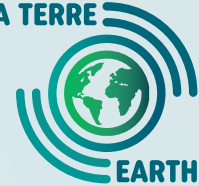


PROGRAMME PROGRAM

SOMMET 2017
OBSERVATION DE LA TERRE



EARTH OBSERVATION
SUMMIT 2017

PRÉSENTÉ PAR / PRESENTED BY

AIRBUS

20 AU 22 JUIN 2017
JUNE 20 TO 22, 2017

**CŒUR DES SCIENCES DE L'UNIVERSITÉ
DU QUÉBEC À MONTRÉAL (UQÀM)**

ORGANISÉ PAR / ORGANIZED BY

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MOT DE BIENVENUE WELCOME MESSAGE

CHERS MEMBRES DE LA COMMUNAUTÉ DE L'OBSERVATION DE LA TERRE,

C'est avec grand plaisir que nous vous accueillons à Montréal, à l'occasion des célébrations de son 375^{ième} anniversaire et de celui du 150^{ième} de la Confédération canadienne.

Pour la première fois, la société canadienne de télédétection (SCT), L'Association Québécoise de Télédétection (L'AQT), l'Atelier Advanced SAR (ASAR) ainsi que l'Association de Géomatique Municipale du Québec (AGMQ), s'unissent pour présenter un Sommet exceptionnel sur l'observation de la Terre (OT) et sont fières de regrouper les communautés qui s'intéressent à ses technologies, ses applications et ses bénéfices pour la société.

Dans les années 1970 au Canada, l'OT a bénéficiée d'une forte approbation politique en raison de son grand potentiel pour des applications primordiales comme la surveillance des navires, l'état de la mer et des glaces ainsi que pour l'Arctique et les océans. Cet engagement a conduit au développement du programme RADARSAT et de sa série de satellites.

De la géolocalisation sur nos téléphones cellulaires aux rapports météorologiques instantanés, aujourd'hui les images satellite sont partout. Les données d'OT sont indispensables autant dans notre quotidien que pour relever les défis globaux du développement économique durable. Les applications de l'OT et leurs bénéfices pour la société sont immenses. Ils contribuent notamment à faire le suivi des environnements terrestres, à minimiser les impacts liés aux dérèglements climatiques, à soutenir les décideurs et à maintenir la sécurité et le bien-être des générations futures dans un monde en constante évolution.

Le Sommet de l'OT rassemble plus de 500 scientifiques, professionnels ainsi que des chefs de file industriels et gouvernementaux de partout au Canada et de plus de 25 pays. Pendant 5 jours, ils vont présenter leurs derniers travaux sur la gestion des catastrophes, la foresterie, la santé, l'océanographie, l'hydrologie, le Nord, l'agriculture,

la gestion des ressources, la géologie, les mises à jour de la Mission de la Constellation RADARSAT (MCR), les innovations et les avancées sur le SAR, le « Big Data », les applications des drones, la gestion des villes intelligentes et plus encore.

Nous croyons fermement que le Sommet OT 2017 va générer des discussions fructueuses, des idées novatrices ainsi que des collaborations prometteuses.

Au nom du comité organisateur et de nos affiliations respectives, nous vous accueillons chaleureusement au Sommet de l'OT 2017.

SOMMET DE L'OT 2017 – CO-PRÉSIDENTS



MARTIN BERGERON
Représentant du Symposium
Canadien de Télédétection (SCT)



LAURENT GIUGNI
Président de l'Association
Québécoise de Télédétection (l'AQT)



PATRICK PLOURDE
Représentant de l'Atelier Advanced SAR
(ASAR)

DEAR MEMBERS OF THE EARTH OBSERVATION (EO) COMMUNITY,

It is with great pleasure that we welcome you to Montreal during its 375th anniversary and during the 150th Canadian confederation's celebrations.

For the first time, the Canadian Symposium on Remote Sensing (CSRS), L'Association Québécoise de Télédétection (L'AQT), the Advanced SAR Workshop (ASAR) and the Association de Géomatique Municipale du Québec (AGMQ) unite to present an exceptional Summit on Earth Observation (EO) and are proud to assemble communities interested in its technologies, its applications and its societal benefits.

In the 1970s, EO received a strong political endorsement because of its huge potential for many Canadian critical applications such as ship monitoring, sea-ice state, Arctic and oceans. This commitment led to the development of the RADARSAT Program and its series of satellites.

Today, from geolocation on cell phones to instant weather reports, satellite images are everywhere. EO data has become an integral part of our everyday life and is essential to meet the challenges of the global and sustainable economic development. The societal benefits of EO applications are just phenomenal. They are notably critical in measuring and monitoring the Earth environment, in minimizing climatic disorder's impacts, in supporting decision makers as well as in maintaining the safety and the well being of our future generations in an ever-changing world.

The EO Summit is bringing together more than 500 scientists, professionals, as well as governmental and industrial leaders from across Canada and 25 foreign nations. Throughout this 5-days event, they will present their latest works on disaster-management, forestry, health, oceanography, hydrology, the North, agriculture, resources' management, sustainable development, atmosphere, geology, updates on the RADARSAT Constellation Mission (RCM) along with advanced SAR innovations and research, but also on big data, UAVs' applications, smart cities' management and more.

We strongly believe that the EO Summit 2017 will generate fruitful discussions, innovative ideas and promising collaborations.

On behalf of the organizing committee and our respective affiliations, we warmly welcome you to the EO Summit 2017.

EO SUMMIT 2017 – CO-CHAIRS



MARTIN BERGERON
Canadian Remote Sensing
Society (CRSS) representative



LAURENT GIUGNI
L'Association Québécoise de
Télédétection President (l'AQT)



PATRICK PLOURDE
Advanced SAR (ASAR) Workshop
Representative

TANT D'ÉNIGMES ~~NON~~ RÉVOLUES.



Exploration des confins de l'espace, observation de notre Terre, cartographie de chaque étoile de notre galaxie, recensement des arbres d'Amazonie: nous contribuons à maints égards à apporter des réponses aux grandes questions que se pose l'humanité depuis plus d'un demi-siècle. Nos technologies spatiales ont eu un impact exponentiel sur notre quotidien - de notre façon de préserver notre planète à celle de nous connecter. Rien d'étonnant à ce que les esprits les plus aiguisés à travers le monde fassent appel à nous. Question suivante ?

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AIRBUS**

PROGRAMME EN UN COUP D'OEIL PROGRAM AT A GLANCE

AUTRES ÉVÉNEMENTS – LUNDI 19 JUIN 2017 OTHER EVENTS – MONDAY, JUNE 19, 2017			
HEURE / TIME	ÉCOLE D'ÉTÉ / SUMMER SCHOOL SH-3620 (UQAM)	HEURE / TIME	DÉMONSTRATIONS DE DRONES / UAVS DEMONSTRATION DRONE VOLT À LAVAL
8H45 - 9H00	BIENVENUE / WELCOME (Prof. Brigitte Leblon)	8H45	Départ du centre de conférences de l'UQAM au 200 Sherbrooke ouest Departure from UQAM Conference Center, 200 Sherbrooke West
9H00 - 10H05	Use of optical and radar remote sensing for environmental applications – Presentation of an Online course for radar remote sensing training	9H45	Arrivée chez Drone Volt Arrival at Drone Volt
10H05 - 10H15	PAUSE / BREAK	10H00	Démonstration des vols et acquisitions d'images UAV Flights and Image Acquisitions' Demonstrations
10H15 - 11H15	Drones in the service of the agriculture sector	12H00	DÎNER (INCLU) / LUNCH (INCLUDED)
11H15 - 12H15	Imagerie hyperspectrale visible, proche-infrarouge et thermique en milieu urbain	12H30	Démonstration des vols et acquisitions d'images UAV Flights and Image Acquisitions' Demonstrations
12H15 - 13H15	DÎNER / LUNCH	15H45	Cocktail réseautage Networking Cocktail
13H15 - 14H15	SAR-EDU – An Education Initiative for Applied Radar Remote Sensing on behalf of DLR	17H00	Départ vers le centre de conférences Departure to Conference Center
14H15 - 15H15	Remote sensing of vegetation		
15H15 - 15H30	PAUSE / BREAK		
15H30 - 16H30	Hyperspectral image analysis – examples from the Mer Bleue Arctic Surrogate Simulation Site		
16H30 - 17H00	Conclusion – Diplôme – Photo de groupe Wrap-up – Degree presentation – Picture		
18H00 - 19H30	POINT DE PRESSE sur les inondations du Québec au printemps 2017 et ANNONCE DE L'OUVERTURE DU SOMMET D'OBSERVATION DE LA TERRE Salle / room: Agora		

JOUR 1 – MARDI 20 JUIN 2017
DAY 1 – TUESDAY, JUNE 20, 2017

SESSION	SALLE / ROOM				
	AMPHI.	1 : SH-R810	2 : SH-2420	3 : SH-3620	4 : SH-3420
7H30 - 17H00	INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) / UQAM Entrance Hall (SH Building)				
PLÉNIÈRE D'OUVERTURE PLENARY SESSION 9H - 10H30	Conférenciers d'honneur Keynote speakers				
10H30 - 11H00	PAUSE / BREAK Salle / Room : Polyvalente				
#1 11H - 12H20	Session Plénière ASAR ASAR Plenary Session	Application des drones en agriculture UAV in agriculture	Forêts Forest	Champs pétroliers et sables bitumineux Oil Field and Oil Sand Monitoring	Utilisation du Lidar pour l'inventaire et l'écologie forestière #1 Use of Lidar in forest inventory and ecology #1
12H20 - 13H30	DÎNER / LUNCH Salle / Room : Polyvalente				
12H30 - 13H00	Conférencier d'honneur Keynote speaker			Table ronde: défis pour la prochaine génération de satellites RSO Panel discussion: challenges for next generation SAR Boîtes repas disponibles / Lunch box available	
#2 13H30 - 14H50	Missions RSO #1 SAR Missions #1	Application des drones en écologie Ecological applications of UAVs	Atmosphère Atmosphere	Cryosphère Cryosphere	Utilisation du Lidar pour l'inventaire et l'écologie forestière #2 Use of Lidar in forest inventory and ecology #2
14H50 - 15H30	PAUSE / BREAK Salle / Room : Polyvalente				
#3 15H30 - 16H50	Missions RSO #2 SAR Missions #2	Applications des drones le long des côtes UAVs along the coast	Méthodes de classification Classification methods	Plateformes d'accès aux méga-données et services d'Observation de la Terre EO big data and services access platforms	Utilisation du Lidar pour l'inventaire et l'écologie forestière #3 Use of Lidar in forest inventory and ecology #3
PLÉNIÈRE DE CLÔTURE PLENARY SESSION 17H00 - 18H00	Conférencier d'honneur Keynote speaker				
18H00 - 20H00	COCKTAIL D'OUVERTURE / ICE-BREAKER COCKTAIL Salle / Room : Agora				

JOUR 1 – MARDI 20 JUIN 2017
DAY 1 – TUESDAY, JUNE 20, 2017

SALLE / ROOM					
5 : SH-3140	6 : SH-3120	7 : SH-3220	8 : SH-2620	AGORA	CHAUFFERIE
INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) / UQAM Entrance Hall (SH Building)					
PAUSE / BREAK Salle / Room : Polyvalente					
			Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier sur la Commercialisation de l'Observation de la Terre Commercialization of Earth Observation Workshop
DÎNER / LUNCH Salle / Room : Polyvalente					
Développement urbain Urban Development			Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier sur la Commercialisation de l'Observation de la Terre Commercialization of Earth Observation Workshop
PAUSE / BREAK Salle / Room : Polyvalente					
Milieux humides Wetland			Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier sur la Commercialisation de l'Observation de la Terre Commercialization of Earth Observation Workshop
COCKTAIL D'OUVERTURE / ICE-BREAKER COCKTAIL Salle / Room : Agora					

JOUR 2 – MERCREDI 21 JUN 2017
DAY 2 – WEDNESDAY, JUNE 21, 2017

SESSION	SALLE / ROOM				
	AMPHI.	1 : SH-R810	2 : SH-2420	3 : SH-3620	4 : SH-3420
8H00 - 17H00	INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) /UQAM Entrance Hall (SH Building)				
PLÉNIÈRE D'OUVERTURE PLENARY SESSION 8H45 - 10H30	Table ronde sur les bénéfices sociétaux en observation de la Terre Keynote panel on Societal benefits of Earth Observation				
10H30 - 11H00	PAUSE / BREAK Salle / Room : Polyvalente				
#4 11H - 12H20	Mission de la Constellation Radarsat #1 RADARSAT Constellation Mission #1	Méthodes polarimétriques avancées Advanced Polarimetric methods	Téledétection hyperfréquence de la cryosphère #1 Microwave remote sensing of the cryosphere #1	Interférométrie RSO appliqué aux géorisques InSAR applied to Geohazards	Sécurité maritime et applications #1 Maritime Security and Applications #1
12H20 - 13H30	DÎNER / LUNCH Salle / Room : Polyvalente				
12H30 - 13H00					
#5 13H30 - 14H50	Mission de la Constellation Radarsat #2 RADARSAT Constellation Mission #2	PolinSAR PolinSAR	Téledétection hyperfréquence de la cryosphère #2 Microwave remote sensing of the cryosphere #2	Coopération JAXA-ASC dans la surveillance des désastres à l'aide des satellites RSO #1 JAXA-CSA Co-operation in SAR Satellite disaster monitoring #1	Sécurité maritime et applications #2 Maritime Security and Applications #2
14H50 - 15H30	PAUSE / BREAK Salle / Room : Polyvalente				
#6 15H30 - 16H50	Missions RSO #3 SAR Missions #3	Traitement d'images polarimétriques Polarimetric SAR Processing	Téledétection hyperfréquence de la cryosphère #3 Microwave remote sensing of the cryosphere #3	Coopération JAXA-ASC dans la surveillance des désastres à l'aide des satellites RSO #2 JAXA-CSA Co-operation in SAR Satellite disaster monitoring #2	Sécurité maritime et applications #3 Maritime Security and Applications #3
PLÉNIÈRE DE CLÔTURE PLENARY SESSION 17H00 - 18H00	Conférencier d'honneur Keynote speaker				
18H30 - 23H00	SOUPER BANQUET / DINNER BANQUET Offert par / Offered by: MDA Systems Ltd. Salle / Room: Hall Panoramique, Centre des sciences de Montréal				

HORAIRE
DES NAVETTES
À LA P. 19
SHUTTLE BUS
SCHEDULE
ON P. 19

JOUR 2 – MERCREDI 21 JUN 2017
DAY 2 – WEDNESDAY, JUNE 21, 2017

SALLE / ROOM					
5 : SH-3140	6 : SH-3120	7 : SH-3220	8 : SH-2620	AGORA	CHAUFFERIE
INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) /UQAM Entrance Hall (SH Building)					
					Atelier Une planète – Une santé Workshop One Earth – One Health
PAUSE / BREAK Salle / Room : Polyvalente					
Cartographie des zones inondables #1 Flood plain mapping with EO #1		Innovation dans l'utilisation des drones en sciences naturelles Innovative UAVs uses in natural sciences	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier Une planète – Une santé Workshop One Earth – One Health
DÎNER / LUNCH Salle / Room : Polyvalente					
				Conférencier d'honneur Keynote speaker	
Cartographie des zones inondables #2 Flood plain mapping with EO #2	Q&R étudiant Student Q&A	RSO pour la sécurité SAR for safety and security	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier Une planète – Une santé Workshop One Earth – One Health
PAUSE / BREAK Salle / Room : Polyvalente					
Cartographie des zones inondables #3 Flood plain mapping with EO #3		Drones pour le diagnostic, le suivi, et la gestion des forêts. UAV for forest assessment, monitoring and management	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop		Atelier Une planète – Une santé Workshop One Earth – One Health
SOUPER BANQUET / DINNER BANQUET Offert par / Offered by: MDA Systems Ltd. Salle / Room: Hall Panoramique, Centre des sciences de Montréal					

**JOUR 3 – JEUDI 22 JUN 2017
DAY 3 – THURSDAY, JUNE 22, 2017**

SESSION	SALLE / ROOM				
	AMPHI.	1 : SH-R810	2 : SH-2420	3 : SH-3620	4 : SH-3420
7H45 - 17H00	INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) /UQAM Entrance Hall (SH Building)				
PLÉNIÈRE D'OUVERTURE PLENARY SESSION 8H15 - 9H00	Conférenciers d'honneur Keynote speakers				
#7 9H10 - 10H30	Téledétection RSO de prochaine génération pour les glaces marines et de leurs propriétés #1 Next-generation SAR remote sensing of sea ice and ice features #1	Collaboration ASC-DLR: Synergie des données en bande C & X #1 CSA-DLR Collaboration: C & X Band Data Synergies #1	Calibration et validation #1 Calibration & Validation #1	Biodiversité Biodiversity	Milieux humides et eaux intérieures Inland waters and Wetlands
10H30 - 11H00	PAUSE / BREAK Salle / Room : Polyvalente				
#8 11H00 - 12H20	L'histoire de la télédétection au Canada History of Remote Sensing in Canada	Collaboration ASC-DLR: Synergie des données en bande C & X #2 CSA-DLR Collaboration: C & X Band Data Synergies #2	Calibration et validation #2 Calibration & Validation #2	Surveillance RSO des milieux humides #1 SAR Water and Wetlands Monitoring #1	Imageur Canadien pour les eaux côtières et intérieures Canadian Imager for coastal and inland waters
12H20 - 13H30	DÎNER / LUNCH Salle / Room : Polyvalente				
12H30 - 13H00	Conférenciers d'honneur Keynote speakers				
#9 13H30 - 14H50	Téledétection RSO de prochaine génération pour les glaces marines et de leurs propriétés #2 Next-generation SAR remote sensing of sea ice and ice features #2	Collaboration ASC-DLR: Synergie des données en bande C & X #3 CSA-DLR Collaboration: C & X Band Data Synergies #3	Aire de conservation de la Mer Bleue pour la calibration/validation de satellites optiques Mer Bleue Peatlands for Optical Satellite Cal/Val	Surveillance RSO des milieux humides #2 SAR Water and Wetlands Monitoring #2	Eaux cotières Coastal waters
14H50 - 15H30	PAUSE / BREAK Salle / Room : Polyvalente				
#10 15H30 - 16H50	Téledétection RSO de prochaine génération pour les glaces marines et de leurs propriétés #3 Next-generation SAR remote sensing of sea ice and ice features #3	Collaboration ASC-DLR: Synergie des données en bande C & X #4 CSA-DLR Collaboration: C & X Band Data Synergies #4	Géologie Geology	Surveillance RSO des milieux humides #3 SAR Water and Wetlands Monitoring #3	Bathymétrie et température de surface des océans Bathymetry and SST
PLÉNIÈRE DE CLÔTURE PLENARY SESSION 17H00 - 18H00	Conférencier d'honneur Keynote speaker				

