



PROGRAMS



CANADA'S NATIONAL
GOGEOMATICS
EXPO  **2024**



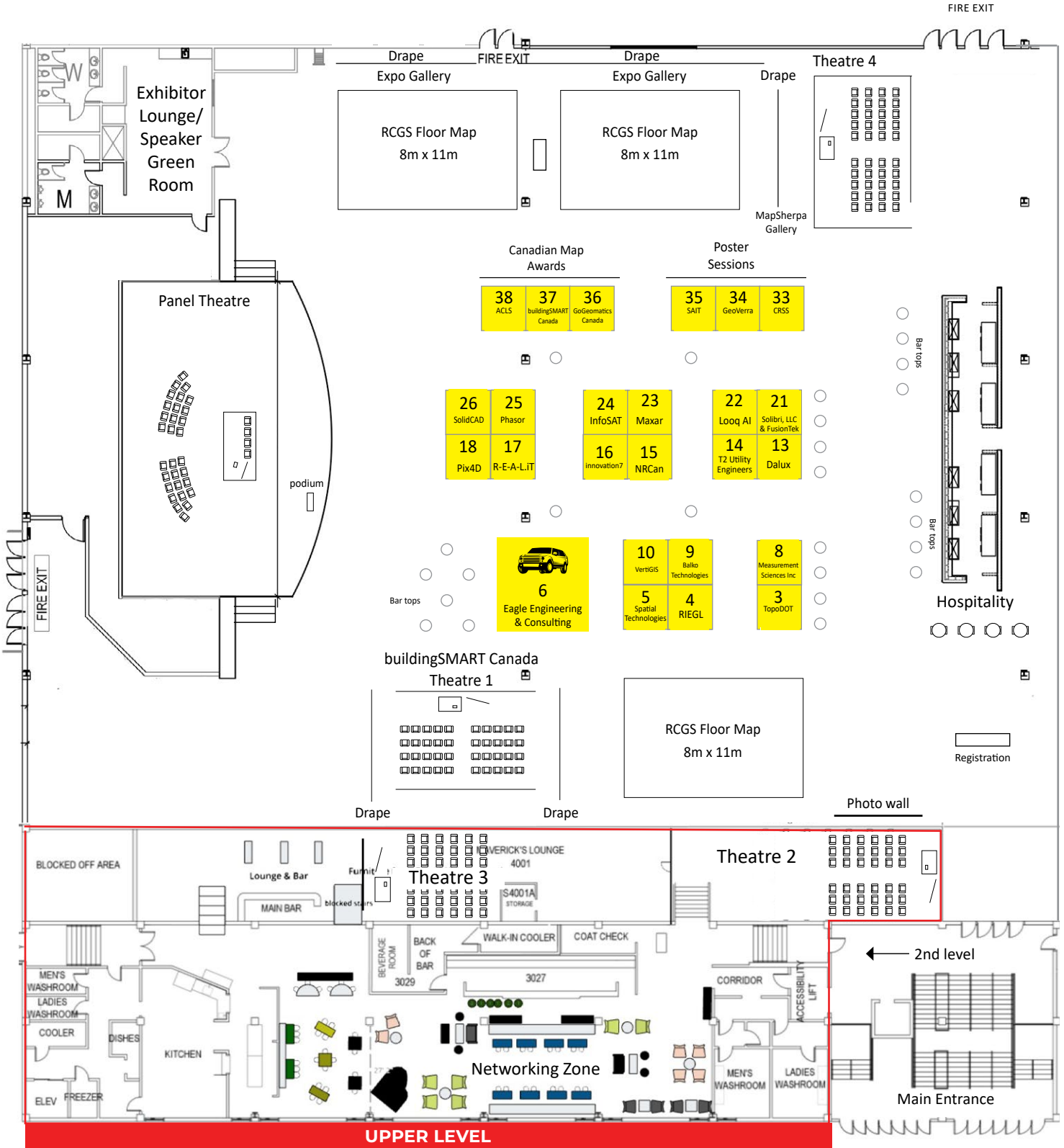
Annual BIM Summit 2024
Digital Transformation of the
Built Environment

