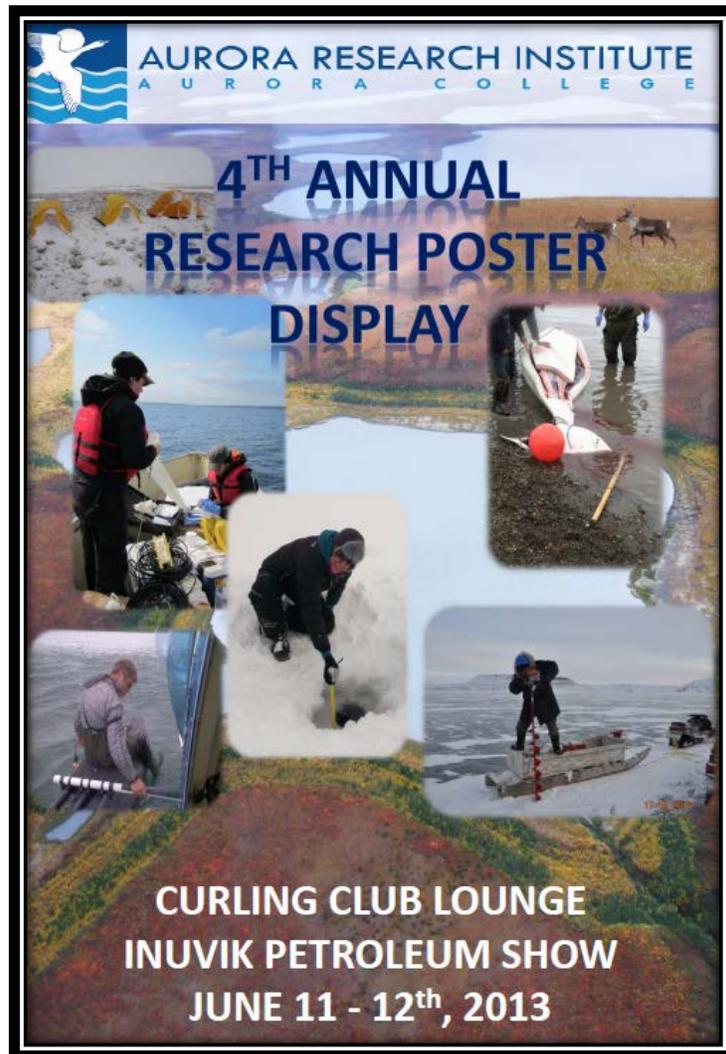


Logistics and Administration

Quarterly Report



Poster advertising the annual research poster display at the Inuvik Petroleum Show.

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Logistics at the Western Arctic Research Centre

The Western Arctic Research Centre (WARC) provides a wide range of support to researchers on a year-round basis. Support is also provided to the communities surrounding Inuvik, businesses, and educational institutions.

WARC provides housing to researchers at a low cost. Each house includes a full kitchen, bath, laundry services, a living room and six beds. Other features include basic cable television, wireless internet, and a front deck with a barbeque. Rates include daily, weekly and monthly fees, which vary depending on user category (students, Canadian users, and non-Canadian users).

We have a large selection of equipment that is also provided year-round. Big items include, but are not limited to, boats, snow machines, and toboggans. Smaller items include, but are not limited to, tents, augers, and frost depth probes. Our facility provides a great space for research. We have a shared research office space with up to 10 individual desk spaces. We have three labs, which include a Clean Lab, a Dirty Lab and a Wet Lab. We have a classroom, which is used quite often. And lastly, we have two meeting spaces: a large conference room and a smaller meeting room.

WARC supports many user groups throughout the year. Our facility provides a variety of resources to all researchers and groups working in the western Canadian arctic, and in the communities surrounding Inuvik. We provide in-kind support to groups and individuals on a regular basis as a way to give back and provide support for their work.

User Days of Support

I created a graph to record the number of user days of equipment rental, accommodations, facility use, and technician support (which included requests for assistance from both technicians, as well as two casual staff and one summer student; **Figure 1**). For equipment, the total number of user days from April 1 to June 30, 2013, was 108. For technician support (including two technicians, two casual staff and one summer student), the total number of user days was 10.5. For WARC facility use, the total number of user days was 52. For accommodations from April 1 to June 30, 2013, the total was 428 user days.