**JOUR 3 – JEUDI 22 JUN 2017
DAY 3 – THURSDAY, JUNE 22, 2017**

SALLE / ROOM					
5 : SH-3140	6 : SH-3120	7 : SH-3220	8 : SH-2620	AGORA	CHAUFFERIE
INSCRIPTION / REGISTRATION Hall d'entrée UQAM (pavillon SH) /UQAM Entrance Hall (SH Building)					
				Assemblée générale des membres de l'AGMQ AGMQ Members general assembly	
L'observation de la Terre en français Earth Observation in French		Applications polarimétriques avancées Advanced Polarimetric Applications	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop	Colloque AGMQ: Les technologies sur l'Observation de la Terre appliquées au monde municipal et régional AGMQ Seminar: Earth observation technologies applied to the municipal and regional world	Colloque AGMQ: Vitrine technologique AGMQ Seminar: technology showcase
PAUSE / BREAK Salle / Room : Polyvalente					
RSO pour la caractérisation du pergélisol SAR for Permafrost Characterization		Applications de la constellation RADARSAT RADARSAT Constellation Mission Applications	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop	Colloque AGMQ: Les technologies sur l'Observation de la Terre appliquées au monde municipal et régional AGMQ Seminar: Earth observation technologies applied to the municipal and regional world	Colloque AGMQ: Vitrine technologique AGMQ Seminar: technology showcase
	Rencontre d'association : AGA SCT Meeting of association: CRSS AGM	DÎNER / LUNCH Salle / Room : Polyvalente			
Agriculture #1 Agriculture #1		Polarimétrie compacte Compact Polarimetry	Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop	Colloque AGMQ: Les technologies sur l'Observation de la Terre appliquées au monde municipal et régional AGMQ Seminar: Earth observation technologies applied to the municipal and regional world	Colloque AGMQ: Vitrine technologique AGMQ Seminar: technology showcase
	Rencontres d'associations: AGA de l'AQT Meetings of associations: l'AQT AGM	PAUSE / BREAK Salle / Room : Polyvalente			
Agriculture #2 Agriculture #2			Atelier Télédétection et incendies de forêt Wildfire Remote Sensing Workshop	Colloque AGMQ: Les technologies sur l'Observation de la Terre appliquées au monde municipal et régional AGMQ Seminar: Earth observation technologies applied to the municipal and regional world	Colloque AGMQ: Vitrine technologique AGMQ Seminar: technology showcase

AUTRES ÉVÉNEMENTS — VENDREDI 23 JUIN 2017
OTHER EVENTS — FRIDAY, JUNE 23, 2017

HEURE / TIME	TUTORIAL SAR SH-3620 (UQAM)
8H00 - 9H00	INSCRIPTION / REGISTRATION
9H00 - 10H30	Interferometric Processing
10H30 - 11H00	PAUSE / BREAK
11H00 - 12H30	Space-based GMTI radar
12H30 - 13H30	DÎNER / LUNCH
13H30 - 15H30	The role of Spaceborne SAR in Cryosphere Science

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- ✓ Big Data
- ✓ Business Geographics/Analytics
- ✓ Cadastral Mapping
- ✓ Cartography
- ✓ Climate Change
- ✓ Computing in the Cloud
- ✓ Crime Mapping/ Modelling
- ✓ Data Capture/Collection
- ✓ DEM- Digital Elevation Model
- ✓ DGPS - Differential GPS
- ✓ Digital City Models
- ✓ Digital Mapping
- ✓ Digital Rights Management
- ✓ Disaster Management/ Monitoring
- ✓ DSM - Digital Surface Model
- ✓ DTM - Digital Terrain Model
- ✓ Dynamic Mapping
- ✓ Earth Observation
- ✓ Emergency Services
- ✓ ENC - Electronic Navigation Chart
- ✓ Environmental Monitoring
- ✓ Galileo
- ✓ Geo-ICT
- ✓ Geodesy
- ✓ Georeferencing
- ✓ Geosciences
- ✓ Geospatial Image Processing
- ✓ GIS
- ✓ GIS in Agriculture & Forestry
- ✓ GLONASS
- ✓ GMES
- ✓ GNSS
- ✓ GPS
- ✓ GSDI
- ✓ Hardware
- ✓ Hydrography
- ✓ Hyperspectral Imaging
- ✓ Image Analysis
- ✓ INSPIRE
- ✓ Integration
- ✓ Interoperability & Open Standards
- ✓ Land Information Systems
- ✓ Laser Scanning
- ✓ LBS
- ✓ LiDAR
- ✓ Mapping Software
- ✓ Marine Tracking & Navigation
- ✓ Mobile GIS/Mapping
- ✓ Municipal GIS
- ✓ Navigation
- ✓ Network Topology
- ✓ NSDI
- ✓ Open GIS
- ✓ Photogrammetric
- ✓ Photogrammetry
- ✓ Point Clouds
- ✓ Property Information Systems
- ✓ Radio Navigation
- ✓ Remote Sensing
- ✓ Risk Management
- ✓ RTK (Real Time Kinematic) Surveying
- ✓ Satellite Imagery/Navigation
- ✓ Scanning Technology
- ✓ SDI - Spatial Data Infrastructures
- ✓ Smart Grids
- ✓ Software
- ✓ Surveying Instrumentation
- ✓ Surveying Technology Sensor
- ✓ Telematics
- ✓ Topographic Mapping
- ✓ Total Station
- ✓ Tracking & Route Planning
- ✓ Transport
- ✓ Utilities GIS
- ✓ Vehicle Tracking & Navigation
- ✓ VRS - Virtual Reference Station
- ✓ Web Mapping

Sectors covered:

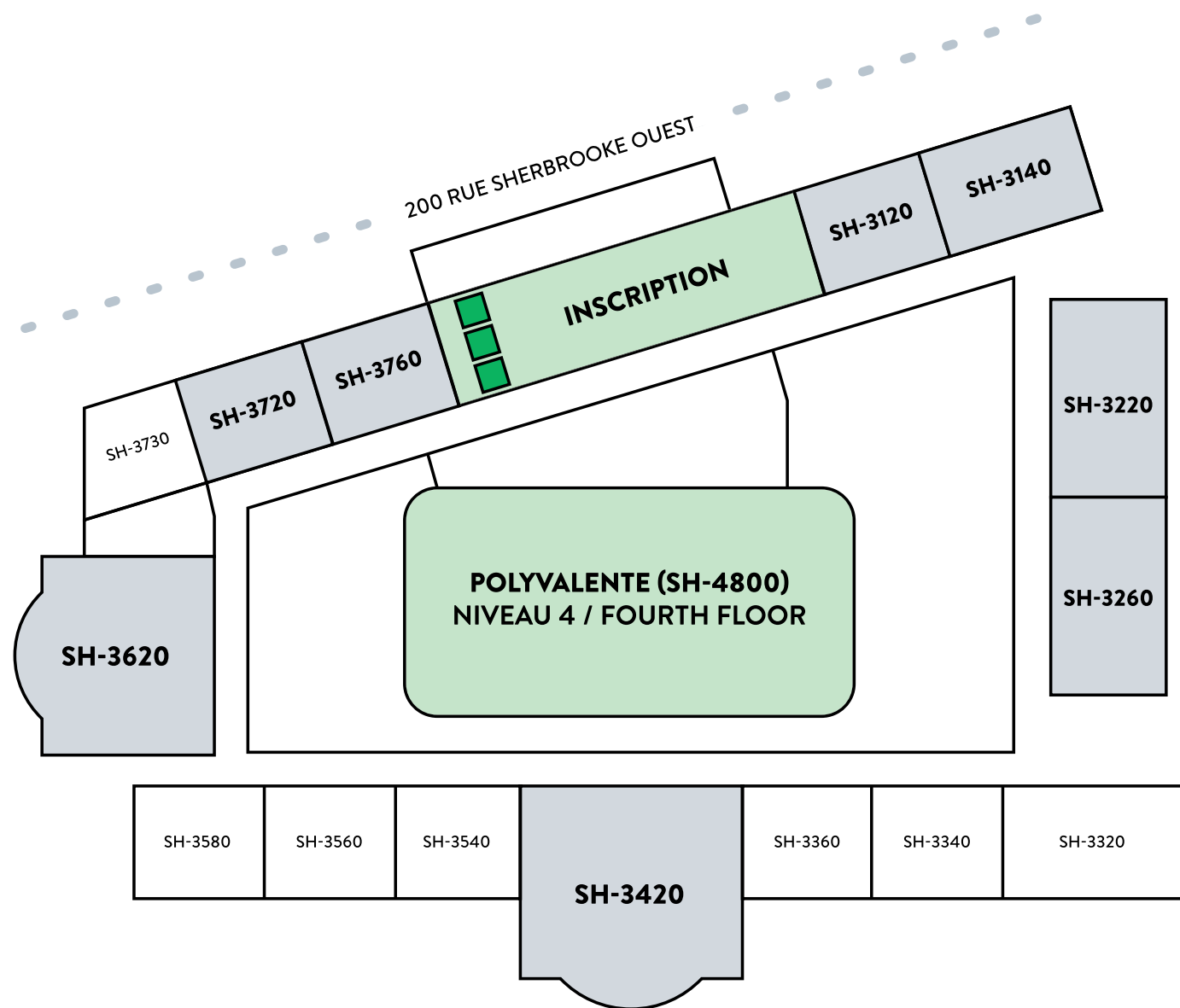
- ✓ Aerospace
- ✓ Agriculture
- ✓ Archaeology & Heritage
- ✓ Architecture
- ✓ Biosecurity
- ✓ Business Security/Service
- ✓ Central/Local/Regional Government
- ✓ Construction
- ✓ Consulting Services
- ✓ Cyber Security
- ✓ Defence
- ✓ Education
- ✓ Emergency Services
- ✓ Energy Utility
- ✓ Engineering
- ✓ Environmental Management
- ✓ Environmental Monitoring
- ✓ Financial Services
- ✓ Fisheries
- ✓ Forestry Management
- ✓ Geosciences
- ✓ Healthcare
- ✓ Infrastructure Protection
- ✓ Insurance
- ✓ Manufacturing
- ✓ Marine
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- ✓ Mining
- ✓ Natural Resource Management
- ✓ Oil & Gas
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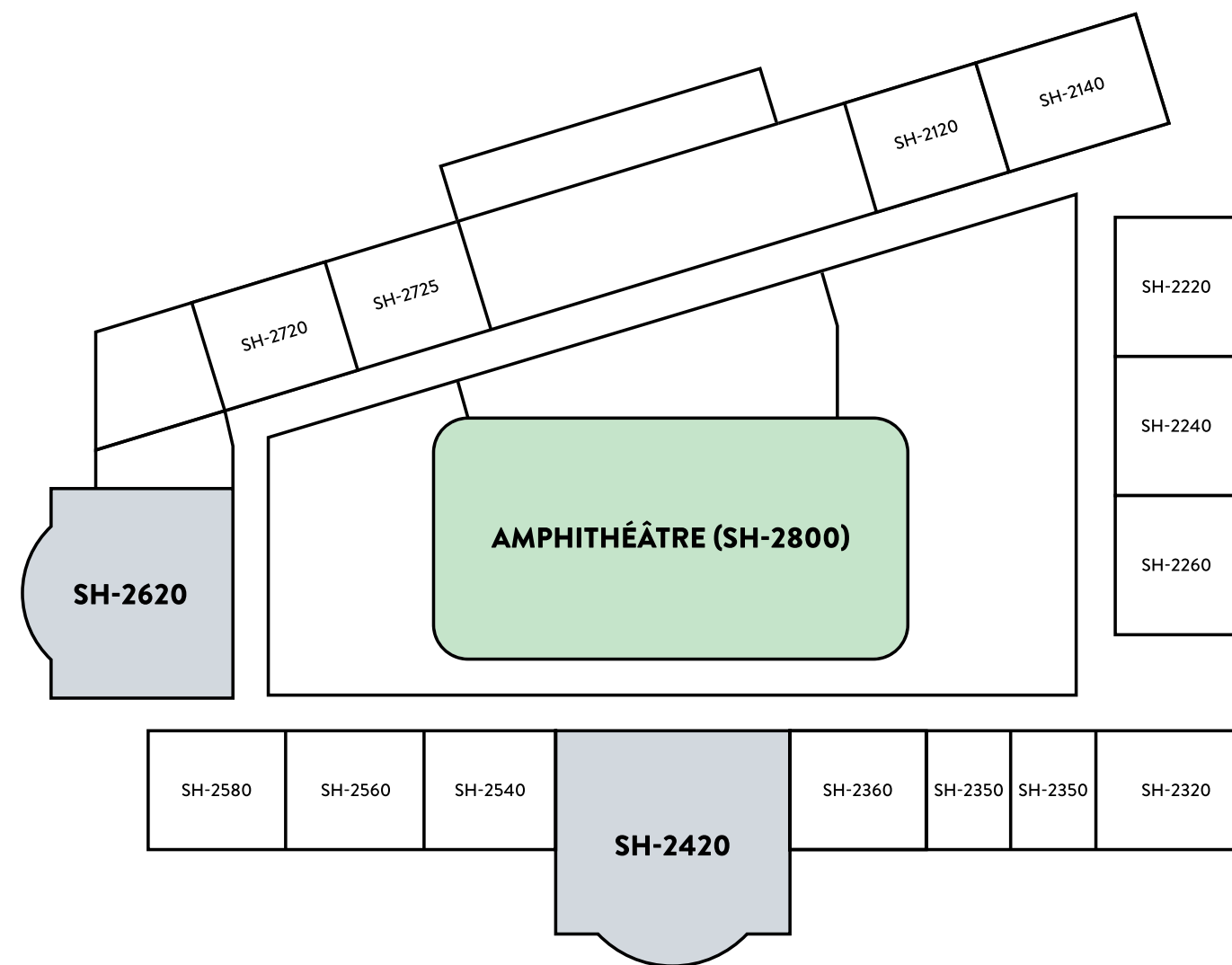
NIVEAU 3 / THIRD FLOOR

HEURES D'OUVERTURE DE L'INSCRIPTION:

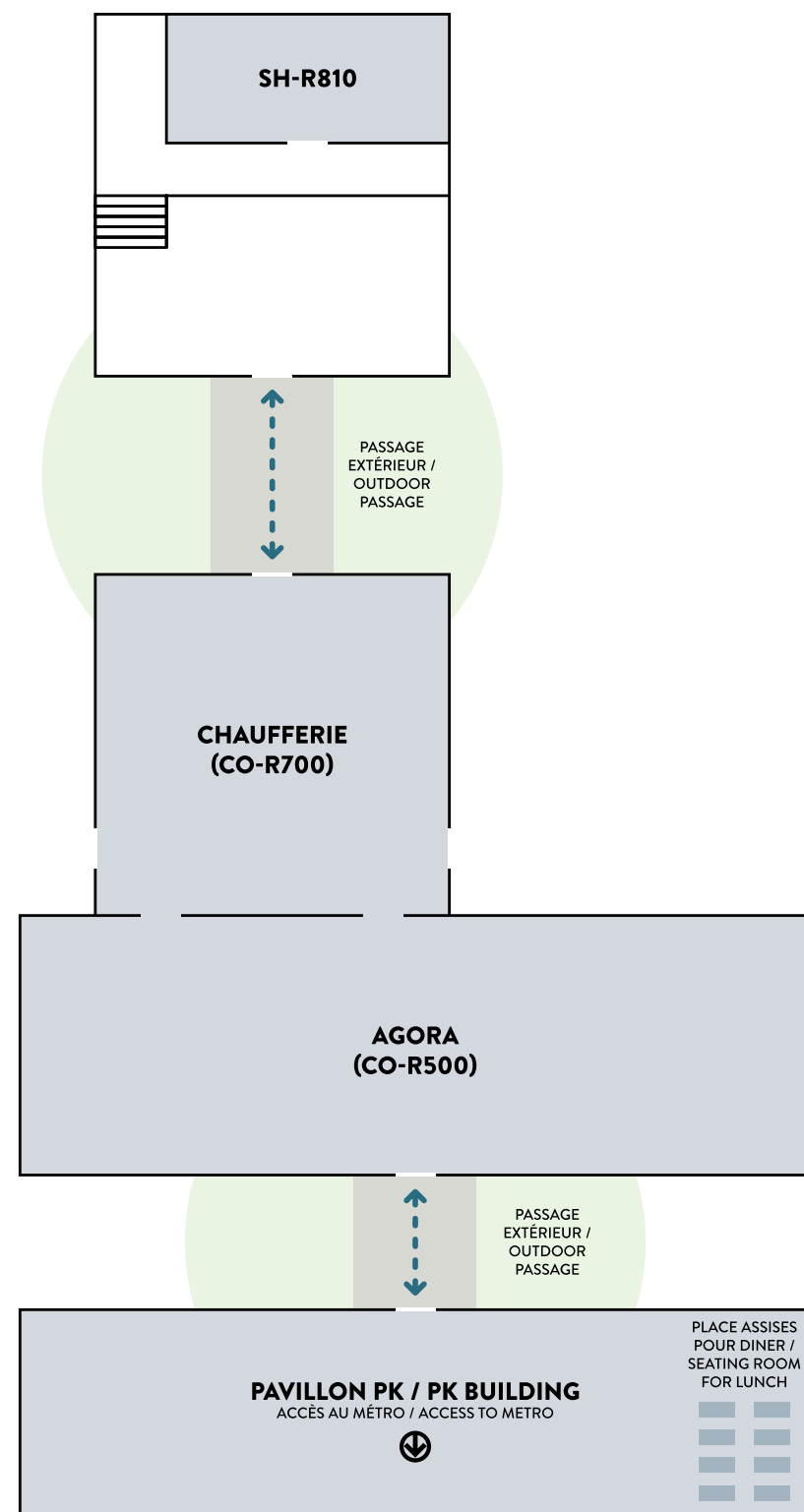
20 JUIN - 7H30 À 17H00
 21 JUIN - 8H00 À 17H00
 22 JUIN - 7H45 À 17H00

REGISTRATION DESK OPENING HOURS:

JUNE 20TH - 7:30 AM TO 5:00 PM
 JUNE 21ST - 8:00 AM TO 5:00 PM
 JUNE 22ND - 7:45 AM TO 5:00 PM



NIVEAU 2 / SECOND FLOOR



NIVEAU 1 / FIRST FLOOR

ÉVÉNEMENTS SOCIAUX SOCIAL EVENTS

MARDI 20 JUIN / TUESDAY, JUNE 20

COCKTAIL

Le Sommet sur l'Observation de la Terre vous invite à venir réseauter avec vos pairs le mardi 20 juin à partir de 18h.