October 28-30, 2024
Calgary, Alberta, Canada

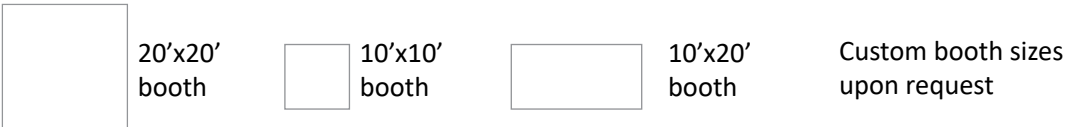
The Big Four Roadhouse
in the BMO Centre

GoGeomaticsExpo.com

Expo Floor Plan



UPPER LEVEL



* floorplan subject to change

Day 1 - October 28, 2024

Exhibitor Setup

Time 10:00 AM - 5:00 PM



Workshops

[Storytelling for Geomatics, Engineering, and More](#)

[Getting Started With Arc Hydro to Support Watershed Modelling Workshop](#)

[Detect and Classify objects using deep learning in ArcGIS Workshop](#)

OGC Canada Forum

This event will bring together key stakeholders from across Canada's geospatial sector, including industry leaders, academics, indigenous communities, government representatives, and technologists, to continue vital discussions on advancing geospatial standards, interoperability, and spatial data infrastructure (SDI) in Canada.

[Learn more](#)

Volunteer Pizza Party

Time 4:00 PM

GoGeomatics is hosting a pizza party for the volunteers setting up the Canada Maps and Poster Gallery at the National Geomatics Expo. It's a chance to enjoy some great food while connecting with fellow volunteers. After the event, you'll also have the opportunity to meet and mingle with exhibitors and speakers, providing a relaxed environment to network with industry professionals before the expo kicks off. Join us for a fun and rewarding evening!

Eagle Engineering & Consulting Networking Reception

Time 5:00 PM

Taking place on the expo main floor in the Big Four Roadhouse, this exclusive event offers an unparalleled opportunity to network with industry leaders, experts, and peers. Enjoy delicious snacks and canapés while you mingle, and take advantage of our cash bar to unwind and connect in a relaxed setting. Don't miss out on this fantastic kickoff event – [purchase your tickets](#) now and be part of an evening of engaging conversations and new collaborations!



[2023 LIST OF ATTENDEES](#)

[2023 LIST OF EXHIBITORS](#)

[2023 LIST OF RECRUITERS](#)

[2023 PHOTO GALLERY](#)

bSC Annual BIM Summit (2 day program)

Gold Summit Sponsor



Chairs: [Gordon McElravy](#) & [Bill Moore](#)

Description: This year's buildingSMART Canada summit will bring together professionals from the architecture, engineering, construction, and operation (AECO) industries, as well as leaders in geomatics, to explore the integration of building information modeling (BIM) and geospatial technologies. The collaboration highlights a shared commitment to advancing digital transformation and innovation across related sectors. Importantly bSC continues to engage the wider geomatics sector to raise the awareness of BIM and GIS interoperability and the future of digital twins.

Program Components: 3 keynotes, 1 panel, 11 talks

Day 2 - Theatre 1

Time	Speaker/Talk	Length	Activity
Tuesday October 29 09:00 AM - 09:30 AM	Claudia Cozzitorto - Imagining an openBIM future	30 min	Keynote
Tuesday October 29 09:45 AM - 10:30AM	BIM: One Size Does Not Fit All	45 min	Talk
Tuesday October 29 10:30 AM - 11:00 AM		30 min	Break
Tuesday October 29 11:00 AM - 11:30 AM	Mark Cichy - AI. A Professional's Perspective	30 min	Talk
Tuesday October 29 11:45 AM - 12:15 PM	David Watson - BIM & Specifications	30 min	Talk
Tuesday October 29 12:15 PM - 01:15 PM		60 min	Lunch
Tuesday October 29 01:15 PM - 01:45 PM	Prashant Shukle - The Open Geospatial Consortium at 30: Navigating new digital realities	30 min	Keynote
Tuesday October 29 02:00 PM - 02:30 PM	Karen Dolan & Mark Tivnan - BIM Indigenous Upskilling and Partnership Programs	30 min	Talk
Tuesday October 29 02:45 PM - 03:15 PM		30 min	Break
Tuesday October 29 03:15 PM - 03:45 PM	Nicolas Arellano Risopatron - Canada's Digital Twin - A national open source BIM/GIS platform	30 min	Talk
Tuesday October 29 04:00 PM - 04:30 PM	Bill Moore - Elevating openBIM and ISO knowledge: buildingSMART International Certification in Canada	30 min	Talk

