Connaught Summer Institute in Arctic Science: Atmosphere, Cryosphere, and Climate

Welcoming Remarks

Nottawasaga Inn
Alliston, Ontario
18-22 July 2016
Opening Session Outline

**Kimberly Strong**
- Introduction
- Summer School Logistics

**Shannon Hicks and Yasmin AboEl-Fetouh**
- Remarks from the CREATE/PAHA Trainees’ Advisory Committee (TAC)
- Overview of the Career Panel

**Everyone**
- Welcoming Jamboree
Introduction

The Connaught Summer Institute in Arctic Science: Atmosphere, Cryosphere, and Climate

• Brings together students and scholars engaged in Arctic research, to provide an understanding of the Arctic climate and to establish a forum for discussion of current challenges and research opportunities

• Supported by the University of Toronto's Connaught Fund and builds on the Summer School program developed by the NSERC CREATE Training Program in Arctic Atmospheric Science (CREATE-AAS)

• Affiliated with three networks funded by NSERC’s Climate Change and Atmospheric Research (CCAR) program: PAHA, NETCARE, and CanSISE, and with groups at UofT engaged in lab studies of chemistry at the air-ice/snow interface and paleo-reconstructions of Arctic environments
CREATE-AAS

- NSERC’s Collaborative Research and Training Experience (CREATE) Program supports the training of students & PDFs
- Our **NSERC CREATE Training Program in Arctic Atmospheric Science** provides training in polar, atmospheric, and climate sciences, including the use of state-of-the-art instrumentation and analysis of large data sets
- Takes advantage of the unique capabilities of the Polar Environment Atmospheric Research Laboratory (PEARL)
- Began in April 2010 and just ended in March 2016
Probing the Atmosphere of the High Arctic

- NSERC CCAR program that is using measurements from the PEARL at Eureka, Nunavut and other sites around the Arctic to probe the atmosphere of the Canadian High Arctic and analyze the causes of observed changes
- Led by Jim Drummond (Dalhousie) and involves seven universities, Environment Canada, and international partners, including the NOAA Earth System Research Lab
- Three research themes: Composition Measurements, Polar Night, and Satellite Validation
- PEARL was established in 2005 by the Canadian Network for the Detection of Atmospheric Change (CANDAC)
NETCARE

Network on Climate and Aerosols: Addressing Key Uncertainties in Remote Canadian Environments

- NSERC CCAR program using observations and modelling to address aerosol-climate connections in the Arctic
- Led by Jon Abbatt (UofT) and involves ten universities, ECCC, DFO, and three international partners
- Four research activities:
  - Activity 1: Carbonaceous Aerosol
  - Activity 2: Ice Cloud Formation and Impacts
  - Activity 3: Ocean-Atmosphere Interactions
  - Activity 4: Implications of Measurements on Simulations of Atmospheric Processes and Climate
- Field campaigns use the Canadian Coast Guard Service Amundsen, a research icebreaker, and the German POLAR6 aircraft based out of Resolute Bay, Nunavut
The Canadian Sea Ice and Snow Evolution Network

- NSERC CCAR program that seeks to advance our ability to predict Arctic sea ice and snow in Canada’s sub-Arctic, alpine, and seasonally snow-covered regions
- Led by Paul Kushner (UofT) and involves eight Canadian universities, EC, the Canadian Ice Service, and the Pacific Climate Impacts Consortium
- It aims to exploit advances in climate observations and climate modelling that allow us to forecast these quantities over seasons, years, and even decades
- Three research areas:
  - (A) Prediction
  - (B) Climate change detection and attribution
  - (C) Process studies related to snow and sea ice and their roles in climate
Summer School Logistics

**Daily**
- 7-9 AM Buffet breakfast in the Riverview Dining Room
- 9 AM Lectures start **promptly** in room 2
- 12:30-1:30 Buffet lunch
- 7 PM Table service supper (please arrive at 7:00)

**Special Events**
- 8:30 PM, Monday TAC Welcoming Icebreaker
- 11-12:30, Tuesday Poster session (room 1)
- 8:30 PM, Tues & Thurs Outdoor sports & indoor minigolf
- 8:00-9:30 PM, Wednesday Career panel (room 2)
- 3:00 Thurs, 11:00 Friday Workshops (room 2)
- 12:30-1:00, Friday Closing session and survey

**Departure**
- 11 AM, Friday Check-out time (and take down posters)
- 2:00 PM, Friday Bus leaves for Toronto
Poster Session

- Posters will be displayed in room 1 from Monday through Friday (coffee breaks will also be held in this room)
- Poster boards should be set up now - please mount your poster today and take it down on Friday morning
- The formal poster session is at 11:00-12:30, Tuesday
- Please stay near your poster for your assigned session, as judges will be visiting during this time:
  - Session A → 11:00-11:45
  - Session B → 11:45-12:30
- Poster judges
  - Peter Braesicke, Chris Derksen, John Fyfe, Patrick Hayes, Bob Holmes, Boyd Tolton
  - Two judges assigned to each poster – will provide you with some comments
- Awards will be given to the best posters! (at 6:30 Thursday)

See pages 24-25 of your program book for your session and location
Poster Layout

- Session A → 11:00-11:45
- Session B → 11:45-12:30

You will be also able to review posters Monday to Thursday afternoon from 8:30 AM – 7:00 PM.
Recreational Activities