L'Agora du Cœur des sciences sera transformée en espace lounge pour l'occasion où cocktail et bouchées seront servis. Un DJ rythmera également la soirée!

On vous y attend!
Gratuit avec l'inscription au Sommet

COCKTAIL

The Earth Observation Summit invites you to meet and network with your peers on Tuesday, June 20 from 6 pm.

The Agora room in Cœur des sciences will be transformed into a lounge for the evening, where cocktails and appetizers will be served. A DJ will also add a beat to the evening!

See you there!
Free with registration to the Summit

MERCREDI 21 JUIN / WEDNESDAY, JUNE 21

SOIRÉE BANQUET

Le Sommet sur l'Observation de la Terre est fier de vous convier à une soirée banquet le mercredi 21 juin prochain au Hall panoramique du Centre des Sciences de Montréal.

Nous vous invitons à venir vivre une soirée inspirée des marchés publics du Vieux-Port de Montréal où saveurs et musiques traditionnelles stimuleront vos sens. Nous vous invitons également à venir féliciter avec nous les récipiendaires des prix annuels de l'Association Québécoise de Télédétection (AQT) et de la Société Canadienne de Télédétection (SCT). Nous vous attendons avec impatience pour une soirée riche en souvenirs à compter de 18h30.

Inscription obligatoire (\$)

BANQUET DINNER

The Earth Observation Summit 2017 is proud to invite you to the Banquet Dinner that will be held on Wednesday, June 21 at the Panoramic Hall of the Montreal Science Center.

Inspired by the public markets of the Old port of Montreal, come enjoy good food and traditional music that will stimulate your senses. Also, please join us in congratulating the recipients of the annual awards of the Association Québécoise de Télédétection (AQT) and the Canadian Remote Sensing Society (CRSS). We are looking forward to your participation to an eventful evening starting at 6:30PM.

Registration required (\$)

LA SOIRÉE BANQUET
VOUS EST OFFERT PAR /
THE BANQUET DINNER IS
OFFERED BY:



LE FESTIN DE LA SOIRÉE
SERA CONCOCTÉ PAR /
THE EVENING'S FEAST
WILL BE PREPARED BY:



DÉPART / DÉPARTURE:

200 RUE SHERBOOKE OUEST

18h00 — Navette 1 / Shuttle 1

18h15 — Navette 2 / Shuttle 2

18h30 — Navette 3 / Shuttle 3

Place limitée par navette / limited space per shuttle bus

RETOUR / RETURN:

4 RUE DE LA COMMUNE OUEST

22h00 — Navette 1 / Shuttle 1

22h30 — Navette 2 / Shuttle 2

23h00 — Navette 3 / Shuttle 3

Place limitée par navette / limited space per shuttle bus

HORAIRE
DES NAVETTES
SHUTTLE BUS
SCHEDULE

AUTRES ÉVÉNEMENTS OTHER EVENTS

LUNDI 19 JUIN / MONDAY, JUNE 19

ÉCOLE D'ÉTÉ

L'école d'été a pour but de fournir aux participants la possibilité d'acquérir des connaissances sur les applications des différentes technologies en télédétection dans plusieurs domaines qui sont données par sept experts dans leur domaine.

Inscription obligatoire (\$)

SUMMER SCHOOL

The Summer School aims at providing to the attending participants the opportunity to gain knowledge about applications of various remote sensing technologies in several domains that are given by seven experts in their area.

Registration required (\$)

DÉMONSTRATION DE DRONES ET D'ACQUISITIONS D'IMAGES

Le centre de géomatique du Québec (CGQ) et le Centre d'expertise des drones (CED), en collaboration avec le Sommet OT, présentent un atelier de démonstration de drones qui se tiendra chez Drone Volt Canada à Laval. C'est une belle occasion réseautage vous permettant de participer et/ou d'assister à des démonstrations de drones et d'acquisitions d'images multi capteurs de compagnies qui proposent des services d'acquisition d'image par drone.

Inscription obligatoire (\$)

UAV FLIGHTS AND IMAGE ACQUISITIONS' DEMONSTRATIONS

The Quebec Geomatics Center (CGQ) and the Drone Expertise Center (CED) in collaboration with the EO Summit 2017, present UAV flights and image Acquisitions' Demonstrations that will be held at Drone Volt Canada in Laval. It is a great networking opportunity to participate and/or attend UAV flights and multi sensors image acquisitions' demonstrations provided by small businesses offering drone services.

Registration required (\$)

VISITE SCOLAIRE

Dans le cadre des activités entourant le Sommet sur l'Observation de la Terre, l'Agence spatiale canadienne organise une visite de ses installations à Saint-Hubert pour un groupe de 80 étudiants de niveau secondaire IV et V. Le but de la visite est de stimuler leur intérêt à la Science, la Technologie, à l'Ingénierie et aux Mathématiques (STEM). Les étudiants auront l'opportunité de visiter certains laboratoires d'entraînement de robotique spatiale, d'avoir une démonstration des derniers rovers, de visiter les salles d'exposition et bien plus!

Sur invitation seulement

SCHOOL VISIT

In the context of the activities of the EO Summit 2017 that will be held in Montreal, 20-22 June, the Canadian Space Agency is preparing a visit of its installations in Saint-Hubert for a group of 80 High School students (grades 10-11). The goal of the visit is to encourage their interest in Science, Technology, engineering and Maths (STEM). Students will have the chance to visit the astronaut's space robotics training labs, to have a demo of the latest rovers, to visit the showrooms and much more!

Upon invitation only

EXCURSION SCIENTIFIQUE – LES ÎLOTS DE CHALEUR URBAINS

« Pourquoi fait-il parfois si chaud au centre-ville ou en banlieue? Comment la morphologie urbaine et les matériaux influencent-ils la température? Durant cette visite gratuite d'une heure, venez découvrez comment l'aménagement urbain a un impact important sur notre confort thermique et quels sont les moyens de rafraîchir notre ville! »

Olivier Canuel Ouellet est finissant à la maîtrise de géographie à l'UQAM. Il étudie depuis deux ans le comportement thermique des matériaux et la formation des îlots de chaleur urbains de la région métropolitaine de Montréal. Yves Baudouin est professeur au Département de géographie de l'UQAM. Il est spécialiste en géomatique et des îlots de chaleurs en milieux urbains.

Départ à l'entrée principale lors des pauses du mardi 14h50, du mercredi 10h30 et 14h50, et du jeudi 10h30. Environ 1 heure.

Gratuit / Nombre limité de participants

SCIENCE EXCURSION – URBAN HEAT ISLANDS

« Why is it so hot downtown and even in the suburbs? How is the urban morphology and materials influencing the temperature? In this free one hour tour, discover how urban configuration impacts our thermal wellbeing and what are the means to cool down our cities! »

Olivier Canuel Ouellet is a master student in geography at UQAM. He has been studying the thermal behavior of materials and the formation of urban heat islands in the greater Montréal. Yves Baudouin is professor at the geography Department of UQAM. He is a specialist in geomatics and urban heat islands.

Departing from the main entrance at the breaks on Tuesday 2:50PM, Wednesday 10:30AM and 2:50PM, and on Thursday 10:30 AM. Approx. 1 hour.

Free / Limited number of participants

POINT DE PRESSE: RÔLE CRUCIAL DES DONNÉES D'OBSERVATION LA TERRE LORS DES INONDATIONS DU QUÉBEC AU PRINTEMPS 2017

L'AQT, L'AGMQ, la SCT et l'UQAM présentent le 19 juin à 18h un panel sur le rôle crucial qu'ont joué les données d'observation de la Terre dans les inondations du printemps 2017 au Québec. Il servira de lancement du Sommet sur l'Observation de Terre.

Gratuit / free. Presentation in French only. Questions in English are welcome.

Des responsables de municipalités touchées et certains experts impliqués à différents niveaux au cours des inondations viendront discuter de leur utilisation des données géospatiales et des outils de la géomatique dans la gestion et la prise de décisions. Les intervenants partageront leurs expériences notamment sur l'importance de l'acquisition et l'utilisation d'images satellites, de photographies aériennes, des systèmes d'information géographique, des drones et autres plateformes d'observation de la Terre.

VENDREDI 23 JUIN / FRIDAY, JUNE 23

FORMATION RSO

Durant cette activité spéciale, trois experts donnerons des formations pour mieux expliquer quelques techniques RSO avancées et donner un aperçu de leur applications. Le premier tutoriel sera présenté par Gabriel Gosselin de PCI. Le tutoriel démontrera l'utilisation du logiciel PCI Geomatica pour performer l'interférométrie radar. La deuxième présentation sera donnée par Chuck Livingstone sur le GMTI. Le dernier tutoriel présenté par Bernd Scheuchl portera sur le rôle des RSO dans la science de la cryosphère.

Inscription obligatoire (\$)

SAR TUTORIAL SESSIONS

In this special activity, three experts will give tutorials to better understand some of the advanced SAR techniques and provide example of the applications of some of these techniques. The first tutorial will be given by Gabriel Gosselin of PCI. The tutorial will demonstrate the use of the PCI Geomatica software to performed interferometric processing. The second presentation will be given by Chuck Livingstone on GMTI. The last presentation will be given by Bernd Scheuchl on the role of Spaceborne SAR in Cryosphere Science.

Registration required (\$)

PRÉSENTÉ PAR / PRESENTED BY: **effigis**
GEO SOLUTIONS

PLAN DU SALON DES EXPOSANTS TRADE SHOW FLOOR PLAN

SALLE / ROOM
POLYVALENTE (SH-4800)

LISTE DES EXPOSANTS / EXHIBITORS LIST

16	AGENCE SPATIALE CANADIENNE / CANADIAN SPACE AGENCY
7	AGMQ
11-12	AIRBUS
14	AQT
20	C-CORE
3	EFFIGIS
22	EXPOSITION DE L'ESPACE À L'ASSIETTE / SPACE TO SPOON EXHIBITION MUSÉE DE L'AGRICULTURE ET ALIMENTATION DU CANADA ET DE L'AGENCE SPATIALE CANADIENNE / CANADA AGRICULTURE AND FOOD MUSEUM AND CANADIAN SPACE AGENCY
9	GHGSAT
10	KEPLER SPACE INC.
2	MDA SYSTEMS LTD.
17	NRCAN
4-5	PCI GEOMATICS
13	SCT
1	SPECTRAL EVOLUTION
21	TAYLOR & FRANCIS
8	UQAM

HEURES D'OUVERTURE DU SALON D'EXPOSITION :

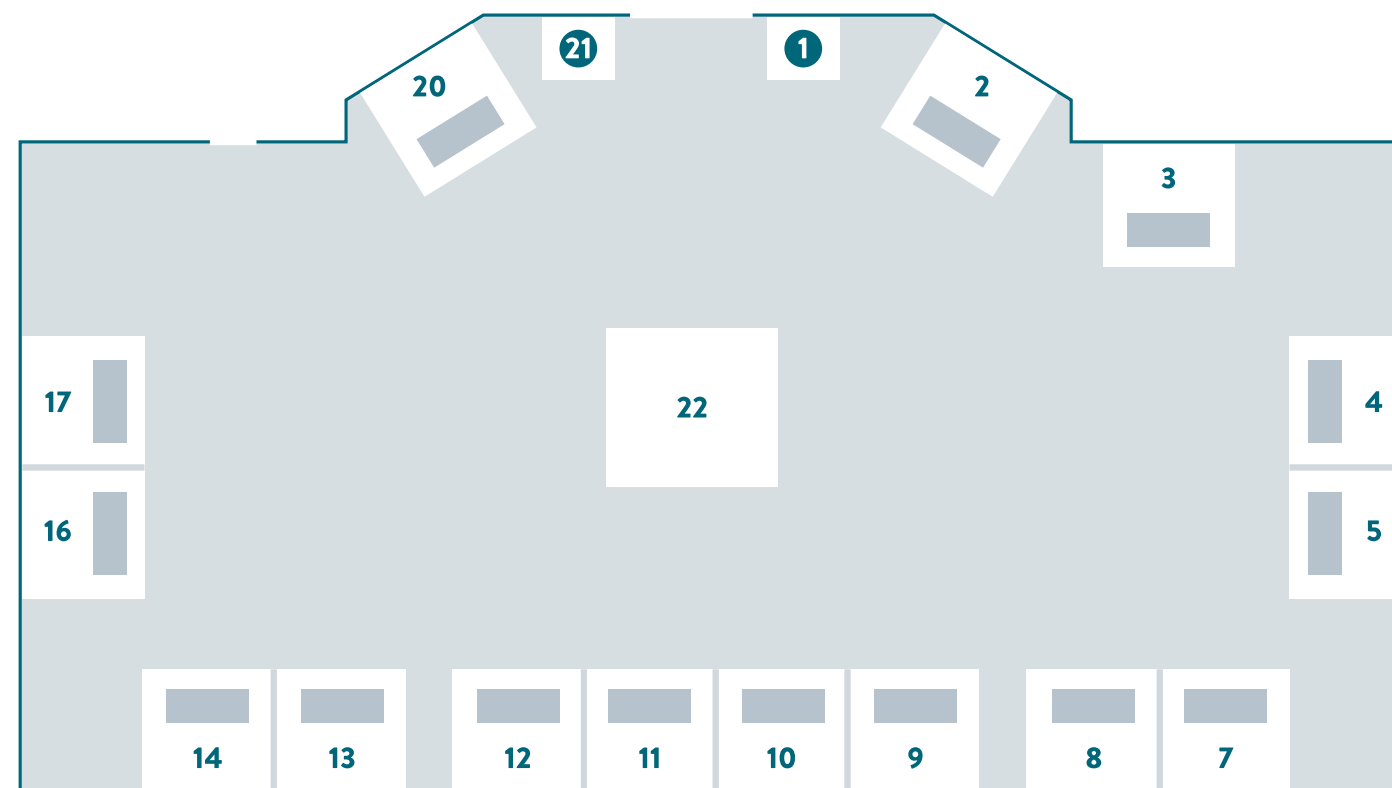
20 JUIN – 10H30 À 15H45
21 JUIN – 8H00 À 15H45
22 JUIN – 7H45 À 15H45

Venez visiter les exposants durant le café d'ouverture, les pauses-café ainsi que le dîner. Tous les repas et breuvages seront servis dans le salon d'exposition.

EXHIBITION OPENING HOURS:

JUNE 20TH – 10:30 AM TO 3:45 PM
JUNE 21ST – 8 AM TO 3:45 PM
JUNE 22ND – 7:45 AM TO 3:45 PM

Come visit the exhibitors during the welcoming coffee, coffee-breaks and lunch. All the food and beverage will be served in the Trade show.



PROGRAMME DÉTAILLÉ DETAILED PROGRAM

AUTRES ÉVÉNEMENTS – LUNDI 19 JUIN 2017 OTHER EVENTS – MONDAY, JUNE 19, 2017

9:00 - 10:05 | SH-3620

ÉCOLE D'ÉTÉ #1 / SUMMER SCHOOL 1

Use of optical and radar remote sensing for environmental applications

Dr. Brigitte Leblon & Dr. Armand LaRocque, University of New Brunswick

10:05 - 10:15

PAUSE / BREAK

10:15 - 11:15 | SH-3620

ÉCOLE D'ÉTÉ #2 / SUMMER SCHOOL 2

Drones in the service of the agriculture sector

Prof. Karem Chokmani, INRS-ETE

11:15 - 12:15 | SH-3620

ÉCOLE D'ÉTÉ #3 / SUMMER SCHOOL 3

Visible, near-infrared and thermal hyperspectral imagery in urban areas

Dr. François Cavayas, University of Montreal

12:15 - 13:15

REPAS / LUNCH

13:15 - 14:15 | SH-3620

ÉCOLE D'ÉTÉ #4 / SUMMER SCHOOL 4

An Education Initiative for Applied Radar Remote Sensing on behalf of DLR

Prof. Christiane Schmullius, Friedrich-Schiller-University

14:15 - 15:15 | SH-3620

ÉCOLE D'ÉTÉ #5 / SUMMER SCHOOL 5

Remote sensing of vegetation

Prof. Angela Kross, Concordia University

15:15 - 15:30

PAUSE / BREAK

15:30 - 16:30 | SH-3620

ÉCOLE D'ÉTÉ #6 / SUMMER SCHOOL 6

Hyperspectral image analysis – examples from the Mer Bleue Arctic Surrogate Simulation Site

Prof. Margaret Kalacska, McGill University & Dr. Pablo Arroyo, NRC

16:30 - 17:00 | SH-3620

CONCLUSION, DIPLÔME, PHOTO DE GROUPE / SUMMER SCHOOL WRAP-UP, DEGREE PRESENTATION, PICTURE

LÉGENDE / COLOR CODE

Une planète - une santé
One Earth - One Health

Téledétection des incendies
de forêt
Wildfire Remote Sensing

Atelier sur la Commercialisation
de l'Observation de la Terre
Commercialization of Earth
Observation Workshop

Colloque AGMQ:
Les technologies sur l'Observa-
tion de la Terre appliquées au
monde municipal et régional
AGMQ Seminar

JOUR 1 – MARDI 20 JUIN 2017 DAY 1 – TUESDAY, JUNE 20, 2017

7:30 - 17:00 | HALL

INSCRIPTION / REGISTRATION

9:00 - 9:30 | AMPHITHEATRE

MOT DE BIENVENUE DU SOMMET OT / EO SUMMIT 2017 WELCOME ADDRESS

9:30 - 10:00 | AMPHITHEATRE

CONFÉRENCIER D'HONNEUR / KEYNOTE MICHAEL RAST, ESA

ESA program and activities in Earth Observation

10:00 - 10:30 | AMPHITHEATRE

CONFÉRENCIER D'HONNEUR / KEYNOTE DAVID GRIMES, ECCC / WMO

Societal Benefits of Earth Observation: Perspectives from Environment and Climate Change Canada