Day 3 - Theatre 1

Time	Speaker/Talk	Length	Activity
Wednesday October 30 09:00 AM - 09:30 AM	Dale Booth - Indigenous Participation through BIM	30 min	Keynote
Wednesday October 30 09:45 AM - 10:15 AM	Hammad Chaudhry - The State of ConTech	30 min	Talk
Wednesday October 30 10:30 AM - 11:00 AM		30 min	Break
Wednesday October 30 11:00 AM - 11:30 AM	Claudia Cozzitorto - Digital Transformation for Bridges: Leveraging BIM and Open Standards for Improved Infrastructure Management	30 min	Talk
Wednesday October 30 11:45 AM - 12:15 PM	Victor Lima - Opportunities and Challenges for BIM adoption in Canada	30 min	Talk
Wednesday October 30 12:15 PM - 01:15 PM		60 min	Lunch
Wednesday October 30 01:15PM - 01:45 PM	Patrick Gallagher - Interconnectivity of BIM, GIS, & Reality, from Construction to Maintaining the Built World	30 min	Talk
Wednesday October 30 02:00 PM - 02:30 PM	Aleksandar Stevanovic - Empowering Owners Through IDS to IFC Validation: Transforming Organizational Data for Enhanced Control and Value	30 min	Talk
Wednesday October 30 02:45 PM - 03:30 PM	Realizing Digital Transformation in the Canadian Built Environment	45 min	Panel

Geomatics for the Public Good (1 day program)

Chair: Jonathan Murphy

Description: This program provides a platform for public servants to present their successful implementations of geomatic technologies. The program, will feature presentations from various departments demonstrating how geospatial innovations have addressed modern challenges and improved public welfare.

Program components: 1 keynote, 2 panel, 12 talks

Day 2 - Theatre 2

Time	Speaker/Talk	Length	Activity
Tuesday October 29 09:00 AM - 09:30 AM	Dr. Gordon Osinski - Why Space Matters to Canada	30 min	Keynote
Tuesday October 29 09:45 AM - 10:00 AM	Scott Vegter - Human Footprint Datasets for Alberta: Mapping and Monitoring in Support of Land and Resource Management	15 min	Talk
Tuesday October 29 10:00 AM - 10:15 AM	Jiaao Guo - Democratizing and Operationalizing Satellite-based Vegetation Recovery Monitoring in Canadian Boreal Forests	15 min	Talk
Tuesday October 29 10:15 AM - 10:30 AM	Sharlene Fritz - Pairing Geospatial Datasets with Local Knowledge for Landscape Management Planning in the Ghost Region of AB	15 min	Talk
Tuesday October 29 10:30 AM - 11:00 AM		30 min	Break
Tuesday October 29 11:00 AM - 11:15 AM	Jesse Viehweger - Lidar and AI Based Seismic Line Mapping in Caribou Ranges in Boreal Alberta, Canada "	15 min	Talk
Tuesday October 29 11:15 AM - 11:30 AM	Cynthia McClain - Fusion of Lidar and Machine Learning Methods for Vegetation Classification on Human Footprint Features in Boreal Alberta, Canada	15 min	Talk
Tuesday October 29 11:30 AM - 11:45 AM	Miguel Arias - Accuracy, Uncertainty and Biases in the Human Footprint Mapping in British Columbia	15 min	Talk
Tuesday October 29 11:45 AM - 12:00 PM	JPRamirez-Delgado - High-Resolution Human Pressure Mapping for Improved Cumulative Effects Assessment in British Columbia	15 min	Talk

Day 2 - Theatre 3

Time	Speaker/Talk	Length	Activity
Tuesday October 29 11:00 AM - 11:30 AM	Aaron Licker - Upgrading the Value of Your Data Using Geospatial Analysis	30 min	Talk
Tuesday October 29 11:45AM - 12:15 AM	Kris Kwiatkowski - Empowering Project Lifecycles with Geomatics Positioning for Enhanced Data Utilization	30 min	Talk

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

Time	Speaker/Talk	Length	Activity
Wednesday October 30 01:15 PM - 01:45 PM	Carina Butterworth - The Effect of Creative Teaching and Radical Constructivism in Geomatics Education	30 min	Talk
Wednesday October 30 02:00 PM - 02:30 PM	Kenneth Ang - Multi Disciplinary Geomatics for Environmental Mangement	30 min	Talk

