

# 2018 Environmental Chemistry Symposium

## University of Alaska

7<sup>th</sup> April 2018 – 9:30 AM to 4:00 PM UAF Akasofu (IARC) 401  
Awards and Posters (and dinner 4:00 – 6:30 PM) UAF Akasofu (IARC) 401

### Organizers:

William R. Simpson, Jennifer J. Guerard, Jingqiu Mao

### Sponsors:

Department of Chemistry and Biochemistry, UAF

College of Natural Sciences and Mathematics (CNSM), UAF

Geophysical Institute (GI), UAF

Undergraduate Research and Scholarly Activities (URSA), UAF



# Symposium Schedule

Time	Presenter	Title
9:30 – 10:15 am	Breakfast Reception	
10:15 – 10:20	Opening Remarks	
	<b>Session 1: Atmospheric Chemistry &amp; Cycling</b>	
10:20 – 10:40 am	Nicole Jacobs	<i>A year of regional atmospheric CO<sub>2</sub> and CH<sub>4</sub> measurements in Fairbanks and other boreal forest sites</i>
10:40 – 11:00 am	Sujai Banerji	<i>Pandora - A new UV-Vis spectrometer developed for measurements of vertical column density of NO<sub>2</sub></i>
11:00 – 11:20 am	William Swanson	<i>Modeling Arctic Reactive Bromine Using Principal Components Analysis</i>
11:20 – 11:40 am	Coffee Break	
	<b>Session 2: Aquatic Photochemistry</b>	
11:40 – 12:00pm	Kristin Gagné	<i>A Snapshot into the Past: Permafrost Chemical Composition and Photochemical Reactivity</i>
12:00 – 12:20pm	Lawrence Itela	<i>Photolysis of the Anti-Retroviral Drug Nevirapine in Aquatic Waters</i>
12:30 – 1:45 pm	Lunch	
1:45 – 2:00 pm	Group Photo	
	<b>Session 3: Aerosols &amp; Air Pollution</b>	
2:00 – 2:20 pm	Abdul Kadir	<i>Investigation of Particulate Air Pollution in Interior Alaska</i>
2:20 – 2:40 pm	Jennifer Chambers	<i>Determining the composition of aerosols produced through the combustion of different fuel types using FTIR</i>
2:40 – 3:00 pm	Ragen Davey	<i>Characterizing Anion and Metal Aerosol Composition and Formation in Arctic Air</i>
3:00 – 3:20 pm	Coffee Break	
	<b>Session 4: Contaminant Fate &amp; Transformation</b>	
3:20 – 3:40 pm	Taylor Gofstein	<i>Fate and Effects of Petroleum Contamination and Chemical Dispersants in Arctic Marine Environments</i>
3:40 – 4:00 pm	Kyle Milke	<i>Release of metal(loid)s from coal ash and association with dissolved organic matter in aqueous systems</i>
4:00 – 5:00 pm	<b>Undergraduate Poster Session</b>	
5:00 – 6:30 pm	Dinner and Awards Reception	

## Poster Presentations

4:00 – 5:00 pm	Presenter	Poster Title
	Kiersten Johnson	Diurnal ambient aerosol concentration during the Fairbanks Winter
	Kiana Mitchell	Leaching behavior of boiler slag and fly ash in sub-Arctic environmental media.
	David Warner	Diversity of Alaskan boreal DOM: Relationships between DOM composition and molecular size