10:30 - 11:00 | POLYVALENTE

PAUSE / BREAK

10:30 - 15:45 | SALLE POLYVALENTE

SALON DES EXPOSANTS / TRADE SHOW

11:00 - 11:30 | AMPHITHEATRE

ASAR CONFÉRENCIER D'HONNEUR / ASAR KEYNOTE THUY LE TOAN, CENTRE D'ETUDES SPATIALES DE LA BIOSPHÈRE

The BIOMASS mission: quantifying biomass for global carbon assessment

11:00 - 12:20 | CHAUFFERIE

ÉVOLUTION DU RÔLE DU GOUVERNEMENT ET DU SECTEUR PRIVÉ / CHANGING ROLES OF GOVERNMENT AND PRIVATE SECTOR

Shane Patterson, Government of Alberta | Stewart Bain, Northstar Space Data | Stephane Germain, GHGSat | David Haight, CSA

11:00 - 12:20 | SH-2620

ESTIMATION OF FUEL CHARACTERISTICS / FUEL MOISTURE MAPPING

11:00— Integration of multispectral and ancillary Data for mapping Seriphium Plumosum in a Mountainous Terrain using Ensemble Algorithms

Samuel Adewale Adelabu, University of The Free State

11:20— Fuel load mapping in Savannah Ecosystems in support of integrated Fire management within protected Areas

Sandra Lohberger, RSS - Remote Sensing Solutions GmbH

11:40— An Overview of Twenty Years of Research on Fuel Moisture Estimation Using Remote Sensing over Boreal Forests at the University of New Brunswick, Canada

Brigitte Leblon, Faculty of Forestry and Environmental Management, University of New Brunswick

12:00— Developing approaches for monitoring boreal and arctic Soil Moisture from active and passive Microwave Data for Fire danger Assessment

Laura Bourgeau-Chavez, Michigan Tech Research Institute, Michigan Technological University

11:00 - 12:20 | SH-R810

APPLICATION DES DRONES EN AGRICULTURE / UAV IN AGRICULTURE

11:00— Deep learning for a better use of UAV Imagery in Agriculture

Yacine Bouroubi, Effigis Geo-Solutions

11:20— Suivi temporel et spatial de la biomasse du maïs à partir des images RGB acquises par drone

Kosal Khun, University of Montreal

11:40— Étude du potentiel de l'imagerie infrarouge thermique acquise par drone pour la détection du stress hydrique dans la culture de pommes de terre

Hachem Agili, Institut national de la recherche scientifique (INRS)

12:00— Exploring the Potential of Unmanned Aerial Vehicle Systems for Mapping Leafy Spurge

Anne Smith, Agriculture and Agri-Food Canada

11:00 - 12:20 | SH-2420
FORÊTS / FOREST

11:00— Sensitivity Analysis dedicated to the Impacts of Forest Disturbances on C-band Backscatter with simulated PolSAR data
Ludovic Villard, CESBIO

11:20— Estimating Forest attribute changes across Canada through bi-temporal kNN mapping based on MODIS Imagery
André Beaudoin, Natural Resources Canada,
Canadian Forest Service, Laurentian Forestry Centre

11:40— A Post-Classification Time Series Change Detection Technique for Forest Disturbance Mapping Using Multi-Source Data
Ilia Parshakov, Alberta Terrestrial Imaging Centre (ATIC),
University of Lethbridge

12:00— High Frequency Multi-temporal Vegetation Canopy Model Extraction from Optical Satellite Data
James Klassen, ShareGeo

11:00 - 12:20 | SH-3620
CHAMPS PÉTROLIERS ET SABLES BITUMINEUX / OIL FIELD AND OIL SAND MONITORING

11:00— Automated InSAR Processing and Temporal Analysis for the Monitoring of Oil Field Subsidence caused by Steam Injection
John Wessels, PCI Geomatics

11:20— Optical Water Mapping Algorithm Review for Ponds in the Oil Sands Region
H.Peter White, Canada Centre for Remote Sensing,
Natural Resources Canada, Ottawa

11:40— Monitoring Biomass Change within reclaimed Wetland and Forest Sites in the Oil Sands Region using high Resolution multi-temporal Optical Imagery, Field Data and Eddy Covariance Methods
Laura Chasmer, University of Lethbridge

11:00 - 12:20 | SH-3420
UTILISATION DU LIDAR POUR L'INVENTAIRE ET L'ÉCOLOGIE FORESTIÈRE #1 / USE OF LIDAR IN FOREST INVENTORY AND ECOLOGY #1

11:00— Coupling terrestrial LiDAR and AmapSim modeling to evaluate for juvenile Performance and predict productivity of 16 Hybrid Poplar Clones
Sylvain Delagrang, UQO

11:20— The use of terrestrial LiDAR for enhance Forest Inventory
Richard Fournier, Université de Sherbrooke

11:40— Preliminary testing of mobile terrestrial LiDAR for forest inventory and harvesting decision support
Jili Li, FP Innovations

12:00— Improving Forest Inventory with Multi-Scale LiDAR Data and Tree Architecture modeling
Jean-Francois Cote, Canadian Forest Service

11:30 - 11:55 | AMPHITHEATRE
**ASAR CONFÉRENCIER D'HONNEUR / ASAR KEYNOTE
RIDHA TOUZI, NRCAN**

The Convair-580: Our source of Inspiration for the Influence of the Design, Calibration and Advanced Applications of Polarimetric Satellite SAR

11:55 - 12:20 | AMPHITHEATRE
**ASAR CONFÉRENCIER D'HONNEUR / ASAR KEYNOTE
ERIC LALIBERTÉ, CSA**

La constellation RADARSAT: Un regard différent sur le Canada et le monde / The RADARSAT Constellation: Changing how we look at Canada and the world

12:20 - 13:30 | POLYVALENTE
REPAS / LUNCH

12:30 - 13:00 | AMPHITHEATRE
**CONFÉRENCIER D'HONNEUR / KEYNOTE
CHRIS DODD, AIRBUS**

Commercialization: Recent Experience, Lessons Learned and Plans for the Future

13:30 - 14:50 | CHAUFFERIE
CRÉATION D'UN ENVIRONNEMENT FAVORABLE À LA CROISSANCE DURABLE DES ENTREPRISES / CREATING SUSTAINABLE BUSINESS

Des Power, C-CORE | Jacques Giroux, ABB Bomem | Marco van der Kooij, MDA | Markus Jochum, Airbus

13:30 - 14:50 | SH-2620
MAPPING BURNED AREAS AND BURN SEVERITY - PART I

13:30— The National Burned Area Composite of Forest Fires in Canada
Rob Skakun, Canadian Forest Service

13:50— Estimating Burn Severity Using the Combination of Landsat and Sentinel-2 Data over the Horse River Wildfire
Jinkai Zhang, Alberta Agriculture and Forestry

14:10— Spatial Variability of Peat consumption following Wildfire at Fort McMurray using Field Measurements and temporal LiDAR Remote Sensing Data
Laura Chasmer, University of Lethbridge

14:30— Natural Resources Canada's Response to the Fort McMurray Wildfire: Rapid Damage Assessment for Near-Real-Time Situational Awareness
Brad Lehrbass, Natural Resources Canada

13:30 - 14:50 | AMPHITHEATRE
MISSIONS RSO #1 / SAR MISSIONS #1

13:30— Tandem-L: A Highly Innovative Bistatic SAR Mission for Monitoring Earth's Dynamic Processes
Patrick Klenk, German Aerospace Center (DLR)

13:50— Sentinel-1 Constellation SAR Interferometry Performance
Dirk Geudtner, European Space Agency

14:10— WorldSAR and the High Resolution Wide Swath Mission
Markus Jochum, Airbus Defence and Space

14:30— ICEYE Microsatellite SAR
Pekka Laurila, ICEYE

13:30 - 14:50 | SH-R810
APPLICATION DES DRONES EN ÉCOLOGIE / ECOLOGICAL APPLICATIONS OF UAVS

13:30— Peatland Microtopography Mapping from UAV aerial Photography – Camera System and flight Parameter Considerations
Oliver Lucanus, Below Water Pictures

13:50— Mapping Micro-Topography of Peatlands within Alberta: Applications for Unmanned Aerial Vehicle (UAV) Technology
Julie Lovitt, University of Calgary

14:10— Mapping Peat Groundwater Table Dynamics using Unmanned Aerial Vehicle and Photogrammetric Techniques
Julie Lovitt, University of Calgary

14:30— Estimating Vegetation Parameters on Seismic Lines with UAV-based Point Clouds
Shijuan Chen, University of Calgary

13:30 - 14:50 | SH-2420
ATMOSPHÈRE / ATMOSPHERE

13:30— Global Monitoring of Greenhouse Gas Emissions
Stephane Germain, GHGSat Inc.

13:50— Changes of Air Quality in China: a spatiotemporal Analysis of Aerosol Optical Depth based on Satellite Observation during 2001-2015
Yao Feng, Queen's University

14:10— Estimation and Uncertainty Assessment of the Near-Surface Air Temperature at regional Scale using the modified Temperature/Vegetation Index derived from AVHRR Satellite Images
Serge Olivier Kotchi, Public Health Agency of Canada

13:30 - 14:50 | SH-3620
CRYOSPHERE / CRYOSPHERE

13:30— Monitoring Snow Cover Extent over Eastern Canada Combining Fuzzy Logic and Remote Sensing Data
Sophie Roberge, INRS-ETE

13:50— Shipping Trends in Arctic Waters using six Years of SAT-AIS Data
Torkild Eriksen, Norwegian Defence Research Establishment (FFI)

14:10— Regional Sea Ice Monitoring Using A Model And Microwave Satellite Data
Igor Zakharov, C-CORE

14:30— RADARSAT-2 dual-polarimetric SAR Data to observe Terra Nova Bay Polynya
Ferdinando Nunziata, Università degli Studi di Napoli Parthenope, Dipartimento di Ingegneria

13:30 - 14:50 | SH-3420
UTILISATION DU LIDAR POUR L'INVENTAIRE ET L'ÉCOLOGIE FORESTIÈRE #2 / USE OF LIDAR IN FOREST INVENTORY AND ECOLOGY #2

13:30— Prediction of FRI Attributes in different Forest Types in Ontario using a Core Set of ALS Metrics
Karin van Ewijk, Queen's University

13:50— Using LiDAR and WorldView-3 imagery to map individual tree species
Mathieu Varin, CERFO

14:10— Identifying individual Tree Species of Canadian Forests using mono- or multi-spectral airborne LIDAR
Benoît St-Onge, Université du Québec à Montréal

14:30— Using airborne LIDAR Data to calculate lateral and vertical growth in Canopy Gaps and how it varies in natural versus managed temperate deciduous Forests
Jean-Francois Senecal, UQAM

13:30 - 14:50 | SH-3140
DÉVELOPPEMENT URBAIN / URBAN DEVELOPMENT

13:30— A Synergy of InSAR and PolSAR Techniques on Urban Development Detection over Greater Vancouver
Xiaodong Huang, University of Western Ontario

13:50— Rooftop characterization by applying deep learning to WorldView-3 Images: application to technical solar Photovoltaic Assessment
Yacine Bouroubi, Effigis Geo-Solutions

14:10— InSAR monitoring of Urban Land Subsidence in Canadian coastal Cities
Zhaohua Chen, University of Western Ontario

14:30— Impact de l'urbanisation sur la dynamique forestière par télédétection dans le périurbain de Lubumbashi entre 2007 et 2015
Nsiami Mabilia Catherine, Université de Lubumbashi

14:50 - 15:30 | POLYVALENTE
PAUSE / BREAK

15:30 - 16:50 | CHAUFFERIE
CRÉATION ET DÉVELOPPEMENT DE NOUVELLES ENTREPRISES / BUILDING AND SUPPORTING NEW ENTERPRISES

Pekka Laurila, Iceye | Chris Robson, Promethean Labs | Michelle Mendes, Canadian Space Commerce Association / Space Advisory Board

15:30 - 16:50 | SH-2620
MAPPING BURNED AREAS AND BURN SEVERITY - PART II

15:30— Mapping Canadian Forest Fires using Proba-V time Series
Ruben Van De Kerchove, VITO

15:50— Mapping and Up-Scaling UAV-Based Indicators of Boreal Forest Burn Severity
Robert Fraser, Canada Centre for Mapping and Earth Observation

16:10— Estimating burn severity in northern boreal Forests from L-band dual-pol PALSAR Imagery: preliminary Results
André Beaudoin, Natural Resources Canada, Canadian Forest Service, Laurentian Forestry Centre

16:30— Burn Scar extraction using multi-temporal, multi-polarisation SAR Data
Jeanine Engelbrecht, Council for Scientific and Industrial Research

15:30 - 16:50 | AMPHITHEATRE
MISSIONS RSO #2 / SAR MISSIONS #2

15:30— NovaSAR and NIASAR Payload Development and Performance
Geoff Burbidge, Airbus Defence and Space

15:50— Nearly 10 Years of RADARSAT-2 Flight Operations
Marielle Chabot, MDA GSI

16:10— Bistatic SAR Missions: An Overview of European Space Agency Activities
Malcolm Davidson, European Space Agency

16:30— Novel Global Monitoring and Imagery Exploitation Concepts of the UrtheCast Constellations
Keith Beckett, UrtheCast Corp.

15:30 - 16:50 | SH-R810
APPLICATIONS DES DRONES LE LONG DES CÔTES / UAVS ALONG THE COAST

15:30— Use of UAV Aerial Images in the Study of Coastline Change, New Brunswick, Canada
André Robichaud, Université de Moncton-Campus de Shippagan

15:50— A New Spectral Index for Terrestrial Oil Spill Detection based on UAV Imagery
Masoud Mahdianpari, C-CORE and Memorial University of Newfoundland

16:10— Coastal Change Monitoring of Prince Edward Island's Dynamic Coastlines using small Unmanned Aerial Systems (sUAS)
Andrew Clark, University of Prince Edward Island

16:30— Surface Water reflectance and Water quality retrieval using a lightweight Spectrometer and UAV Platform
Chui Zeng, Carleton University

15:30 - 16:50 | SH-2420
MÉTHODES DE CLASSIFICATION / CLASSIFICATION METHODS

15:30— Per-pixel accuracy Estimation of classified Remote Sensing Images
Giorgos Mountrakis, SUNY College of Environmental Science and Forestry

15:50— Using SAR polarimetry to improve the mapping and monitoring of Canada's natural environments
Thuy Nguyen-xuan, Effigis Geo-Solutions

16:10— Prairie Pothole Region, Temporal Wetland Classification at Shepard Slough Alberta, Canada
Joshua Montgomery, Department of Geography, University of Lethbridge

16:30— Using Machine learning and GEOBIA for the Automation of Land Cover Classification with a Time Series of LANDSAT AND SENTINEL 2 Data
Wolfgang Lueck, PCI Geomatics

15:30 - 16:50 | SH-3620
PLATEFORMES D'ACCÈS AUX MÉGA-DONNÉES ET SERVICES D'OBSERVATION DE LA TERRE / EO BIG DATA AND SERVICES ACCESS PLATFORMS

15:30— NORTHSTAR: "Changing the way we see the world"
Derek Peddle, Alberta Terrestrial Imaging Centre (ATIC), University of Lethbridge

15:50— Data, Data everywhere, but how does Everyone drink?
Graham Stickler, SkyWatch

16:10— Stratégie nationale de données d'élévation pour le Canada / National Elevation Data Strategy for Canada
David Bélanger, Ressources naturelles Canada

16:30— Multi-Cloud Earth Observation Data Processing with Commercial and Institutional Clouds
Cedric Seynat, RHEA Group

15:30 - 16:50 | SH-3420
UTILISATION DU LIDAR POUR L'INVENTAIRE ET L'ÉCOLOGIE FORESTIÈRE #3 / USE OF LIDAR IN FOREST INVENTORY AND ECOLOGY #3

15:30— Updating Forest Inventories using LiDAR and multi-temporal Landsat Data

Douglas Bolton, University of British Columbia

15:50— L'effet de la densité de points et angle de visée des données lidar aéroportées sur les métriques utilisées en foresterie

Martin Béland, Laval University

16:10— Uncertainties associated with Forest Resource Inventory Predictions over large Geographies in northern Canada

Craig Mahoney, University of Lethbridge

15:30 - 16:50 | SH-3140
MILIEUX HUMIDES / WETLANDS

15:30— Wetland Mapping in Southern New Brunswick (Canada) with Landsat-8 OLI and Alos-1 PALSAR L-HH and HV Images

Armand LaRocque, Faculty of Forestry and Environmental Management, University of New Brunswick

15:50— Automated Surface Water Thresholding Techniques Based on SAR Texture and db Backscatter Using Multi-Temporal Radarsat-2 Imagery

Reihaneh Peiman, University of Lethbridge

16:10— Toward the Use of Topographic, Radar, and Optical Inputs for a Probabilistic Wetland Classification Model in Northeastern Alberta, Canada

Jennifer Hird, University of Calgary

16:30— A Comparison of SAR compact Polarimetry with dual and quad Polarimetry for Wetland Classification using an Object-based Random Forest Algorithm

Bahram Salehi, C-CORE

17:00 - 17:30 | AMPHITHEATRE
CONFÉRENCIER D'HONNEUR / KEYNOTE
CARL D. SHAPIRO, USGS

Earth Observation, Societal Benefits, and Public and Private Opportunities: A Perspective from the U.S. Geological Survey

17:30 - 17:50 | AMPHITHEATRE
COMMERCIALIZATION WORKSHOP REPORT

17:50 - 18:00 | AMPHITHEATRE
CONCLUSION - DAY 1

18:00 - 20:00 | AGORA
COCKTAIL

8:00 - 17:00 | HALL
INSCRIPTION / REGISTRATION

8:00 - 15:45 | SALLE POLYVALENTE
SALON DES EXPOSANTS / TRADE SHOW

8:45 - 9:00 | AMPHITHEATRE
MOT DE BIENVENUE DU SOMMET OT /
EO SUMMIT 2017 WELCOME ADDRESS

9:00 - 9:10 | CHAUFFERIE
ATELIER UNE PLANÈTE UNE SANTÉ : MOT
DE BIENVENUE / ONE EARTH ONE HEALTH
WORKSHOP: OPENING

Mot d'ouverture / Opening Remarks

Eric Laliberté, Canadian Space Agency | Dr Howard Njoo, Public Health Agency Canada, PHAC

9:00 - 10:30 | AMPHITHEATRE
KEYNOTES PANEL
SOCIETAL BENEFITS OF EARTH OBSERVATION

Modérateur / Chair: Bob Ryerson

Panélistes / Panelists:

Rached Boussema, École nationale d'ingénieurs de Tunis

Carl D. Shapiro, USGS

Geneviève Marquis, RNCAN/NRCAN

Stéphane Roche, Université Laval)

9:10 - 10:30 | CHAUFFERIE
ATELIER UNE PLANÈTE UNE SANTÉ : CONTEXTE
ET SCIENCE / ONE EARTH ONE HEALTH
WORKSHOP: CONTEXT AND SCIENCE

9:10— Tele-Epidemiology : which Contribution for Earth Observation Satellite Data?