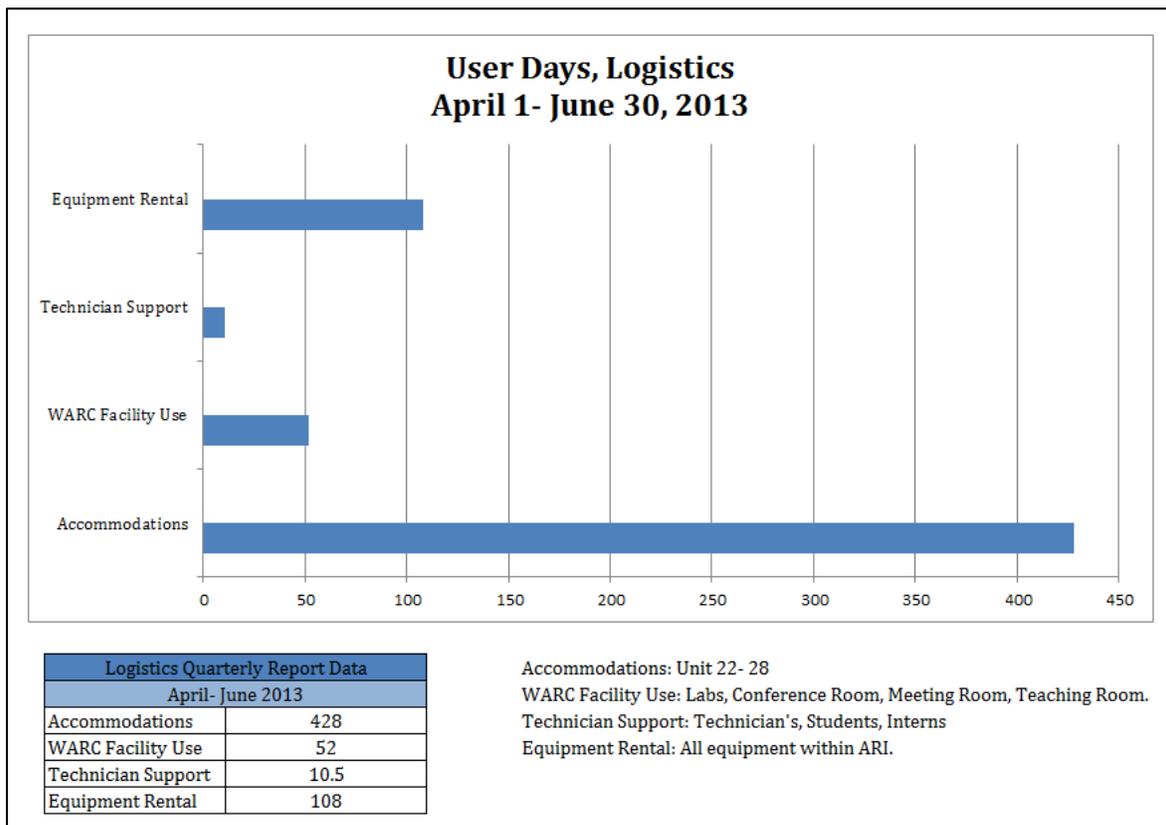


Figure 1: The number of user days for equipment rental, accommodations, facility use, and technician support from April 1 to June 30, 2013.

Activities of Note

From April 1 to June 30, 2013 a number of events took place at WARC. A total of 23 requests were submitted for logistical support. During this time a lot of groups and individuals passed through our facility, making use of the resources that we offer. People from all around the world come to WARC and then branch out to conduct research on the Mackenzie Delta and other locations across the western arctic.

Solar Wall Monitoring (SOWALL13 Project)

There are three renewable energy installations at WARC, which include a wind turbine, photovoltaic system (solar electric), and a solar wall façade. All are currently in operation to promote renewable technologies at high latitude locations. For education and demonstration purposes, the renewable systems at WARC will all eventually be monitored, and real-time renewable energy generation data will be displayed on the ARI website.

Compared to the other two electric systems, the solar wall system requires more parameters and extra monitoring efforts in order to correctly evaluate its thermal energy (heating) output. The objective of this project was to calculate the energy savings from this system as a public demonstration. In partnership with Arctic Energy Alliance, GNWT Department of Environment and Natural Resources, and Siemens, WARC staff facilitated the installation of various sensors in the building ventilation and heating

system. The sensors were installed, calibrated, programmed and tied in to the building software platform. Data are downloaded weekly and are displayed on-line; data are also publically available on request.

Inuvik Petroleum Show Research Poster Display

Every June, the Inuvik Petroleum Show (IPS) is held at the Midnight Sun Recreation Complex. The IPS is a two-day-long tradeshow and conference that brings together industry, government and regional stakeholders to discuss key issues relating to natural resource development and extraction in the Arctic. For the past four years, the Aurora Research Institute (ARI) has participated in the event by holding a Research Poster Display highlighting recent projects, results, and discoveries that are relevant to the event.

This year, the IPS was held from June 10 to June 12. There were ten new poster contributions from groups conducting their research in the Northwest Territories, as well as five new posters outlining the research activities being carried out at ARI. The display showcased research from a wide range of disciplines, including spatial sciences, coastal processes, aquatic biology, river ice, alternative energy, permafrost, and botany. It was nice to see how motivated the research groups were to contribute. We also had two lap tops available, which visitors could use to search for research licenses using our online database, PeopleAce.

A lot of work goes into setting up and taking down the poster display. ARI is responsible for making signs to advertise the event, printing off the research posters, putting up and taking down the research posters, distributing swag and educational materials, and staffing the display each day. That being said, the IPS is a good opportunity for ARI staff to engage with the community, and it's an event that the staff always looks forward to.

Canadian Polar Commission Board Meeting

From June 16 to June 18, the Canadian Polar Commission (CPC) held their annual board meeting in the Western Arctic Research Centre conference room. Twelve delegates traveled to Inuvik to discuss CPC objectives and priorities over the coming year. While at WARC, the CPC delegates received a tour of the building and got to witness some WARC outreach activities (e.g. a summer camp visit).