Day 3 - Theatre 4

Time	Speaker/Talk	Length	Activity
Wednesday October 30 02:45 PM - 03:15 PM	Victoria Fast -Transforming Urban Accessibility with Geospatial Solutions	30 min	Talk

Day 2 & 3 panels in panel theatre

Time	Panel	Length	Activity
Tuesday October 29 03:15 PM - 04:05 PM	Public Good Break	50 min	Panel
Wednesday October 30 10:00 AM 10:45 AM	Geo-Entrepreneurship: Navigating Your Geospatial Business	50 min	Panel

Geospatial AI

(Half day program)

Chair: [Peter Srajer](#)

Description: The program aims to explore various dimensions of machine learning and artificial intelligence focusing on geospatial applications as well as technology Geospatial AI is transforming the speed at which we extract meaning from complex datasets, thereby aiding us in addressing the earth's most pressing challenges. It reveals and helps us perceive intricate patterns and relationships in a variety of data. We will dive into the potential of geomatics in addressing this exciting new field.

Program components: 1 keynote, 1 panel, 4 talks

Day 2 - Talks in theatre 4, panel in panel theatre

Time	Speaker/Talk	Length	Activity
Tuesday October 29 09:00 AM - 09:30 AM	Geospatial AI break	30 min	Break
Tuesday October 29 09:45 AM - 10:15 AM	Peter Srajer - Geospatial Data and Artificial Intelligence – a project dive into GeoAI	30 min	Talk
Tuesday October 29 10:30 AM - 11:00 AM		30 min	Break
Tuesday October 29 11:00 AM - 11:30 AM	Mohammed Ahmed - Missing Road Detection Using Deep Learning Techniques in ArcGIS	30 min	Talk
Tuesday October 29 11:45 AM - 12:15 PM	Marie-Josée Valiquette - Advancing The Flood Hazard Identification And Mapping Program (FHIMP): Innovation In Hazard Data Dissemination And Adaptation	30 min	Talk
Tuesday October 29 12:15 PM - 01:15 PM	Lunch	60 min	
Tuesday October 29 02:15 PM - 03:05 PM	Panel - Unlocking Efficiency: Harnessing Artificial Intelligence (AI) in Infrastructure and Utility Modeling	50 min	Panel
Tuesday October 29 04:30 PM - 05:00 PM	Bryn Fosburgh - AI & Geomatics: The Next Digital Revolution	30 min	Keynote

Day 3 - Theatre 2

Time	Speaker/Talk	Length	Activity
Wednesday October 30 11:00 AM - 11:30 AM	Jeff Benjamin - Leveraging UAVs and GIS Machine Learning to Support Airport Runway Rehabilitations	30 min	Talk

Hydrospatial for Water Resilience Program

(1 day program)

Chair: [Mark Empey](#)

Description: The program aims to explore various dimensions of water resilience, focusing on the integration of geospatial technologies. From flood risk management to bathymetry and geospatial water datasets, we will dive into the potential of geomatics in addressing pressing water challenges.

Program components: 2 keynotes, 1 panel, 5 talks

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

Time	Speaker/Talk	Length	Activity
Tuesday October 29 09:00 AM - 09:30 AM	Pierre Tardiff - The new Canadian Hydrospatial Network (CHN)	30 min	Talk
Tuesday October 29 09:45AM - 10:15 AM	Matt Holland - Mapping and Managing of Resources in the Marine Environment	30 min	Talk
Tuesday October 29 10:30 AM - 11:00 AM		30 min	Break
Tuesday October 29 11:00 AM - 11:50 AM	Panel - Leveraging Geospatial Technology for Informed Water Policy		Panel
Tuesday October 29 12:15 PM - 01:15 PM		60 min	Lunch
Tuesday October 29 01:15 PM - 01:45 PM	Dr. Zahidul Islam & Tachara Larocque - Alberta's Flood Hazard and Fluvial Hazard Identification Initiatives	30 min	Keynote
Tuesday October 29 02:00 PM - 02:30PM	Mary Ellen Shain - Riparian Web Portal: Harnessing Geomatics for Watershed Conservation	30 min	Talk
Tuesday October 29 02:45 PM - 03:15 PM		30 min	Break
Tuesday October 29 03:15 PM - 03:45 PM	Jennifer Hird - Monitoring algal blooms on small to medium Alberta lakes with satellite remote sensing	30 min	Talk
Tuesday October 29 04:00 PM - 04:30 PM		30 min	Talk
Tuesday October 29 05:00 PM - 06:30 PM		90 min	Social