Cécile Vignolles, CNES

9:30— Satellite Earth Observation Data in Advancing Health-Related SDG 3 Targets: A Conceptual Framework
Ramesh Krishnamurthy, World Health Organization

9:50— Getting Ahead of the Curve: Using Earth Observations to Predict Health Risks

Juli Trtanj, National Oceanic and Atmospheric Administration

10:10— Earth Observations for Health and Air Quality
John Haynes, NASA

10:30 - 11:00 | POLYVALENTE
PAUSE / BREAK

11:00 - 12:20 | SH-2620
ACTIVE FIRE INFORMATION -
CURRENT CAPABILITIES

11:00— The Canadian Wildland Fire Information System: the online Hub of Wildfire-related Information in Canada
John Little, Natural Resources Canada, Government of Canada

11:20— Operational Implementation of the Advanced Fire Information System

Philip Frost, CSIR

11:40— Latest developments involving Landsat-Class, S-NPP/VIIIRS and GOES-R/ABI active Fire detection Products
Wilfrid Schroeder, University of Maryland

12:00— Earth Observation Satellite Data to Support Wildfire Response: A Case Study of the Fort McMurray Horse River Fire

Jinkai Zhang, Alberta Agriculture and Forestry

11:00 - 12:20 | CHAUFFERIE
ATELIER UNE PLANÈTE UNE SANTÉ : SCIENCE /
ONE EARTH ONE HEALTH WORKSHOP: SCIENCE

11:00— Climate change and Mosquito-borne diseases in Americas: Toward dynamical modelling and prediction at local scale using Earth observation

Thibault Catry, IRD UMR Espace-Dev

11:20— Integrating EO-based Data into vulnerability Assessments, Case Study and Reflection on Urban Health Research

Marion Borderon, University of Vienna

11:40— Healthy Societies and Healthy Ecosystems: An Integrated Monitoring Approach for Biodiversity and Human Health

Mike Gill, Polar Knowledge Canada

11:00 - 12:20 | AMPHITHEATRE

**MISSION DE LA CONSTELLATION RADARSAT #1 /
RADARSAT CONSTELLATION MISSION #1**

11:00— RADARSAT Constellation Mission

Steve Iris, Canadian Space Agency

11:20— RADARSAT Constellation Mission:

Program Progress Update

Michel Gamache, Canadian Space Agency

11:40— The RADARSAT Constellation Mission Data Policy:

Establishing a Framework for Data Management and Use

Jill Smyth, Canadian Space Agency

12:00— RADARSAT Constellation Mission: Launch Segment

Siamak Tafazoli, Canadian Space Agency

11:00 - 12:20 | SH-R810

**MÉTHODES POLARIMÉTRIQUES AVANCÉES /
ADVANCED POLARIMETRIC METHODS**

11:00— On the Unicity of polarimetric Target scattering
Decomposition

Ridha Touzi, CCRS

11:20— Effects of Slanted Double Bounce and Tilted
Single Bounce Scattering on Model-based Polarimetric
Decomposition

Tom Ainsworth, Naval Research Laboratory

11:40— Wavelet and Polarimetric SAR Image Time Series
Decompositions

Abdourrahmane Atto, Université Savoie Mont Blanc

12:00— L Band Circularly Polarized Synthetic Aperture
Radar onboard Microsatellite : Research Model

Josaphat Tetuko Sri Sumantyo, Chiba University

11:00 - 12:20 | SH-2420

**TÉLÉDÉTECTION HYPERFRÉQUENCE DE LA
CRYOSPHERE #1 / MICROWAVE REMOTE
SENSING OF THE CRYOSPHERE #1**

11:00— Estimating Snow Mass and Peak River flows using
GRACE Satellite Observations

Shsuen Wang, Canada Centre for Remote Sensing

11:20— New Satellite Concepts for measuring Snow Mass

Juha Lemmetyinen, Finnish Meteorological Institute

11:40— Saline Snow covers on First-Year Sea Ice (FYI) –
Friend or Foe for CryoSat-2 derived FYI Thickness Estimates?

Vishnu Nandan, University of Calgary

12:00— Backscatter and Land Surface Modeling
Studies in Support of a Radar Mission Concept Study
for Terrestrial Snow Water Equivalent

Chris Derksen, Environnement et Changement Climatique Canada

11:00 - 12:20 | SH-3620

**INTERFÉROMÉTRIE RSO APPLIQUÉE AU
GÉORISQUES / INSAR APPLIED TO GEOHAZARDS**

11:00— High frequency InSAR processing for continuously
updated Ground Deformation Measurements

Giacomo Falorni, TRE Altamira Inc

11:20— Observation of Surface Deformation caused by
Fluid injection and seismicity in the western Canada
sedimentary Basin

Julia Kubanek, McGill University

11:40— InSAR Big Data: Monitoring all British Columbia for
Geohazards

Adrian McCardle, 3v Geomatics

12:00— Ground Deformation produced by natural and
anthropogenic Activates measured with the advanced
RADARSAT-2 INSAR

Sergey Samsonov, Canada Centre for Mapping and Earth Observation

11:00 - 12:20 | SH-3420

**SÉCURITÉ MARITIME ET APPLICATIONS #1 /
MARITIME SECURITY AND APPLICATIONS #1**

11:00— Arctic maritime Surveillance with SENTINEL-1

Data using a Norwegian collaborative Ground Segment

Tonje Nanette Arnesen Hannevik, Norwegian Defence Research Establishment

11:20— A Comparison of compact Polarimetry, dual pola-
rization and single Polarization Modes within RADARSAT
Constellation Mission for Detection and Discrimination
of Ships and Icebergs

Desmond Power, C-CORE

11:40— Improved Vessel Detection and Characterization
for RADARSAT-2

Evgeniy Lebed, MDA Systems Ltd

12:00— Benefits and Limitations of Active-Wide-Area-
Surveillance for Maritime Domain Awareness

Chad Kabatoff, Department of National Defence

11:00 - 12:20 | SH-3140

**CARTOGRAPHIE DES ZONES INONDABLES #1 /
FLOOD PLAIN MAPPING WITH EO #1**

11:00— Expert Systems for Floodplain Characterization

Brian Brisco, Canada Centre for Remote Sensing

11:20— Snow Pack characterization with UAV's for Flood
Plain mapping

Richard Fernandes, Canada Centre for Remote Sensing

11:40— Land Cover Attribute Mapping of the Greater
Toronto Area in Support of Flood Risk Assessments

Ying Zhang, Canada Centre for Mapping and Earth Observation

12:00— SAR Techniques for Dynamic Surface Water
and Flooded Vegetation Mapping for Flood Plain
Characterization

Brian Brisco, Canada Centre for Remote Sensing

11:00 - 12:20 | SH-3220

**INNOVATION DANS L'UTILISATION DES DRONES
EN SCIENCES NATURELLES / INNOVATIVE UAVS
USES IN NATURAL SCIENCES**

11:00— CHIEM: A new compact Camera for hyperspectral
Imaging

Joris Blommaert, VITO

11:20— UAVs for environmental Research: innovating new
Methods vs transposition of established Remote Sensing
Tools

Jérôme Théau, Université de Sherbrooke

11:40— Evaluating RPAS Flight Parameters on Individual
Plant Mapping Accuracy

Derek Robinson, University of Waterloo

12:00— Assessing Pine Processionary Moth defoliation
using unmanned aerial Systems

Udaya Vepakomma, FP Innovations

12:20 - 13:30 | POLYVALENTE
REPAS / LUNCH

12:30 - 13:20 | SH-3620
**TABLE RONDE: DÉFIS POUR LA PROCHAINE
GÉNÉRATION DE SATELLITES RSO /
PANEL DISCUSSION: CHALLENGES FOR
NEXT GENERATION SAR**

Alan Thompson, MDA | Keith Beckett, UrTheCasr | Markus Jochum, Airbus | Dirk
Geutdner, ESA | Guy Séguin, INSARSAT

12:30 - 13:00 | AGORA
**CONFÉRENCIER D'HONNEUR / KEYNOTE
MELANIE GOODCHILD, WATERLOO INSTITUTE
FOR SOCIAL INNOVATION AND RESILIENCE**
Anishinaabe Gikendaasowin: Indigenous knowledge
systems, place, language and culture

13:00 - 13:40 | SH-2620
**CONFÉRENCIER D'HONNEUR / KEYNOTE
MARTIN WOOSTER, KING'S COLLEGE LONDON**
Deriving Fire Emitted Carbon & Smoke Emissions from
Satellite Fire Radiative Power Observations

13:20 - 16:00 | CHAUFFERIE
**ATELIER UNE PLANÈTE UNE SANTÉ:
RÉSOLUTION DE PROBLÈMES AU MOYEN
DE SCÉNARIOS / ONE EARTH ONE HEALTH
WORKSHOP: PROBLEM SOLVING**

Richard Fournier, Université de Sherbrooke

13:30 - 14:50 | SH-3120
Q&R ÉTUDIANT / STUDENT Q&A

13:30 - 14:50 | AMPHITHEATRE
**MISSION DE LA CONSTELLATION RADARSAT #2 /
RADARSAT CONSTELLATION MISSION #2**

13:30— RCM SAR Payload – An Overview of Performance
Aurélien Fourmault, MDA Space Missions

13:50— The Stepped-Receive Capability in the RADARSAT
Constellation Mission
Alan Thompson, MDA

14:10— RCM Data Utilization & Application Plan (DUAP)
Daniel Delisle, Canadian Space Agency

14:30— Comparison between Image Products from the
RADARSAT Constellation Mission and RADARSAT-2
Alan Thompson, MDA

13:30 - 14:50 | SH-R810
POLINSAR

13:30— Zap Functions: Phase Information in Quad and
Compact Polarimetry
Shane Cloude, AEL Consultants

13:50— Frequency Variation of the polarimetric Scattering
Mechanisms of Forests and its Consequences on Interfero-
metric Height
Laetitia Thirion-Lefevre, SONDR/CentraleSupélec

14:10— 3D Characterization of Ecosystems with re-
peat-Pass polarimetric and interferometric Synthetic
Aperture Radar
Marc Simard, NASA Jet Propulsion Laboratory

13:30 - 14:50 | SH-2420
**TÉLÉDÉTECTION HYPERFRÉQUENCE DE LA
CRYOSPHERE #2 / MICROWAVE REMOTE
SENSING OF THE CRYOSPHERE #2**

13:30— A First Approach for an Approximate Calculation
of Surface Heights for Ice Caps from TanDEM-X InSAR
Measurements for Devon Island
Birgit Wessel, German Aerospace Center (DLR)

13:50— SAR Remote Sensing of Ice Sheets, Glaciers,
and Ice Caps
Bernd Scheuchl, University of California, Irvine

14:10— Hybrid Wide-area Backscatter Maps combining
Sentinel-1 and Radarsat-2 Observations
David Small, University of Zurich

14:30— Interpreting DinSAR seasonal Surface Displace-
ment in a continuous Permafrost high arctic Environment
Ashley Rudy, Queen's University

13:30 - 14:50 | SH-3620
**COOPÉRATION JAXA-ASC DANS LA
SURVEILLANCE DES DÉASTRES À L'AIDE DES
SATELLITES RSO#1 / JAXA-CSA COOPERATION
IN SAR SATELLITE DISASTER MONITORING#1**

13:30— Advanced Land Observing Satellite-2 L-band SAR
Applications
Shinichi Sobue, JAXA

13:50— Detection of small Surface Displacement by InSAR
using RADARSAT-2, ALOS and ALOS-2 Data
Yu Morishita, Geospatial Information Authority of Japan

14:10— InSAR Deformation monitoring from RADARSAT 2
and ALOS Images
Vern Singhroy, Canada Centre for Remote Sensing

14:30— Comparison of Landslides' Recognition Capacity
of L- and C-band RADAR Polarimetry
Ryoichi Furuta, Remote Sensing Technology Center of Japan

13:30 - 14:50 | SH-3420
**SÉCURITÉ MARITIME ET APPLICATIONS #2 /
MARITIME SECURITY AND APPLICATIONS #2**

13:30— Multi-polarization SAR Ship Detection: a fair
Comparison using the TanDEM-X Pursuit monostatic Mode
Ferdinando Nunziata, Università degli Studi di Napoli Parthenope,
Dipartimento di Ingegneria

13:50— Icebergs in Sea Ice: Detection and Iceberg-Ship
Discrimination With RADARSAT-2 Full Polarimetric Data
Igor Zakharov, C-CORE

14:10— Maritime Pollution Monitoring Using Simulated
RADARSAT Constellation Mission Compact Polarimetric
SAR Data
Mohammed Daboor, Environment and Climate Change Canada

14:30— Waterline Detection and Topography in the
Wadden Sea using Synthetic Aperture Radar Data
Stephan Wiehle, German Aerospace Center (DLR)

13:30 - 14:50 | SH-3140
**CARTOGRAPHIE DES ZONES INONDABLES #2 /
FLOOD PLAIN MAPPING WITH EO #2**

13:30— Validating EO derived Products during Natural
Disasters with Crowdsourced Geographic Information (CGI)
Vincent Decker, Natural Resources Canada

13:50— Optical and Radar Multi-Sensor Integration for His-
torical and Near-Real Time Surface Flood Water Mapping
Ian Olthof, Canada Centre for Remote Sensing

14:10— Improvements and validation of Earth observation
based flood extent and depth Products for Emergency
decision-support
Simon Tolszczuk-Leclerc, Natural Resources Canada

14:30— A mountain water resources monitoring
framework using a temporal fusion of optical, lidar and
radar image data sources at century to season scales
Chris Hopkinson, University of Lethbridge

13:30 - 14:50 | SH-3140
**RSO POUR LA SÉCURITÉ /
SAR FOR SAFETY AND SECURITY**

13:30— Shoreline Extraction from RADARSAT-2 Imagery
in Support of Canadian Armed Forces Operations
Greg Barrie, Defense Research and Development Canada (DRDC)

13:50— ISTEP - User-Centric Flood Information from Earth
Observation Data
Alan Higginson, ADGA Group Consultants Inc.

14:10— Enhanced capability for extracting Geospatial
Intelligence from RADARSAT-2 Imagery
Ron Caves, MDA Systems Ltd

14:30— Overview of Defence Research & Development
Canada's Space-Based Intelligence Surveillance and
Reconnaissance Program
Sonya Banal, Defence Research and Development Canada (DRDC)

13:40 - 14:50 | SH-2620
FIRE WORKSHOP PANEL
Bridging Research and Reality

14:50 - 15:30 | POLYVALENTE
PAUSE / BREAK

15:30 - 16:50 | SH-2620
**ACTIVE FIRE INFORMATION -
NEW DEVELOPMENTS**

15:30— Earth Observation Imagery in Modelling Fire
Regime: Applications and Challenges
Steve Cumming, Université Laval

15:50— Designing data-driven Modeling Strategies for
real-Time Wildfire spread forecasting
Mélanie Rochoux, CECI, Cerfacs - CNRS

16:10— Prescribed Burn, Helicopterborne Infrared
Imagery, and 3D Plume Model for Synthetic FRP
Product Simulation
Ronan Paugam, University of Washington

16:30— A Canadian Wildland Fire Monitoring System
Helena van Mierlo, Canadian Space Agency

15:30 - 16:50 | AMPHITHEATRE

**MISSION DE LA CONSTELLATION RADARSAT #3 /
RADARSAT CONSTELLATION MISSION #3**

15:30— Terrestrial Snow Mass SAR Mission for Canada

Geoff Burbidge, Airbus Defence and Space

15:50— Archives and Applications Of Consistent High Resolution Land Coverage Using RADARSAT-2

Marco van der Kooij, MDA

16:10— Development of a Compressed TCPED Cycle for RCM follow-on missions

Andreas Stock, Airbus Defence and Space

15:30 - 16:50 | SH-R810

**TRAITEMENT D'IMAGES POLARIMÉTRIQUES /
POLARIMETRIC SAR PROCESSING**

15:30— Mean-Shift PolSAR Image Denoising with Position Tensor

Jean-Marie Beaulieu, Laval University

15:50— Speckle Filtering in Polarimetric SAR Images based on a Deep Learning Approach

Samuel Foucher, Computer Research Institute of Montreal

16:10— Polarimetric Radar for Remote geological Mapping of Salt Diapirs on Axel Heiberg Island, Nunavut

Elise Harrington, University of Western Ontario

16:30— Soil Moisture retrieval over agricultural Fields from Polarimetric decomposition of multi-angular SAR Data

Hongquan Wang

15:30 - 16:50 | SH-2420

**TÉLÉDÉTECTION HYPERFRÉQUENCE DE LA
CRYOSPHERE #3 / MICROWAVE REMOTE
SENSING OF THE CRYOSPHERE #3**

15:30— Monitoring Sea Ice in Nunavik's Deception Bay with RADARSAT-2 (quad-pol) and TerraSAR-X (dual-pol) data

Sophie Dufour-Beauséjour, Institut national de la recherche scientifique

15:50— Advancing a Great Lakes Satellite SAR Ice Type Classification Algorithm and Its Relation to the Operational ICECON Risk Assessment Tool

George Leshkevich, NOAA/Great Lakes Environmental Research Laboratory

16:10— Ice-Water Classification on Large Northern Lakes Using RADARSAT-2 SAR Imagery

Marie Hoekstra, University of Waterloo

16:30— Coherence of InSAR for Spatiotemporal Variations of River Ice Cover Monitoring

Zhaoqin Li, University of Saskatchewan

15:30 - 16:50 | SH-3620

**COOPÉRATION JAXA-ASC DANS LA
SURVEILLANCE DES DÉSASTRES À L'AIDE DES
SATELLITES RSO#2 / JAXA-CSA COOPERATION
IN SAR SATELLITE DISASTER MONITORING#2**

15:30— Fire Extent Monitoring using Polarimetric SAR Data for the 2016 Fort McMurray Wildfire

Masato Ohki, JAXA

15:50— Potential of L-band dual-polarized PALSAR Imagery for mapping burned Areas in northern boreal Forests

André, Beaudoin, Natural Resources Canada, Canadian Forest Service, Laurentian Forestry Centre

