

Earth Observation

(Half day program)

Description: The program will explore the transformative role of Earth Observation technologies in addressing the challenges posed by Canada’s rapidly changing climate. With Canada warming twice as fast as the global average and Arctic regions warming three times faster, the incidence of catastrophic events across the country has surged in recent times. Earth Observation provides critical data for both environmental monitoring and sustenance and industrial sustainability.

Sponsored by the World Geospatial Industry Council (WGIC), the program will feature presentations from leading Earth Observation companies, highlighting innovative solutions for managing natural resources, enhancing climate resilience, and optimizing industrial operations. It will demonstrate how satellite data and geospatial intelligence are used to monitor ocean health, land use changes, and environmental impacts. Attendees will also gain insights into advanced applications such as flood mapping, which aids in disaster preparedness and response, and methane emissions monitoring, which supports efforts to reduce greenhouse gases.

By showcasing practical applications and real-world examples, the program will guide stakeholders in balancing industrial growth with environmental stewardship.

Program components: 1 keynote, 1 panel, 4 talks

Day 2 - Theatre 2

| Time | Speaker/Talk | Length | Activity |
|--|--|---------|----------|
| Tuesday October 29 01:15 PM - 01:45 PM | John Bowers of MDA Space - Space-based Maritime Monitoring for Sustainable Management of Ocean Resources | 30 min | Keynote |
| Tuesday October 29 02:15 PM - 02:45 PM | Andrea Krupa of PhotoSat - How Topography Affects Flood Mapping and Dam Breach Analysis | 30 min | Talk |
| Tuesday October 29 02:45 PM - 03:15 PM | | Break | Break |
| Tuesday October 29 03:15 PM - 03:45 PM | Warren Shaw of GHGsat - Mapping Industrial Methane Emissions Using Space-based and Airborne Instruments | 30 min | Talk |
| Tuesday October 29 04:00 PM - 04:30 PM | John Roos of Maxar - Harnessing the supercharged Maxar constellation for energy | 30 min | Talk |
| Tuesday October 29 04:00 PM - 06:00 PM | Meetup | 120 min | Social |

Day 3 - Talk in theatre 2, panel in panel theatre

| Time | Speaker/Talk | Length | Activity |
|--|--|--------|----------|
| Wednesday October 30 01:00 PM - 01:50 PM | Panel | 30 min | Panel |
| Wednesday October 30 02:45 PM - 03:15 PM | Putting Earth Observation Technology to Work | 30 min | Talk |
| Wednesday October 30 03:30 PM | Close | | Close |