Day 3 - Theatre 3

Time	Speaker/Talk	Length	Activity
Wednesday October 30 02:45 PM - 03:15 PM	Dr. Chris Hopkinson - Testing a Lidar-Based Sampling and Imputation Framework to Model Regional-Scale Mountain Snow Water Equivalent for Drought Mitigation	30 min	Keynote

Reality Capture & Digital Twins

(1 day program)

Chairs: [Alex Hill-Stosky](#)

Description: The 2024 Reality Capture Program invites contributions from professionals, researchers, and enthusiasts involved in advancing reality capture technologies. We seek insights on projects and solutions in Quasi-Terrestrial Lidar, including terrestrial, kinematic, human-carried, and robotic scanners, as well as mobile mappers. Additionally, we welcome discussions on photogrammetry, encompassing UAV, mobile, and innovative applications beyond traditional uses. This program aims to share knowledge, showcase innovative projects, and foster industry advancements.

Program components: 1 keynote, 1 panel, 6 talks

Day 2 - Theatre 4 Info: 1 keynote, 3 talks

Time	Speaker/Talk	Length	Activity
Tuesday October 29 01:15 PM - 01:45 PM	Pete Kelsey - Reality Capture for Entertainment	30 min	Keynote
Tuesday October 29 02:00 PM - 02:30 PM	Karina Delcourt - The Gaps in between BIM, VDC and Digital Twins	30 min	Talk
Tuesday October 29 02:45 PM - 03:15 PM		30 min	Break
Tuesday October 29 03:15 PM - 03:45 PM	Kelsey Green - The Impact of Reality Capture on Infrastructure Asset Management.	30 min	Talk
Tuesday October 29 04:00 PM - 04:30 PM	Pete Kelsey - Capturing Alacataz: A Once in a Career Gathering of Talent and Tech	30 min	Talk
Tuesday October 29 05:00 PM - 06:30 PM			Social

Day 3 - Theatre 2 Info: 1 panel, 3 talks

Time	Speaker/Talk	Length	Activity
Wednesday October 30 09:00 AM - 09:30 AM	Mark Kowalski - Results of Accuracy Testing for Laser Scanners in Concrete Verificaion	30 min	Talk
Wednesday October 30 09:45 AM - 10:15 AM	Kyle Pickering - Virtual Assembly for Heavy Industrial Projects	30 min	Talk
Wednesday October 30 11:00 AM - 11:50 AM	Panel: Reality Capture - Current & Future Applications by 2030	50 min	Panel
Wednesday October 30 11:45 AM - 12:15 PM	Alex Hill-Stosky & Carina Butterworth - CanSLAM 2024 Results	30 min	Talk

Remotely Piloted Aircraft Systems (RPAS)

(Half day program)

Chair: [Kenneth Ang](#)

Description: As an increasingly essential component of the Geospatial professional's toolkit, the focus of this year's program is to explore innovative applications, technological advancements, and new regulatory frameworks shaping the industry.

Program components: 1 panel, 1, keynote 3 talks

Day 3 - Talks in theatre 4, panel in panel theatre

Time	Speaker/Talk	Length	Activity
Wednesday October 30 09:00 AM - 09:50 AM	Panel - The Evolutionary Nature of RPAS Sensor Development	50 min	Panel
Wednesday October 30 10:00 AM - 10:30 AM	Ashley Reade - Terrestrial Photogrammetry	30 min	Talk
Wednesday October 30 10:30 AM - 11:00 AM		30 min	Break
Wednesday October 30 11:00 AM - 11:30 AM	Dr. Tim Webster - Advances in Drone Positioning and a Comparison of L1 and L2 Lidars and Thermal Sensors with Multiple Applications	30 min	Talk
Wednesday October 30 11:45 AM - 12:15 PM	Graham Anderson - The Earth Imagery Upgrade - Small Drones, Big Pictures	30 min	Talk
Wednesday October 30 12:15 PM - 01:15 PM		60 min	Lunch
Wednesday October 30 01:15 PM - 01:45 PM	Johnathan Smeh - Custom Sensor Integration: Advancing RPAS Sensor Development with the Velos Rotors V3 UAV for Transportation Application	30 min	Talk
Wednesday October 30 02:00 PM - 02:30 PM	Construction Technology - Visual Intelligence & Reality Capture Convergence	30 min	Talk