16:10— Monitoring of sea ice distribution using L- and C-band SAR data at Bering Strait

Tsutomu Yamanokuchi, Remote Sensing Technology Center of Japan

16:30— Evaluation on Visibility of Different Acquired Conditions of SAR Data for Water Monitoring

Keita Miyazaki, JAXA

15:30 - 16:50 | SH-3420

**SÉCURITÉ MARITIME ET APPLICATIONS #3 /
MARITIME SECURITY AND APPLICATIONS #3**

15:30— A Hurricane Wind Speed Retrieval Model for C-band Radarsat-2 Cross-polarization ScanSAR Images: C-3PO

Will Perrie, Bedford Institute of Oceanography

15:50— Detection of potential natural Oil Seeps in the marine Environment of Hudson Bay/Strait and Foxe Channel from RADARSAT 2 Imagery

Simon Tolszczuk-Leclerc, Natural Resources Canada

16:10— Ocean Surface Features derived from Sentinel 1-A/B SAR Images

Wesley Van Wychen, Defence Research and Development Canada (DRDC)

16:30— Quality assessment and Rain correction of Hurricane Wind retrieved from SAR

Hui Shen, Bedford Institute of Oceanography

15:30 - 16:50 | SH-3140

**CARTOGRAPHIE DES ZONES INONDABLES #3 /
FLOOD PLAIN MAPPING WITH EO #3**

15:30— An Overview of SWOT related hydrologic research in Canada, with a focus on the St. Lawrence and Peace Athabasca Delta projects

Robert Leconte, Université de Sherbrooke

15:50— Operational Near-real Time Flood Extent Mapping in Urban Areas Based on C-Band SAR Data and Flood Return Period Data

Marion Tanguy, Institut national de la recherche scientifique (INRS)

16:10— Development of a Digital Water Surface Model and in situ bathymetric correction of multi-spectral LiDAR; a case-study at the Bow and Elbow rivers

Maxim Okhrimenko, University of Lethbridge

16:30— River Erosion Monitoring, Analysis, and Prediction using Microwave Remote Sensing Data

Md Saifuzzaman, McGill University

15:30 - 16:50 | SH-3220

**DRONES POUR LE DIAGNOSTIC, LE SUIVI,
ET LA GESTION DES FORÊTS /
UAV FOR FOREST ASSESSMENT, MONITORING
AND MANAGEMENT**

15:30— Development of a High-Accuracy UAV-Photogrammetry Solution for Automated Environmental Modeling

Mozhdeh Shahbazi, University of Calgary

15:50— Small is the new BIG : Monitoring and future of the Forest Stands with UAS

Udaya Vepakomma, FP Innovations

16:10— The Role of UAVs in the Early Detection of Mountain Pine Beetle Mortality

Greg McDermid, University of Calgary

16:30— UAVs applied to wildlife Studies

Jérôme Théau, Université de Sherbrooke

16:00 - 16:40 | CHAUFFERIE

**ATELIER UNE PLANÈTE UNE SANTÉ:
DISCUSSIONS / ONE EARTH ONE HEALTH
WORKSHOP: DISCUSSION**

Guy Aubé, CSA | Dirk Werle, Erde Environmental Research

16:40 - 16:50 | CHAUFFERIE

**ATELIER UNE PLANÈTE UNE SANTÉ:
CONCLUSION / ONE EARTH ONE HEALTH
WORKSHOP: CONCLUSION**

Matthew W. Gilmour, Public Health Agency of Canada

17:00 - 17:30 | AMPHITHEATRE

**CONFÉRENCIER D'HONNEUR / KEYNOTE
NICHOLAS OGDEN, PUBLIC HEALTH RISK
SCIENCES DIVISION, NATIONAL
MICROBIOLOGY LABORATORY, PHAC**

Contribution of Earth Observation to Public Health Practices

17:30 - 17:50 | AMPHITHEATRE

ONE EARTH ONE HEALTH WORKSHOP: REPORT

Matthew W. Gilmour, Public Health Agency of Canada

17:50 - 18:00 | AMPHITHEATRE

CONCLUSION - DAY 2

18:30 - 23:00 | HALL PANORAMIQUE - VIEUX PORT DE MONTRÉAL
SOUPER BANQUET / BANQUET DINNER

7:30 - 8:30 | HOTEL 10 RESTAURANT
STUDENT PROGRAM - NETWORKING BREAKFAST

7:45 - 17:00 | HALL
INSCRIPTION / REGISTRATION

7:45 - 15:45 | SALLE POLYVALENTE
SALON DES EXPOSANTS / TRADE SHOW

8:00 - 17:00 | AGORA
SALON DES EXPOSANTS AGMQ

8:15 - 8:30 | AMPHITHEATRE
**MOT DE BIENVENUE DU SOMMET OT /
EO SUMMIT 2017 WELCOME ADDRESS**

8:30 - 9:00 | AMPHITHEATRE
**CONFÉRENCIER D'HONNEUR / KEYNOTE
STEVEN RAMAGE, GEO SECRETARIAT**
Earth observations for a sustainable future

9:10 - 10:30 | AGORA
**CONFÉRENCE D'OUVERTURE AGMQ
STÉPHANE ROCHE, UNIVERSITÉ LAVAL**
Smart Cities

9:10 - 9:50 | SH-2620
**ACTIVE FIRE INFORMATION -
USING AIRBORNE SYSTEMS**

9:10— Very Large-Scale, High Spatial Resolution Airborne Thermal Mapping of Wildfires in Canada using the TABI-1800
Jason Howse, ITRES Research

9:30— Hummingbird Drones' Application of UAVs on the Fireline
Robert Atwood, Hummingbird Drones Inc.

9:10 - 10:30 | AMPHITHEATRE
**TÉLÉDÉTECTION RSO DE PROCHAINE
GÉNÉRATION POUR LES GLACES MARINES & DE
LEURS PROPRIÉTÉS#1 / NEXT-GEN SAR REMOTE
SENSING OF SEA ICE & ICE FEATURES#1**

9:10— Sea Ice Characterization Using Simulated Compact Polarimetric (RCM) and Compact Polarimetric (RISAT-1) SAR Data
Suman Singha, German Aerospace Center (DLR)

9:30— Mapping Hazardous Sea Ice Features With Advanced Capabilities of SAR Satellites
Igor Zakharov, C-CORE

9:50— Melt Season Sea Ice discrimination in the Northwest Passage with C- and L-band SAR
Randy Scharien, University of Victoria

10:10— Sea Ice Classification Using C-band Compact Polarimetric SAR during the Advanced Melt Season in Victoria Strait, Canadian Arctic Archipelago
Sasha Nasonova, University of Victoria

9:10 - 10:30 | SH-R810
**COLLABORATION ASC-DLR: SYNERGIE DES
DONNÉES EN BANDE C & X #1 / CSA-DLR COL-
LABORATION: C & X BAND DATA SYNERGIES #1**

9:10— Forest Height and Aboveground Biomass retrieval in Tropical Peat Swamp forests using Multi-Pass X- and C-band PolInSAR Data
Sandra Lohberger, RSS - Remote Sensing Solutions GmbH

9:30— CSA-DLR Collaboration: Forest Height and Aboveground Biomass Retrieval in Tropical Forests using Multi-pass C- and X- band POLInSAR Data
Yi Zang, AUG Signals Ltd.

9:50— Snow Mapping for Fire Risk Management through Integration of C- and X-Band SAR and a Spatially-explicit Hydrological Model
Jean-Simon Michaud, Hatfield Consultants

10:10— Snow Mapping for Fire Risk Management through Integration of a Spatially-Explicit Hydrological Model and X- and C-Band SAR
Fabian Niggemann, VISTA

9:10 - 10:30 | SH-2420
**CALIBRATION ET VALIDATION #1 /
CALIBRATION AND VALIDATION #1**

9:10— SAR Antenna Pointing Determination: Results from the Sentinel-1B Commissioning Phase and novel approaches
Patrick Klenk, German Aerospace Center (DLR)

9:30— DLR's Innovative Point Targets for SAR System Calibration and their Application to Sentinel-1
Klaus Weidenhaupt, German Aerospace Center (DLR)

9:50— Sentinel-1B In-Orbit SAR Calibration and Performance Verification
Dirk Geudtner, European Space Agency

10:10— Polarimetric PALSAR-2 Calibration
Ridha Touzi, CCRS

9:10 - 10:30 | SH-3620
BIODIVERSITÉ / BIODIVERSITY

9:10— Monitoring Habitat Degradation caused by overabundant Geese in Canadian Arctic Migratory Bird Sanctuaries using Trend-Analysis and Landsat Stacks
Jon Pasher, Environment and Climate Change Canada

9:30— Modeling the Impacts of phenological and inter-annual Changes in Landscape Metrics on Local Biodiversity of Agricultural Lands of Eastern Ontario using multi-spatial and multi-temporal Remote Sensing Data
Niloofer Alavi, Carleton University

9:50— Development of a 30 m spatial Resolution 2010 Land Cover of Canada
Darren Pouliot, Canada Centre for Remote Sensing

9:10 - 10:30 | SH-3420
**MILIEUX HUMIDES ET EAUX INTÉRIEURES /
INLAND WATERS AND WETLANDS**

9:10— 30 Year Changes in global Surface Water extent - implications for Conservation and Biodiversity
Margaret Kalacska, McGill University

9:30— A New Algorithm for the Operational Retrieval of Water Quality Parameters in the Laurentine Great Lakes from Satellite Data
George Leshkevich, NOAA/Great Lakes Environmental Research Laboratory

9:50— Precise Delineation of Small Water Bodies from Sentinel-1 Data
Philippe Maillard, Universidade Federal de Minas Gerais

10:10— SAR Intensity and Coherence Images for 2D River Dynamics: A Study of the Amazon River
Francis Canisius, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

9:10 - 10:30 | SH-3140
**L'OBSERVATION DE LA TERRE EN FRANÇAIS /
EARTH OBSERVATION IN FRENCH**

9:10— À la recherche depuis l'Espace de la cité maya perdue: KAAK CHI
William Gadoury, Académie Antoine Manseau

9:30— Analyse des séries temporelles d'images radar à très haute résolution pour l'aide à la gestion des inondations : Étude de cas des inondations de la rivière Richelieu et du lac Champlain
Moslem Ouled Sghaier, École de technologie supérieure

9:50— Effets gonioradiométriques sur des images optiques dans le spectre solaire et leur correction
François Cavayas, Université de Montréal

10:10— L'imagerie satellitaire à très haute résolution au service des ministères et organismes du Gouvernement du Québec
Stephen Cote, Ministère de l'Énergie et des Ressources naturelles

9:10 - 10:30 | SH-3220
APPLICATIONS POLARIMÉTRIQUES AVANCÉES /
ADVANCED POLARIMETRIC APPLICATIONS

9:10— Advances in PolSAR Remote Sensing of seasonal Snow at C-band. Application in alpine Environment by means of Radarsat-2 Data

Jean-Pierre Dedieu, CNRS

9:30— Lava Surface Roughness from Ultra-High Resolution LiDAR Topography Compared to RADARSAT-2 C-Band and AIRSAR L-Band Circular Polarization Ratio

Michael Zanetti, The University of Western Ontario

9:50— Polarimetric Decomposition of dual-Frequency SAR Data for Soil Moisture Retrieval over Agricultural Fields

Hongquan Wang, University of Sherbrooke

10:10— Detection and Validation of Forest Disturbances using RADARSAT-2

Gordon Staples, MDA GSI

9:50 - 11:00 | SH-2620
FIRE WORKSHOP PANEL

Air, Ground And Space Helping Each Other Out

10:30 - 11:00 | POLYVALENTE
PAUSE / BREAK

11:00 - 12:00 | AGORA
AGMQ - LES TECHNOLOGIES D'OBSERVATION
DE LA TERRE APPLIQUÉES AU MONDE
MUNICIPAL ET RÉGIONAL

11:00— Le Lidar et ses dérivés pour une utilisation métropolitaine

Bruno Labonte, Communauté métropolitaine de Québec

11:30— Roof Damage Assessment from Automated 3D Building Models

Kenichi Sugihara, Gifu-Keizai University

11:00 - 12:00 | CHAUFFERIE
AGMQ - VITRINE TECHNOLOGIQUE

11:00— Plateforme mobile de SIGim Web pour consultation et interrogation des données sur le terrain

Maxime Grimard, Geomap GIS Amérique

11:30— Améliorer les processus d'aide à la décision en utilisant les données Lidar et l'imagerie par drone

Martin Couture, Esri Canada

11:00 - 12:30 | AMPHITHEATRE
HISTOIRE DE LA TÉLÉDETECTION /
HISTORY OF REMOTE SENSING

11:00— The development of Canadian Remote sensing SAR Systems

Chuck Livingstone, DRDC Ottawa

11:30— Hyperspectral remote sensing in Canada - the early years (1975-1990)

Gary Borstad, ASL Environmental Sciences (Emeritus)

12:00— Making Government Science Work: The History of the Canada Centre for Remote Sensing (CCRS)

Bob Ryerson, Kim Geomatics Corporation

11:00 - 12:20 | SH-R810
COLLABORATION ASC-DLR: SYNERGIE DES
DONNÉES EN BANDE C & X #2 / CSA-DLR COL-
LABORATION: C & X BAND DATA SYNERGIES #2

11:00— Using C-and X-band SAR Data to characterize and remove the Soil Moisture contribution to InSAR Measurements

Giacomo Falorni, TRE Altamira Inc

11:20— Determination of Soil Moisture in agricultural Fields using X- and C- band SAR Data from TerraSAR-X and RADARSAT-2

Layth Sahib, Spatial Business Integration GmbH

11:40— Wetland Vegetation Mapping Using X- and C- Band SAR Time Series Data

Achim Roth, German Space Center (DLR)

12:00— C and X-band integration for mapping Water Extent and Dynamics under Vegetation, using SAR Amplitude and Interferometric Phase

Valentin Poncos, Kepler Space Inc.

11:00 - 12:20 | SH-2420
CALIBRATION ET VALIDATION #2 /
CALIBRATION AND VALIDATION #2

11:00— A Novel Approach to the external Calibration of Multi-Channel SAR Sensors based on Range compressed Data

Marc Jäger, German Aerospace Center (DLR)

11:20— RADARSAT-2 Image Quality and Calibration Update

Dan Williams, MDA

11:40— SAR Terrain-Geocoding Relative Geometric Comparison between Range-Doppler and Rational-Function methods

Stefan Nedelcu, Canada Centre for Remote Sensing

12:00— Correction des effets cardinaux sur les images SAR quad-pol portant sur le milieu urbain : comparaison des méthodes basées sur les décompositions polarimétriques et des fonctions de compensation relatives à l'angle azimutal des objets

Claude Codjia, UQAM

11:00 - 12:20 | SH-3620
SURVEILLANCE RSO DES MILIEUX HUMIDES #1 /
SAR WATER AND WETLANDS MONITORING #1

11:00— Fundamental Physics of Wood to correct Errors in polarimetric Decompositions

Frank Ahern, TerreVista Earth Imaging

11:20— An online Portal for automated SAR and LiDAR Integration for Surface Water monitoring

Chris Hopkinson, University of Lethbridge

11:40— Coherence Normalization for Wetland Mapping using Multiple SAR Systems

Kevin Murnaghan, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

12:00— Newfoundland and Labrador Wetland Classification and Water Level monitoring using Optical, PolSAR, and InSAR Earth Observation Data

Bahram Salehi, C-CORE

11:00 - 12:20 | SH-3420
IMAGEUR CANADIEN POUR LES EAUX COTIÈRES
ET INTÉRIEURES / CANADIAN IMAGER FOR
COASTAL AND INLAND WATERS

11:00— A Canadian Coastal Ocean Color Imager Feasibility Study

Martin Bergeron, Canadian Space Agency

11:20— The Coastal Ocean Color Imager Mission Concept

Jennifer Busler, MDA

11:40— The Coastal Ocean Color Imager Payload Concept

Louis Moreau, ABB Inc.

12:00— Airborne Campaign Preparations of a Prototype Water Color Imaging Spectrometer in Support of the Coastal Ocean Color Imager

Raymond Soffer, National Research Council Canada

11:00 - 12:20 | SH-3140
RSO POUR LA CARACTÉRISATION DU PERGÉLISOL /
SAR FOR PERMAFROST CHARACTERIZATION

11:00— NWT CCAdapt InSAR Community Monitoring Program

Colin Avey, GNWT Centre for Geomatics

11:20— Using InSAR to Study Permafrost Dynamics

Kevin Schaefer, National Snow and Ice Data Center

11:40— Investigation of polarimetric ALOS-2 for discontinuous Permafrost mapping in northern Alberta Peatlands

Ridha Touzi, CCRS

12:00— Retrieval of Root-Zone Soil Moisture and Permafrost Properties Using Long-Wavelength Polarimetric Radar

Mahta Moghaddam, University of Southern California

11:00 - 12:20 | SH-3220

APPLICATIONS DE LA CONSTELLATION RADARSAT / RADARSAT CONSTELLATION MISSION APPLICATIONS

11:00— Evaluation of Simulated Dual and Compact Polarimetric RADARSAT Constellation Mission Data for Shoreline Sensitivity Mapping
Sarah Banks, Environment and Climate Change Canada

11:20— The Development and Delivery of On-Demand RADARSAT Constellation Mission Ground Deformation Products based on advanced INSAR Technology
Sergey Samsonov, Canada Centre for Mapping and Earth Observation

11:40— A Status Update on Operational Readiness Preparations at the Canadian Ice Service (CIS) for the RADARSAT Constellation Mission (RCM)
Dean Flett, Canadian Ice Service, Environment and Climate Change Canada

12:00— Estimation of First-Year Sea Ice Melt Pond Fraction from Compact Polarization SAR
Will Perrie, Bedford Institute of Oceanography

12:05 - 12:20 | AGORA

AGMQ - REMISE DE BOURSE AGMQ-UQAM

12:20 - 13:30 | POLYVALENTE
REPAS / LUNCH

12:30 - 13:00 | AMPHITHEATRE

CONFÉRENCIER D'HONNEUR / KEYNOTE JONATHON ROSS, GEOSCIENCE AUSTRALIA

Digital Earth Australia and the Open Data Cube - Embedding EO into government business

13:30 - 15:00 | AGORA

AGMQ - LES TECHNOLOGIES D'OBSERVATION DE LA TERRE APPLIQUÉES AU MONDE MUNICIPAL ET RÉGIONAL

13:30— Acquisition et traitement des imageries hyperspectrales de haute résolution pour la cartographie des îlots de chaleur et des microparticules de Montréal
Richard Mongeau, Ville de Montréal

14:00— Déterminants urbains de la santé issus de données d'observation de la Terre
Yves Baudouin, Université du Québec à Montréal

13:30 - 15:00 | CHAUFFERIE

AGMQ - VITRINE TECHNOLOGIQUE

13:30— L'importance de la haute précision des données
Jean-philippe Dargis, Eos Systèmes de Positionnement et Esri Canada

14:00— Le drone: un outil révolutionnaire d'analyse spatiale
Maude Pelletier, Génidrone inc.

