



**Alberta
Land Surveyors'
Association**

"Modernization Considerations for the Canadian Spatial Reference System Webinar"

Date: February 21, 2019

Time: 12:00 p.m. to 1:00 p.m. (please connect at 11:45 a.m. as the webinar will start at noon)

Who is Invited: Everyone (maximum 500 participants)

Cost: No Charge

Webinar Synopsis:

Technological advances are putting demands upon positioning infrastructure in terms of accuracy, uptime and coverage for emerging, real-time applications. Autonomous vehicles, smart phones, drones, lawn mowers and other technologies now leverage precise positioning data feeds. As demand for such services increase, so does our reliance upon Global Navigation Satellite Systems (GNSS).

In 2018, the Australian government announced that it will be investing \$225 million into its National Positioning Infrastructure. By investing strategically in the location and capability of ground infrastructure, Australia will significantly reduce national barriers to precise positioning and will create opportunities for Australian business. Through this investment, it is desired to ensure nationally consistent and accurate real-time positioning of three centimetres across Australia in areas with mobile coverage. Investments into similar positioning capabilities have also been made in Japan, where widespread access to real-time, centimetre level positioning capabilities is to be provided at no charge.

This webinar will provide a scan of global trends in real-time positioning. Our increasing reliance upon GNSS is also discussed. Considerations for modernizing the Canadian Spatial Reference System are presented, including:

- i. Is it worthwhile to offer a national, real-time positioning service?
- ii. Why is the Canadian velocity model an important modernization consideration?
- iii. How can we achieve a more coordinated approach amongst academic, private sector, public sector and non-government organization bodies to addressing sector needs?
- iv. How to improve the resiliency of our Canadian Active Control Stations network to meet industry needs?

Presenter:

Jason Bond, PhD, PEng, NSLS

Jason has been working in the fields of surveying and geomatics for over twenty years. As an expert in GNSS and engineering surveys, he has developed, integrated and leveraged precision GNSS technologies for industrial applications in emergency preparedness, surveying, construction and mining applications. Jason holds a doctoral degree from the University of New Brunswick (UNB) in Geodetic Engineering and has given numerous presentations and lectures. In 2017, he was awarded the Premier's Award of Excellence for implementing positioning infrastructure that would enable real-time, centimetre level positioning throughout Nova Scotia. As the lead for Canadian Geodetic Survey's Positioning, Navigation and Timing team, Jason is currently investigating ways of modernizing Canada's spatial referencing program to meet industry's positioning needs over the next decade.

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Please register at:

<https://attendee.gotowebinar.com/register/4318099217850117890>

After registering, you will receive a confirmation e-mail containing information about joining the webinar. You will also receive reminders the day before and one hour before the webinar.

You will need a microphone and speakers (VoIP), a headset is recommended.

Please contact Kerry Barrett at barrett@alsa.ab.ca if you require assistance.