• 8:30 PM, Monday
  ➢ Welcoming “Icebreaker” organized by the CREATE-AAS TAC
  ➢ Begins at 8:30 PM at the lower patio, with the Starlight Lounge as alternate location in case of rain (map on page 22)

• 8:30 PM, Tuesday
  ➢ Outdoor sports (soccer, volleyball, ultimate frisbee) at field 2 (map on page 23)

• 8:30 PM, Thursday
  ➢ Indoor minigolf in the Sports and Leisure Dome 2 (map on page 23)

• 1:30-3:00 PM is free time to enjoy the facilities and recharge for the afternoon session!
  ➢ See pages 21-23 of your program book for a full list of on-site facilities and maps
# Today’s Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker/Organizer</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>10:00 –</td>
<td>Chartered bus departs Holiday Inn (280 Bloor</td>
<td>Kimberly Strong</td>
<td>Introduction</td>
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<td>~11:30</td>
<td>Street West, Toronto, ON) for the Nottawasaga</td>
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<td>Inn. Please be there and ready to leave</td>
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<td></td>
<td>promptly at <strong>9:45 AM</strong>.</td>
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<tr>
<td>11:30 –</td>
<td>Arrival and check-in at Nottawasaga Inn (6015</td>
<td>Shannon Hicks</td>
<td>Remarks from the CREATE/PAHA Trainees’ Advisory Committee (TAC)</td>
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<td>12:00</td>
<td>Ontario 89, Alliston, ON)</td>
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<td>12:00 –</td>
<td>Lunch (Riverview Dining Room)</td>
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<td>1:30 –</td>
<td>Welcoming remarks</td>
<td>Yasmin AboEl-Fetouh</td>
<td>Overview of the Career Panel</td>
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<td>1:30 –</td>
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<td>1:45 –</td>
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<tr>
<td>1:45 –</td>
<td>Welcoming remarks</td>
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<tr>
<td>2:00 –</td>
<td>Jamboree</td>
<td>All attendees</td>
<td>Speaker and Student Jamboree (two minutes and one slide per attendee)</td>
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<td>2:00 –</td>
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<td>3:45 –</td>
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<td>3:45 –</td>
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<td>4:15 –</td>
<td>Coffee break</td>
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<td>5:00 –</td>
<td>Lecture A</td>
<td>Peter Braesicke (1/3)</td>
<td>Composition-climate interactions: introduction</td>
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<tr>
<td>5:00 –</td>
<td>Lecture A</td>
<td>Peter Braesicke (1/3)</td>
<td>Composition-climate interactions: introduction</td>
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<td>5:45 –</td>
<td>Lecture C</td>
<td>Deborah Webster (1/3)</td>
<td>Inuit heritage</td>
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<td>6:30 –</td>
<td>Icebreaker introduction</td>
<td>CREATE/PAHA TAC</td>
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<td>6:30 –</td>
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<td>7:00</td>
<td>Free time (except for poster judges – they</td>
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<td>will meet in room 2 for a short discussion)</td>
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<tr>
<td>7:00</td>
<td>Dinner (Riverview Dining Room)</td>
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<td>8:30</td>
<td>Welcoming Icebreaker</td>
<td>CREATE/PAHA Trainees’ Advisory</td>
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<td>Committee</td>
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The program, lecture slides, posters, and photos will be posted at [http://www.candac.ca/create/ss2016/summerschool2016.html](http://www.candac.ca/create/ss2016/summerschool2016.html)
NSERC CREATE
Trainees’ Advisory Committee (TAC)

Who we are
What we do

2016 Connaught Summer Institute

Photo: Zen Mariani
Trainees’ Advisory Committee for CREATE-AAS / PAHA

- Represents the interests of students, both undergraduate and graduate, and post-doctoral fellows. Advises the Trainees’ Program Committee and PAHA on trainee affairs from the trainees perspective.
- Promotes interactions between the young researchers & CANDAC/PAHA
- Social and research events
- Networking opportunities – mailing list, social network, etc.
- All trainees can contribute their thoughts and ideas.
TAC Members

• Chair: Shannon Hicks (UWO)
• Secretary: Zahra Vaziri (York U.)
• Toronto Reps: Ralph Bauer, Sebastien Roche
• U. of New Brunswick Rep: Chris Vail
• Sherbrooke Rep: Yasmin AboEl-Fetouh
• U. of Western Ontario Rep: Ali Jalali
• We need more university representatives!
• Goal is to provide feedback to the organizing committee
• Aiming for membership continuity from year to year
• Members are at a variety of academic stages
• We want to ensure every institution has representation on TAC
• Interested in joining/hearing more? Come to our meeting Thursday during Lunch!
Communication

- Email: create_trainees@candac.ca
- Social Media:
The moral of this story:

- Please let any of us know if you have any suggestions/feedback for the program
- Come to us with any questions
Career Panel

Wednesday
8:00 – 9:30 p.m.

Yasmin AboEl-Fetouh moderates the session

Submit written questions using question box!!

Feel free to ask questions & discuss during the session.
2016 Career Panel

Henry Buijs
Co-founder of Bomem, Chief Technology Officer at ABB Inc.

Ray Clement
EnviroAnalysis, former Senior Research Scientist, Ontario Ministry of the Environment

Sarah Finkelstein
Associate Professor, Department of Earth Sciences, University of Toronto

Gabrielle Gascon
Physical Sciences Specialist, Environment and Climate Change Canada

Boyd Tolton
Chief Science Officer, Synodon Inc.
Onto the Jamboree!