14:30— L'utilisation des drones dans le monde municipal
Jonathan Roy, H4G géomatique inc.

13:30 - 14:50 | SH-2620

SMOKE AND AIR QUALITY

13:30— Predicting the minimum Height of Forest Fire Smoke within the Atmosphere using Machine learning and Data from the CALIPSO Satellite
Angela Yao, University of British Columbia

13:50— Wildland Fire Smoke monitoring and forecasting by Ontario Ministry of Environment and Climate Change: recent Case Studies
Frank Dempsey, Ontario Ministry of Environment and Climate Change

14:10— Environment and Climate Change Canada's FireWork System: taking Advantage of Remote Sensing of Wildland Fires to improve Air Quality and Smoke Forecast Services
Didier Davignon, Canadian Meteorological Centre Operations, Environment and Climate Change Canada

13:30 - 14:50 | AMPHITHEATRE

TÉLÉDÉTECTION RSO DE PROCHAINE GÉNÉRATION POUR LES GLACES MARINES ET DE LEURS PROPRIÉTÉS #2 / NEXT-GEN SAR REMOTE SENSING OF SEA ICE & ICE FEATURES#2

13:30— Detection of Melt Ponds in Sea Ice in the Labrador Sea by Quad-Polarized Synthetic Aperture Radar
Will Perrie, Bedford Institute of Oceanography

13:50— An Integrated Approach Utilizing RADARSAT-2 SAR and GLCM Texture to Quantify the Relationship between Aerial Melt-Pond Distribution and Microwave Backscatter
Saroat Ramjan, University of Calgary

14:10— Polarimetric C- and X-band SAR Observations of Multi-Year Sea Ice: towards the retrieval of Sea Ice Surface roughness and thickness
Alec Casey, York University

14:30— Incidence Angle dependency of L-band Microwave backscatter of Arctic Sea Ice
Mallik Mahmud, University of Calgary

13:30 - 14:50 | SH-R810

COLLABORATION ASC-DLR: SYNERGIE DES DONNÉES EN BANDE C & X #3 / CSA-DLR COLLABORATION: C & X BAND DATA SYNERGIES #3

13:30— Synergistic use of X- and C-Band SAR Data for tactical Ship Route planning in the Arctic Waters
Oliver Lang, Airbus

13:50— Detection and Tracking of Icebergs and Ships in Sea Ice with RADARSAT-2 and TerraSAR X/TanDEM-X data
Igor Zakharov, C-CORE

14:10— High Resolution Sea Ice Motion Estimation from C- and X-Band SAR Data Acquired During Antarctic Circumnavigation Expedition
Anja Frost, German Aerospace Center (DLR)

14:30— Multi-application InSAR Integration (MI2): Combined Use of C-Band and X-Band Imagery for Displacement Monitoring
Kathy McKay, 3v Geomatics Inc.

13:30 - 15:10 | SH-2420

AIRE DE CONSERVATION DE LA MER BLEUE POUR LA CALIBRATION/VALIDATION DE SATELLITES OPTIQUES / MER BLEUE PEATLANDS FOR OPTICAL SATELLITE CAL/VAL

13:30— Validation of Sentinel-2 Data Products of a Peatland Test Site using Airborne Hyperspectral Imagery and Field Spectrometry
Raymond Soffer, National Research Council Canada

13:50— Sensitivity Analysis of Atmospheric Correction Methods for Hyperspectral Imagery Using ATCOR4 and FLAASH: A Peatland Example
Gabriela Ifimov, National Research Council Canada

14:10— Towards multi-temporal Estimations of Peatland Net Ecosystem exchange from Airborne and Satellite Imagery
Margaret Kalacska, McGill University

14:30— High Precision GPS Survey at the Mer Bleue Bog: Preliminary Results and Lessons Learnt
H.Peter White, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

14:50— Optical Satellite Simulations for Sentinel-2A for Evaluation of Peatland Applications
H.Peter White, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

13:30 - 14:50 | SH-3620

SURVEILLANCE RSO DES MILIEUX HUMIDES #2 / SAR WATER AND WETLANDS MONITORING #2

13:30— A Multi-Sensor, Multi-Frequency Remote Sensing Approach for Wetland Identification and Change Detection
Sarah Banks, Environment and Climate Change Canada

13:50— Wetland Identification and Change Detection using a multi-sensor, multi-frequency Remote Sensing Approach
Brian Huberty, U.S. Fish & Wildlife Service

14:10— Mapping Wetland Water dynamics using Synthetic Aperture Radar and multi-temporal Shannon Entropy
Valentin Poncos, Kepler Space Inc.

14:30— SAR Techniques for Flooded Vegetation Mapping in Flood Response Products
Brian Brisco, Canada Centre for Remote Sensing, Natural Resources Canada

13:30 - 14:50 | SH-3420
Eaux cotières / Coastal Waters

13:30— Arctic coastal Ecosystem mapping using high Resolution Optical Satellite Imagery
Zhaohua Chen, Environment and Climate Change Canada

13:50— Use of Enhanced Multi-temporal and Conventional Imagery for Inland Water Body and Coastal Zone Characterization
Cynthia Dacre, MDA Information Systems, LLC

14:10— IcePAC - A Regional Scale Sea Ice Concentration Probability model of the Hudson Bay
Charles Gignac, INRS-ETE

14:30— Mapping Eelgrass Beds in shallow coastal Waters in Tabusintac (NB) using WorldView 2 optical Images
David Forsey, University of New-Brunswick

13:30 - 14:50 | SH-3140
Agriculture #1

13:30— Geospatial Analysis of Proximal Soil Sensing and Remote Sensing Data in Precision Agriculture
Md Saifuzzaman, McGill University

13:50— Synergy of TerraSAR-X and SPOT data for Object-based crop classification in South Africa
Masroor Hussain, PCI Geomatics

14:10— Soil Moisture Estimation in the Hunshandake Sandy Land from polarimetric SAR Data
Joseph Buckley, Royal Military College of Canada

14:30— Mapping and Quantification of Soil Cover on Southern Ontario Agricultural Fields
Ahmed Laamrani, Science and Technology Branch, Agriculture and Agri-Food Canada

13:30 - 14:50 | SH-3220
Polarimétrie compacte / Compact Polarimetry

13:30— Comparison of different compact polarimetry Modes in respect to the full polarization for the identification and characterization of the Land use Classes
Gabriel Gosselin, PCI Geomatics

13:50— Marine Surface Wind retrieval from simulated RCM-CP SAR Data for National SAR Winds System
Kerri Warner, Earth Observation & Geomatics - Environment and Climate Change Canada

14:10— Oil Slick Characterization using Simulated Compact Polarimetry Data
Gordon Staples, MDA GSI

14:30— Qualitative Assessment of RADARSAT Constellation Compact Polarimetry for CIS Operational Sea Ice Monitoring
Benoit Montpetit, Environnement et Changement Climatique Canada

14:50 - 15:30 | POLYVALENTE
PAUSE / BREAK

15:30 - 16:00 | AGORA
AGMQ - LES TECHNOLOGIES D'OBSERVATION DE LA TERRE APPLIQUÉES AU MONDE MUNICIPAL ET RÉGIONAL

15:30 - 16:00 | CHAUFFERIE
AGMQ - VITRINE TECHNOLOGIQUE
Utilisation de l'ETL pour intégrer et exploiter les données du territoire disponibles en ligne
Félix Lafond-Touikan, Consortech

15:30 - 16:50 | SH-2620
ORGANIZATIONAL ACTIVITIES

15:30— NASA Applied Science Program: Wildland Fire
Vincent Ambrosia, NASA Ames Research Center

15:50— The Global Observation of Forest Cover and Land Cover Dynamics (GOFC-GOLD) Fire Theme
Tim Lynham, Canadian Forest Service, Natural Resources Canada

16:10— Workshop Outcomes: Opportunities to Apply Remote Sensing in Boreal/Arctic Wildfire Management and Science
Alison York, University of Alaska Fairbanks

15:30 - 16:50 | AMPHITHEATRE
TÉLÉDÉTECTION RSO DE PROCHAINE GÉNÉRATION DES GLACES MARINES ET DE LEURS PROPRIÉTÉS #3 / NEXT-GEN SAR REMOTE SENSING OF SEA ICE & ICE FEATURES#3

15:30—Sea Ice and open Water retrieval from SAR using Bayesian Probability and multisource ancillary Data
Torsten Geldsetzer, Environment and Climate Change Canada

15:50—Automated Pan-Arctic Sea Ice Motion Tracking from Spaceborne Synthetic Aperture Radar
Mike Brady, Environment and Climate Change Canada

16:10—An Electromagnetic Backscatter Modeling of Iceberg at C-band
Md. Saimoom Ferdous, Memorial University of Newfoundland

16:30—Ku-, X-, and C-band Backscatter Evolution from a Saline Snow Cover on First-Year Sea Ice from Late-Winter to Pre-Early Melt
Vishnu Nandan, University of Calgary

15:30 - 16:50 | SH-R810
COLLABORATION ASC-DLR: SYNERGIE DES DONNÉES EN BANDE C & X #4 / CSA-DLR COLLABORATION: C & X BAND DATA SYNERGIES #4

15:30—Monitoring of Man-made Changes Using C- and X-Band SAR Satellite Data
Catherine Hartley, Airbus Defence and Space

15:50—Wide-Area Change Monitoring using RADARSAT-2 and TerraSAR-X
Fernando Greene, MDA

16:10—SAR-based Forest mapping and evaluation of TanDEM-X InSAR Height in Forest Stands
Daniel Baron, Georg-August Universität Göttingen

16:30—TanDEM-X Forest Canopy Height Mapping In NWT
Shane Cloude, AEL Consultants

15:30 - 16:50 | SH-2420
GÉOLOGIE / GEOLOGY

15:30—Surface roughness and polarimetric SAR Signatures of Geologic Units in the Canadian Arctic
Byung-Hun Choe, The University of Western Ontario

15:50—Polarimetric SAR signatures and Kinematic LiDAR Scanning Surface Roughness of Periglacial Patterned Ground in the Canadian Arctic
Michael Zanetti, The University of Western Ontario

16:10—The use of deep convolutional neural Networks for surficial Geology Mapping
Rasim Latifovic, Canada Centre for Remote Sensing

16:30—SAR Quad Polarization for Improved Structural Mapping in the Central Region of the Manicouagan Impact Crater, Canada
Mary-Anne Fobert, University of New Brunswick

15:30 - 16:50 | SH-3620
SURVEILLANCE RSO DES MILIEUX HUMIDES #3 / SAR WATER AND WETLANDS MONITORING #3

15:30—Surface Water Detection Using RADARSAT-2 Data
Sarah Banks, Environment and Climate Change Canada

15:50—Change Detection in Wetland Using RADARSAT-2 Full and Simulated Compact Polarimetric Time Series SAR Data
Mohammed Dabboor, Environment and Climate Change Canada

16:10—A Synthetic Aperture Radar, Optical and Lidar, Data Fusion Approach to Wetland Classification in a Boreal Environment of the Utikuma Regional Study Area, Alberta, Canada
Joshua Montgomery, Department of Geography, University of Lethbridge

16:30—An Interferometric Coherence Analysis of Newfoundland Wetlands
Fariba Mohammadimanesh, C-CORE, Faculty of Engineering and Applied Science, Memorial University of Newfoundland

15:30 - 16:50 | SH-3420

**BATHYMÉTRIE ET TEMPÉRATURE DE SURFACE
DES OCÉANS / BATHYMETRY AND SST**

15:30—Satellite Derived Bathymetry for improving
Canadian Hydrographic Service Navigational Charts
René Chénier, Canadian Hydrographic Service

15:50—Bringing Acoustic Remote Sensing into the
Mainstream
Vincent Lecours, University of Florida

16:10—Analyzing performances of different atmospheric
correction techniques for Landsat data processing:
Applications for shallow water bathymetry
Christopher Ilori, Simon Fraser University

16:30—Temporal Prediction of SST-Sea Surface
Temperature along the Western Californian Coast for
the period of years 1919-2015
Geetali Saha, G H Patel College of Engineering and Technology

15:30 - 16:50 | SH-3140
AGRICULTURE #2

15:30—Crop Classification Using the MNF Transformation
of Multi-temporal RADARSAT-2 Polarimetric SAR Data
Chunhua Liao, University of Western Ontario

15:50—Assessing Unmanned Aerial Systems Imagery for
Deriving Information Related to Potato Production
Anne Smith, Agriculture and Agri-Food Canada

16:10—Leaf Water Content Estimation in Grassland using
Hyperspectral Remote Sensing
Phuong D. Dao, University of Toronto

16:00 - 16:55 | AGORA

AGMQ - PLÉNIÈRE ET MOT DE FERMETURE

Les technologies d'observation de la terre appliquées
au monde municipal et régional
Stéphane Roche, Université Laval

17:00 - 17:30 | AMPHITHEATRE

**KEYNOTE - CONFÉRENCIER
MIKE FLANNIGAN, UNIVERSITY OF ALBERTA /
WESTERN PARTNERSHIP FOR WILDLAND FIRE
SCIENCE**

Satellite remote-sensing information: Challenges and
Opportunities for Canadian Fire Management Agencies

17:30 - 17:50 | AMPHITHEATRE

**WILDFIRE REMOTE SENSING WORKSHOP
REPORT**

17:50 - 18:00 | AMPHITHEATRE

EO SUMMIT 2017 CONCLUSION

9:00 - 10:30 | SH-3620

SAR TUTORIAL #1

Interferometric Processing
Gabriel Gosselin, PCI Geomatics

10:30 - 11:00

PAUSE / BREAK

11:00 - 12:30 | SH-3620

SAR TUTORIAL #2

Space-based GMTI radar
Chuck Livingstone, DRDC

12:30 - 13:30

REPAS / LUNCH

13:30 - 15:30 | SH-3620

SAR TUTORIAL #3

The role of Spaceborne SAR in Cryosphere Science
Bernd Scheuchl, University of California

RADARSAT-2

MDA is a world leader in space-based remote sensing
solutions that serve the needs of customers globally



SESSIONS INTERACTIVES POSTERS SESSION

SALLE /
ROOM
SH-3260

**SESSION INTERACTIVE #1 —
MARDI 20 JUIN 2017
POSTER SESSION #1 —
TUESDAY, JUNE 20, 2017**

10:30 - 15:30

COMPARISON OF UAV-BASED RGB CAMERA DATA TO MULTISPECTRAL IMAGERY FOR DETERMINING STRUCTURAL CHARACTERISTICS OF A CONIFEROUS FOREST

Griffin Williams, Trent University

A COMBINED METHOD FOR VEGETATION CLASSIFICATION BASED ON VISIBLE BANDS FROM UNMANNED AERIAL VEHICLES (UAV) IMAGES: A CASE STUDY FOR WILD PARSNIP PLANTS

Jingyi Liu, Queen's University

ALIGNMENT OF SPECTROMETER AND MULTISPECTRAL CAMERA DATA IN LOW-COST UAV REMOTE SENSING FOR PRECISION FARMING

Chui Zeng, Carleton University

UNMANNED AERIAL PHOTOGRAPHIC MAPPING OF INTERTIDAL EELGRASS

Natasha Nahirnick, University of Victoria

ASSESSING SOIL ORGANIC CARBON LEVELS AT THE SUB-FIELD SCALE IN SOUTHWESTERN ONTARIO USING UAVS WITH HYPERSPECTRAL, MULTISPECTRAL AND THERMAL SENSORS

Ahmed Laamrani, Department of Plant Agriculture, University of Guelph

CLOUDUAV: A NEW CANADIAN NETWORK-ENABLED CLOUD-BASED OPEN SOURCE SOFTWARE PLATFORM FOR UAV RESEARCHERS

Jordan Eamer, University of Calgary

USING UAVS FOR OBSERVING PREDATORY BEHAVIOR TO INFER SKEENA EULACHON MIGRATION ROUTES

Dillon, Buerk, Metlakatla Stewardship Society

UAV-BASED PHOTOGRAMMETRY PROVIDES AN ACCURATE AND COST-EFFECTIVE MEANS OF MAPPING NORTHERN LANDSCAPE CHANGES

Robert Fraser, Canada Centre for Mapping and Earth Observation

ESTIMATION OF WHEAT CANOPY HEIGHT USING UAV DERIVED 3D POINT CLOUD DATA

Jinfei Wang, University of Western Ontario

OFF-THE-SHELF UNMANNED AERIAL VEHICLE AT THE MER BLEUE BOG

H.Peter White, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

SPATIAL ANALYSIS OF A MOUNTAIN PROFILE USING UNMANNED AERIAL VEHICLE (UAV) IMAGERY – A CASE STUDY FOR SKI RESORT DEVELOPMENT AND PLANNING

Isabella Beharrell, Selkirk College

MULTISPECTRAL LIDAR DATA CLUSTERING USING GAUSSIAN DECOMPOSITION

Salem Morsy, Ryerson University

AUTOMATED ROAD OBJECTS EXTRACTION FROM MOBILE LIDAR DATA

Salem Morsy, Ryerson University

ASSESSING THE CAPACITY OF UAV-BASED LIDAR TO SUPPORT OPERATIONAL-LEVEL FOREST INVENTORY IN DIFFERENT FOREST ENVIRONMENTS

Bastien Vandendaele, Université de Sherbrooke

A LOW-COST LIDAR SCANNING SCHEME INTEGRATING MULTI-BEAM LEDDAR, SERVO, AND VIDEO

Zhouxin Xi, Department of Geography, University of Lethbridge

AN OVERVIEW OF THE CANADIAN FEDERAL AIRBORNE LIDAR DATA ACQUISITION GUIDELINES

Steven McArdle, 4DM

SKYFORESTTM TO COMPARE MULTI-RESOLUTION STEREO-IMAGE POINT CLOUDS WITH ALS DATA FOR ESTIMATION OF GREAT LAKES ST. LAWRENCE FOREST INVENTORY ATTRIBUTES

Yaser Sadeghi, First Resource Management Group Inc.

