)
	9:15 Airborne observations of newly formed particles in the Arctic summertime aerosol	Julia Burkart (UofT)
	9:30 Observations of submicron aerosol composition in the summertime Arctic	Megan Willis (UofT)
	9:45 Aerosol composition and Origin of Pollution in the High Arctic from Aircraft Measurements during NETCARE 2014	Franzi Koellner (U Mainz, MPI)
	10:00 Early results from the cloud observations around resolute	Richard Leitch (EC)
	10:15 Modeling the impacts of Arctic shipping - regional and local impacts	Jennie Thomas (LATMOS)
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Invited Speaker - Arctic Haze: Results from Airborne Field Projects during the International Polar Year 2008	Charles Brock (NOAA)
11:30 - 12:35	Ice and Black Carbon - Research Progress	Session Leader: Allan Bertram (UBC)
	11:30 Overview of issues and activities	Allan Bertram (UBC)
	11:40 Measurements of ice nucleating particles at Ucluelet: size-dependent concentrations and relationships to other species	Ryan Mason (UBC)
	11:55 On NETCARE climate science: The strategic importance of monitoring thin ice clouds in the high Arctic	Jean-Pierre Blanchet (UQAM)
	12:10 Importance of physico-chemical properties of aerosols in the formation of arctic ice clouds	Setigui Keita (UQAM)
	12:25 Introductions: Meysam Alian (UofT), Vickie Irish (UBC), Katrina Macdonald (UofT), Meng Si (UBC), Matthew Boyer (U Dal)	

12:35 - 1:45	Lunch at the Faculty Club	
1:45 - 2:45	Summary of 2014 Amundsen Campaign - Oceanic and Microlayer Measurements	Session Leader: Maurice Levasseur (U Lav)
1:45	Overview of the campaign	Maurice Levasseur (U Lav)
1:55	Water masses, nutrients and algal production during the 2014 Netcare/ArcticNet joint expedition	Michel Gosselin (UQAM)
2:10	High levels of oceanic DMS in the upper waters of the Canadian Arctic Archipelago during summer 2014	Martine Lizotte (U Lav)
2:25	Microlayer measurements in the Canadian Arctic	Vickie Irish (UBC)
2:35	DMS production in melt ponds and surface waters in the Canadian Arctic	Margaux Gourdal (U Lav)
2:45 - 3:00	Ocean- Atmosphere Modeling	
2:45	Modelling the annual cycle of dimethylsulfide in sea ice and pelagic environments using a one-dimensional coupled sea ice-ocean biogeochemical model	Hakase Hayashida (U Vic)
3:00 - 3:15	Coffee Break	
3:15 - 4:15	Summary of Amundsen Campaign - Atmospheric Measurements	Session Leader: Jen Murphy (UofT)
3:15	Ammonia in the summertime Canadian Arctic: Measurements and implications	Greg Wentworth (UofT)
3:30	Atmospheric DMS from melt ponds and its vertical distribution in the Arctic	Roya Ghahremaninezhadgharelar (U Cal)
3:45	Observations of DMS and some organic species in the gas-phase and number and size distributions of aerosol particles	Emma Mungall (UofT)
4:00	Acid-CIMS measurements in the Canadian Arctic	Jeremy Wentzell (EC)
4:15 - 4:45	Discussion of Overlap Between POLAR6 and Amundsen Atmospheric Measurements	Session Leader: Jon Abbatt (UofT)
6:30	Network Dinner at Lee Chen Asian Bistro, 832 Yonge St. Toronto	

NETCARE 2014 Workshop - Tuesday November 4th, 2014

7:45 - 08:30 **Breakfast**

8:30 - 10:15 **Aerosol Properties, Processes and Radiative Forcing**

- 8:30 Understanding the seasonal cycle of Arctic black carbon
- 8:45 Processes controlling the seasonal cycle of aerosol size
- 9:00 Modelling regional air quality in the Canadian Arctic: Impact of North American wildfire and Arctic shipping emissions
- 9:15 Multi-station comparison of total, sub-micron and super-micron AODs from AEROCAN / AERONET with analogous OD parameters from GEOS-Chem
- 9:30 How well does CanAM simulate Arctic Aerosols? Some first results
- 9:45 Seasonality of Arctic black carbon budgets in global climate models
- 10:00 Probing the uncertainty in aerosol radiative forcing

Session Leader: Randall Martin (U Dal)

Andrew Morrow (U Dal)
Betty Croft (U Dal)
Wanmin Gong (EC)

Sareh Hesaraki (U Sher)

Knut von Salzen (U Vic)
Rashed Mahmood (U Vic)
Mina Rohanizadegan (UW)

10:15 - 10:45 **Coffee Break**

10:45 - 12:15 **Breakout Sessions**

- Section 1 Ocean-atmosphere interactions
- Section 2 Aerosol processes and radiative forcing

- Section 3 Carbonaceous aerosol

Lead: Lisa Miller (DFO)

Leads: Randall Martin (U Dal)
Knut von Salzen (U Vic)

Lead: Allan Bertram (UBC)

Each breakout session will prepare three powerpoint slides

- 1) Progress towards answering research questions
- 2) Research plans, including whether we should adapt plans from the proposal
- 3) Plans and progress towards knowledge transfer to government
(i.e. beyond publishing papers in the literature)

12:15 - 2:00 **Lunch at the Faculty Club**

Joint meeting of Executive Committee, Steering Committee, NSERC Rep

2:00 - 3:30 **Reports from Breakout Sessions**

Session Lead: Jon Abbatt (UofT)