Subsurface Utility Engineering Advances

(Half day program)

Chair: [Peter Srajer](#)

Description: This program encompasses a wide range of topics, including effective collection of subsurface utilities data, sophisticated mapping and modeling techniques tailored for SUE, and the application of geospatial technologies in utilities collection and mapping. It will also delve into critical infrastructure protection, focusing on the latest sensor technologies such as ground penetrating radar, and the integration of AI and machine learning for enhanced data analysis. Furthermore, the track will address crucial regulatory and governance issues, adhering to ASCE and CSA standards.

Program components: 1 keynote, 1 panel, 4 talks

Day 3 - Talks in theatre 3, panel in panel theatre

Time	Speaker/Talk	Length	Activity
Wednesday October 30 09:00 AM - 09:30 AM	Santosh Saride - 3D GIS Mapping is key for Future Utility Damage Prevention	30 min	Talk
Wednesday October 30 09:45 AM - 10:15 PM	Andrew Walter - City of Kelowna How Can You Manager Your Assets If You Don't Have the Data?	30 min	Talk
Wednesday October 30 10:30 AM - 11:00 AM		30 min	Break
Wednesday October 30 11:00 AM - 11:30 PM	Marvin Mudahy - Utility Mapping With Terraflow	30 min	Talk
Wednesday October 30 12:00 PM - 12:45 PM	Panel: Unlocking the Value of SUE: Standards, Liability, and Integration with SUMDEX	30 min	Panel
Wednesday October 30 12:15 PM - 01:15 PM		60 min	Lunch
Wednesday October 30 01:15 PM - 01:45 PM	Steve Slusarenko - Why the World needs a Subsurface Utility Map Data Exchange	30 min	Talk
Wednesday October 30 02:00 PM - 02:30 PM	Peter Srajer - Subsurface Utility Data – From Field Collection to 3D Modelling	30 min	Keynote

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 05:00 PM - 06:30 PM		90 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	AVAILABLE	30 min	Talk
Wednesday October 30 03:30 PM	Close		Close

PANELS

(for reference)

Day 2 - Panel Theatre

Day 3 - Panel Theatre

Fast Pitches

Chairs: [Mary Jo Wagner](#) & [Gavin Shrock](#)

Description: Got a cool geomatics product, service, student project, or academic/science research project/paper? Pitch it to a select panel of geomatics press and industry experts at the GoGeomatics expo.

Top picks will have their pitch written up as an online article published and promoted by GoGeomatics.

You'll have 3 minutes to make your presentation, with 2 minutes of questions from the panel. You can present a PowerPoint, do a live demonstration, or just do your best "standup pitch". This will be a fun way to practice your best rapid-fire pitch, inform the audience, and get a chance for broader exposure in the geomatics/geospatial community.

Day 2 - Theatre 1

Tuesday October 29, 09:45 AM - 10:45 AM

The Canada Maps & Poster Gallery

Chair: [Ted MacKinnon](#)

Description: "Canada Maps" traveling map gallery project. This effort, a partnership between the International Map Industry Association (IMIA), the Canadian Cartographic Association, and GoGeomatics Canada, demonstrates the profound impact of cooperation in advancing cartography.

The gallery provides a platform for professionals and students alike to receive feedback, engage with peers, and gain recognition for their work. Such interactions are invaluable for personal and professional development.

Located on the trade show floor.

Day 2 - Trade show floor

Tuesday October 29, 08:00 AM - 06:00 PM



GOGEOMATICS
CANADA



IMIA
INTERNATIONAL
MAP INDUSTRY
ASSOCIATION
www.imiamap.org



Canadian Cartographic
Association



MapSherpa

Day 3 - Trade show floor

Wednesday October 30, 08:00 AM - 04:00 PM

Awards Program

Chair: [Jonathan Murphy](#)

Description: The awards program aims to recognize and honor standout achievements in the geomatics field, spotlighting individuals and companies who demonstrate leadership, innovation, and forward-thinking. When we talk about geomatics we are talking about a big tent. Anything related to location technologies and the science of "where" are great.

[Cast your vote](#)

Day 3 - Panel Theatre

Wednesday October 30, 2:00 PM - 2:30 PM