A COMPARISON OF RANDOM FOREST AND KNN FOR FRI MAPPING IN NORTHERN CANADA

Craig Mahoney, University of Lethbridge

ANALYSIS OF RADIOMETRIC ATTENUATION OF AIRBORNE MULTI-SPECTRAL LIDAR AT DIFFERENT RANGES

Maxim Okhrimenko, University of Lethbridge

THE USE OF UAV COLLECTED IMAGERY IN A SEMI-AUTOMATED WORKFLOW TO GENERATE GEOLOGIC STRUCTURE INFORMATION; A MASTER'S RESEARCH PROJECT

Tyler Pubben, Vancouver Island University

USING KULLBACK-LEIBLER DISTANCE FOR OBJECT-BASED CHANGE DETECTION IN HIGH SPATIAL RESOLUTION IMAGES

Mohammad Rezaee, University of New Brunswick

GEOSEGMENT: A TOOL FOR SEGMENTING IMAGE AND EVALUATING ITS QUALITY THROUGH AUTOMATED SHAPE COMPARISON

Dongmei Chen, Queen's University

RECONSTRUCTION OF LANDSAT TIME SERIES USING AN AVHRR BASED IMPUTATION APPROACH

Darren Pouliot, Canada Centre for Remote Sensing

USE OF LANDSAT 8 TO PRODUCE A CLOUD-FREE, MEDIUM-RESOLUTION, GLOBAL MOSAIC, NATURALVUE® 2.0

Chris Peterson, MDA Information Systems, LLC

MAPPING POTENTIAL MAYA SITES IN THE PETÉN CAMPECHANO AREA (STATE OF CAMPECHE, MEXICO) USING OPTICAL AND RADAR REMOTE SENSING

Armand LaRocque, Faculty of Forestry and Environmental Management, University of New Brunswick

DETECTION OF MAYAN SACBEOB IN THE DENSE TROPICAL FOREST OF YUCATAN USING OPTICAL AND SAR IMAGERY

Armand LaRocque, Faculty of Forestry and Environmental Management, University of New Brunswick

DETECTION OF TROPICAL INDIGENOUS AND NON-INDIGENOUS COMMUNITIES ACROSS THE PERUVIAN AMAZON USING LANDSAT 8 IMAGERY AND GOOGLE EARTH ENGINE

Lesley Johnson, McGill University

SUPER-RESOLUTION OF HYPERSPECTRAL IMAGERY: USE OF UNMIXED COMPONENTS AND DEEP-LEARNING

Jignesh Bhatt, Indian Institute of Information Technology, Vadodara

COAL MINE RECLAMATION PERFORMANCE ASSESSMENT USING TIME-SERIES LANDSAT DATA

Todd Shipman, Alberta Geological Survey, Alberta Energy Regulator

DETECTION AND CLASSIFICATION OF FOREST DISTURBANCES IN THE ALBERTA OIL SANDS REGION USING LANDSAT TIME SERIES DATA

Rachel Wasson, Trent University

MINING ACTIVITY AND CARIBOU HABITAT: SEEKING WHERE MINING DISTURBANCES IMPACT THE BATHURST CARIBOU RANGE

H.Peter White, Canada Centre for Remote Sensing, Natural Resources Canada, Ottawa

RECOGNITION OF ALTERATIONS IN PORPHYRY COPPER DEPOSITS ZONES USING REMOTE SENSING AND AIRBORNE GEOPHYSICS DATA

Ali Esmaeily, Graduate University of Advanced Technology

**SESSION INTERACTIVE #2 —
MERCREDI 21 JUIN 2017
POSTER SESSION #2 —
WEDNESDAY, JUNE 21, 2017**

10:30 - 15:30

INSAR IN COLD REGION HYDROLOGY: A CASE STUDY IN MONITORING RIVER ICE COVER DEFLECTION

Zhaoqin Li, University of Saskatchewan

INTEGRATION OF GNSS, EO AND SATCOM FOR SNOW MONITORING IN CANADA - FIRST RESULTS OF ESA IAP SNOWSENSE DEMO PROJECT

Florian Appel, VISTA Remote Sensing in Geosciences GmbH

USING RADARSAT-2 TO IDENTIFY ICE GROWTH AND DECAY IN CENTRAL ONTARIO: 2008-2016

Justin Murfitt, University of Toronto Mississauga

COMMUNITY SEARCH AND RESCUE ICE INFORMATION PROJECT

Thomas Zagon, Canadian Ice Service

EVALUATION OF RANDOM FOREST SNOW DEPTH MODELING USING AIRBORNE LIDAR

Kelsey Cartwright, University of Lethbridge

LAKE ERIE ICE CLASSIFICATION USING DUAL POLARIZATION RADARSAT-2 IMAGERY

Junqian Wang, University of Waterloo

MONITORING ELA OF DURUNG DRUNG GLACIER OF GREATER HIMALAYA USING RISAT-1 (SAR) DATA

Rupal Brahmabhatt, City of Mississauga (CO-Op student)

ASSIMILATION DES OBSERVATIONS SPATIALES MICRO-ONDES DANS LE SCHÉMA DE SURFACE DU MODÈLE MÉTÉOROLOGIQUE CANADIEN POUR L'AMÉLIORATION DE LA PRÉVISION DES ANALYSES DE CHAMPS DE NEIGE

Melody Poncin, Université de Sherbrooke

SEA ICE SAR BACKSCATTERING ANALYSIS IN ANTARCTIC NAVIGATION ZONES

Hector Salgado, Servicio de Hidrografia Naval

SENSIBILITÉ DU SIGNAL PALSAR BANDE L À LA TEXTURE DU SOL ET À LA VÉGÉTATION AU NUNAVIK

Chaima Touati, INRS-ETE

ANALYSE ET ÉVALUATION DES DONNÉES DE GRILLE NEIGE DU QUÉBEC ISSUES DES MICRO-ONDES PASSIVES POUR LA GRANDE ET MANICOUAGAN DE 2006 À 2010

Saida Farah Badreddine, Université de Sherbrooke

**SESSION INTERACTIVE #3 —
JEUDI 22 JUN 2017
POSTER SESSION #3 —
THURSDAY, JUNE 22, 2017**

10:30 - 15:30

LIDAR AND MULTISPECTRAL CLASSIFICATION OF BALSAM FIR TREE STATUS FOR ACCURATE PREDICTIONS OF MERCHANTABLE VOLUME
Sarah Yoga, Laval University

STATUS OF DUCKS UNLIMITED CANADA'S ENHANCED WETLAND CLASSIFICATION (EWC) INVENTORY AND CASE STUDY OF THE AKAITCHO WETLAND MAPPING PROJECT
Michael Merchant, Ducks Unlimited Canada

AN OBJECT-ORIENTED APPROACH FOR LAND COVER CHANGE DETECTION USING SYNTHETIC APERTURE RADAR TIME-SERIES AND OPEN SOURCE SOLUTIONS: A CASE STUDY IN THE GUAYAS RIVER DELTA, ECUADOR
Charlotte Smetanka, Université de Sherbrooke

HYDRODYNAMICS OF THE PEACE-ATHABASCA WETLANDS FROM HIGH-RESOLUTION SPACE-BORNE INSAR
Gabriela Siles, Université de Sherbrooke

ANALYZING COASTLINES EXTRACTED FROM RADARSAT-2 IMAGERY: THE EFFECT OF TOPOGRAPHIC AND SEA-SURFACE CONDITIONS
Koreen Millard, Defence Research and Development Canada (DRDC)

A COMPARISON OF WORLDVIEW-2, PLEIADES AND RAPIDEYE IMAGERY FOR REMOTE SENSING OF SUBMERGED EELGRASS
Heather Ward, Stantec Consulting Ltd

ADVANCES IN REMOTE SENSING OF INLAND WATER QUALITY AND VEGETATION DYNAMICS BY MEANS OF SENTINEL-2A AND LANDSAT-8 DATA. APPLICATION IN AN ARCTIC RIVER BASIN (NUNAVIK, CANADA)
Jean-Pierre Dedieu, CNRS

ASSESSMENT OF LABORATORY AND SONDE-BASED MEASURES OF CHLOROPHYLL-A, TURBIDITY, AND ORGANIC CARBON IN DIFFERENT WATERSHEDS IN CANADA
Kiana Zolfaghari, Agriculture and Agri-Food Canada

LONG-TERM SPATIAL-TEMPORAL EELGRASS HABITAT CHANGE (1932-2016) IN THE SALISH SEA
Natasha Nahirnick, University of Victoria

GAINING DATA OF SURFACE CHLOROPHYLL-A IN THE SALISH SEA THROUGH MULTI-SENSOR MERGING AND CLOUD-FILLING INTERPOLATION
Andrea Hilborn, Department of Geography, University of Victoria

MODELING SPATIO-TEMPORAL VARIATION OF ALGAL BLOOM USING MODIS INLAND WATERS DATA PROCESSING
Claudie Ratté-Fortin, INRS-ETE

ANALYSE COMPARATIVE DES MODÈLES BIO-OPTIQUES D'ABSORPTION DE LA MATIÈRE ORGANIQUE DISSOUE COLORÉE DANS LES EAUX TROPICALES EN UTILISANT LES DONNÉES LANDSAT 5 TM: CAS DU RÉSERVOIR DU FUNIL (BRÉSIL)
Sarah Martins, INRS

PATTERNS AND CHANGES OF URBAN FLASH FLOOD RISKS IN TWO CANADIAN URBAN CENTRES
Jinfei Wang, The University of Western Ontario

URBAN ROAD DETECTION ON HIGH RESOLUTION SATELLITE RADAR IMAGES FOR NATURAL DISASTER EMERGENCY RESPONSE
Francis Charette Migneault, Laboratoire d'imagerie, de vision et d'intelligence artificielle (LIVIA), École de technologie supérieure, Université du Québec

EXTRACTION DES INFORMATIONS SUR LA MORPHOLOGIE DES MILIEUX URBAINS PAR ANALYSE DES IMAGES RADARS INTERFÉROMÉTRIQUES
Michelle Aubrun, Département de géographie, Université de Montréal

ESRI CITYENGINE EVALUATION FOR AUTOMATIC GENERATION OF 3D MODELS
Frank Zhang, Selkirk College

TRAVAUX D'AGRANDISSEMENT DU TERMINAL PORTUAIRE DE CONTRECŒUR: SUIVI DES ÉCOSYSTÈMES CÔTIERS À L'AIDE DES TECHNOLOGIES D'OBSERVATION DE LA TERRE
Guy Aubé, Canadian Space Agency

ÉVALUATION DE L'APPORT DES DONNÉES POLARIMÉTRIQUES RADARSAT-2 POUR LE SUIVI DE L'HUMIDITÉ DU SOL ET LA CLASSIFICATION DES STRUCTURES INTERNES DES TOURBIÈRES
Ouail Messari, Institut national de la recherche scientifique

EVALUATING THE DROUGHT-INDUCED VARIATION IN LAND SURFACE PHENOLOGY OF THE SEMI-ARID CANADIAN PRAIRIE USING AVHRR NDVI TIME SERIES
Xulin Guo, University of Saskatchewan

DETECTING VEGETATION CHARACTERISTICS USING REMOTE SENSING DATA AND RADIATION TRANSFER MODELING
Bing Lu, University of Toronto Mississauga

INTEGRATING FUNCTIONAL PERSPECTIVE OF PLANT CO-OCCURRENCE WITH RARE SPECIES DISTRIBUTION MODELS: AN APPROACH TO MAXIMIZE REMOTELY SENSED PREDICTION ACCURACY OF LOW PREVALENCE SPECIES
Anjika Attanayake, University of Saskatchewan

SAMPLING OPTIMIZATION FOR SOIL-NUTRIENT MAPPING
Hsin-Hui Huang, McGill University

REGIONAL MONITORING OF IRRIGATION AND WATER UPTAKE IN DESERT AREAS USING FREE EARTH OBSERVATION DATA
Mimouni Mustapha, Sahara and Sahel Observatory

EVALUATION OF RADARSAT-2 BASED DIGITAL ELEVATION MODELS DERIVED FROM INSAR FOR A FLAT INLAND DELTA IN THE HIGH LATITUDES OF NORTHERN CANADA
Apurba Das, University of Saskatchewan

METHODOLOGY FOR PRODUCING LANDSAT TIME SERIES ANALYSIS READY DATASETS: AN EXAMPLE FROM THE CANADIAN ARCTIC MIGRATORY BIRD SANCTUARIES
Rasim Latifovic, Canada Centre for Remote Sensing

APPLICATION OF DRONE IN COASTAL FLOOD EVENT MONITORING IN THE VOLTA DELTA, GHANA
Kwasi Appeaning Addo, University of Ghana

CONNECTING LETHBRIDGE: USING TOPO-BATHYMETRIC LIDAR AND HEC RAS TO ASSESS THE EFFECTS OF BRIDGE DEVELOPMENT ON THE OLDMAN RIVER FLOODPLAIN
Chris Hopkinson, University of Lethbridge

EVALUATING THE STATISTICAL CHARACTERISTICS OF THE DIFFERENCE AMONG SUB-DAILY GPM SATELLITE-BASED PRECIPITATION ESTIMATES OVER THE MIDDLE EAST
Mohamed Shawky, University of Calgary

DEVELOPMENT OF RATING CURVES ESTIMATES FOR RIVER DISCHARGE USING RADARSAT IMAGERY
Karem Chokmani, INRS-ETE

VARIATION IN DISTRIBUTION AND SIZE STRUCTURE OF PRAIRIE POTHOLE WETLANDS
Xulin Guo, University of Saskatchewan

FOREST HEIGHT ESTIMATION USING MULTI-BASELINE POLARIMETRIC SAR INTERFEROMETRY AND MACHINE LEARNING
Michael Denbina, NASA Jet Propulsion Laboratory

RIVER ICE BREAKUP MONITORING WITH THE RADARSAT CONSTELLATION MISSION: PRELIMINARY RESULTS
Yask Shelat, Canada Centre for Mapping and Earth Observation

CONTRIBUTION DES SATELLITES SURFACE WATER AND OCEAN TOPOGRAPHY (SWOT) ET RADARSAT-2 POUR LA MODÉLISATION HYDRAULIQUE DE LA RÉGION DU DELTA DES RIVIÈRES DE LA PAIX ET ATHABASCA
Sébastien Langlois, Université de Sherbrooke

GROUND SUBSIDENCE AND INFRASTRUCTURE MONITORING WITH THE HIGHEST RESOLUTION AND ACCURACY CURRENTLY AVAILABLE FROM SPACE-BASED SAR SYSTEMS
Valentin Poncos, Kepler Space Inc.

UNE NOUVELLE MÉTHODE DE DÉROULEMENT DE PHASE INTER-FÉROMÉTRIQUE BASÉE SUR UNE MINIMISATION DE L'ÉNERGIE À PARTIR D'UNE MODÉLISATION CONTEXTUELLE
Ayoub Tlili, Université de Montréal

USING RADARSAT-2 TO TARGET AREAS AT RISK OF CORROSION OF HYDRO-QUÉBEC'S PYLON'S FOUNDATIONS
Guy Aubé, Canadian Space Agency

K-SAR – A GROUND-BASED SAR SYSTEM FOR VERTICAL INFRASTRUCTURE STABILITY MONITORING AND SAR TOMOGRAPHY DEVELOPED BY KEPLER SPACE
Valentin Poncos, Kepler Space Inc.

SARSIM-3: A TOOL FOR ESTIMATING THE PERFORMANCE OF MULTI-APERTURE SYNTHETIC RADAR SYSTEMS
Ron Saper, Astrocom

DÉVELOPPEMENT D'UN MODULE D'INTRODUCTION À LA TÉLÉDÉTECTION - PROJET NORTHSENSE
Audrey Moffett, INRS-Eau Terre Environnement

SAR-EDU: TEACHING EARTH OBSERVATION IN AN ONLINE ENVIRONMENT
Christiane Schullius, Friedrich-Schiller-University

FUSING LIDAR AND RUNOFF TIME SERIES DATA TO MODEL FLOOD SCENARIOS IN THE HEADWATERS OF THE OLDMAN RIVER BASIN, ALBERTA
Chris Hopkinson, University of Lethbridge

APPORTS DES DONNÉES MULTISPECTRALES LANDSAT DANS UNE APPROCHE DE SUIVI DE DYNAMIQUE DES FORÊTS DANS LES CONCESSIONS FORESTIÈRES DES COMMUNAUTÉS LOCALES DU HAUT-KATANGA

Nsiami Mabilia Catherine, Université de Lubumbashi

RÉSILIENCE DES PEUPELEMENTS D'ÉPINETTE NOIRE FACE AUX SUCCESSIONS RAPPROCHÉES D'ÉPIDÉMIE D'INSECTE ET DE FEU

Maude Perrault-Hébert, Université de Montréal

LINKING SPACEBORNE AND GROUND OBSERVATIONS OF FALL FOLIAGE IN SOUTHERN QUÉBEC, CANADA

Offer Rozenstein, Institute of Soil, Water and Environmental Sciences

TOPOGRAPHY AND CANOPY COVER CHANGE IN THE ALPINE TREELINE ECOTONE: CENTURY-SCALE OBSERVATIONS

David McCaffrey, Department of Geography, University of Lethbridge

A CANADA-WIDE PRODUCT FOR STUDYING REGIONAL AND SEASONAL VARIATIONS IN BURN SEVERITY

Luc Guindon, Can

OBLIQUE PHOTOGRAPHY AND CANOPY COVER CLASSIFICATION IN THE ALPINE TREELINE ECOTONE

David McCaffrey, University of Lethbridge

INDIVIDUAL TREE CROWN HEIGHT ESTIMATION USING HIGH-RESOLUTION AIRBORNE HYPERSPECTRAL IMAGERY

Frank Zhang, Selkirk College

VOLUME PREDICTIONS FOR NATURAL VEGETATION AND EUCALYPTUS PLANTATIONS IN SAVANNA ECOSYSTEMS WITH FIELD OBSERVATIONS AND LANDSAT MULTITEMPORAL IMAGERY IN BRAZIL

Aliny Aparecida Dos Reis, Federal University of Lavras - UFLA

THE EFFECT OF DYNAMISM OF URBAN EXPANSIONS TO THE WATER RESOURCES OF MEKNÈS CITY. CONTRIBUTION MULTI SOURCE SPATIAL IMAGERY.

Soufyane Nasri, University Hassan II Casablanca

NOTES

Lined area for taking notes, consisting of multiple horizontal lines.

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