



**INDIGENOUS MAPPING
WORKSHOP**

2018
**INDIGENOUS
MAPPING
WORKSHOP**

AUGUST 20-23, 2018

MONTRÉAL, QUÉBEC

INDIGENOUSMAPS.COM

2018 INDIGENOUS MAPPING WORKSHOP

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INTRODUCTION

INDIGENOUS COMMUNITY MAPPING

The Firelight Group and its partners are proud to present the Indigenous Mapping Workshop, the largest international geospatial conference for Indigenous-led geospatial research. The Indigenous Mapping Workshop is an annual 4-day event that provides geospatial training and opportunities for Indigenous communities. During the workshop, over 200 participants from 100 Indigenous Nations learn and share geospatial tools and work flows to collect, host, visualize, share, and publish community-generated spatial data. Sessions explore current and relevant themes, such as traditional land use and occupancy studies, environmental monitoring, community planning, negotiations, health, inter-generational knowledge transfer, and reconciliation.

GEOSPATIAL CAPACITY BUILDING

CAPACITY BUILDING TO EMPOWERMENT

At the Indigenous Mapping Workshop, we support geospatial capacity building to promote Indigenous Peoples' ability to collect, analyze, and visualize community-based geospatial information. The Indigenous Mapping Workshop provides geospatial opportunities to bring culturally relevant and appropriate earth observation technologies to Indigenous communities to support Indigenous rights and interests. Our **Guiding Principles** are to:

- ✓ Promote international technical support and advisory services for Indigenous mapping projects and programs
- ✓ Facilitate capacity building and knowledge exchange between Indigenous leadership, agencies, and communities
- ✓ Support mapping projects to promote Indigenous rights and interests
- ✓ Encourage Indigenous communities to undertake geospatial capacity building initiatives
- ✓ Develop culturally appropriate and ethical geospatial outreach programs and curriculum
- ✓ Promote awareness of cartographic issues and resources



OUR MISSION

ROAD MAP: GEOSPATIAL CAPACITY BUILDING

The Indigenous Mapping Workshop is dedicated to the development and advancement of culturally appropriate and inclusive geospatial technologies for Indigenous communities. Our work focuses on the generation and dissemination of decolonized resources in Geographical Information Sciences and Satellite Remote Sensing, their integration and application, to preserve and promote Indigenous land stewardship practices.



VISION

To promote and encourage Indigenous self-determination and sovereignty by providing the necessary geospatial training, tools, and network opportunities to support Indigenous rights and interests. We are committed to supporting geospatial technologies and practices to ensure that Indigenous communities control the collection, analysis, and visualization of community-generated spatial data.



MANDATE

To provide direction and allocate resources in support of the enhancement of geospatial training and capacity building for Indigenous communities. We strategically partner with technology providers, Indigenous leadership, agencies and communities, universities, not-for-profits, and researchers to promote best practices for Indigenous geospatial programs and practices.



OBJECTIVE

To advocate for Indigenous pedagogical geospatial practices that support Indigenous capacity development in Geographical Information Sciences. We aim to enable and accelerate Indigenous innovations in geospatial technologies, supporting investment in geospatial programming that translate into the advancement of Indigenous rights and interests.

OUR HISTORY

MAPPING WITH INDIGENOUS COMMUNITIES

Since the inception of the Indigenous Mapping Workshop in 2014, the Indigenous Mapping Workshop remains a collaborative project. Our ability to promote and support Indigenous geospatial capacity building needs is a result of generous and involved organizations dedicated to promoting Indigenous rights and interests. As we adapt and expand to the geospatial needs of Indigenous communities, the Indigenous Mapping Workshop continues to provide a pertinent forum for Indigenous communities to exchange knowledge, experiences, and technologies in the geospatial field.

2014

VICTORIA, BC

The first Indigenous Mapping Workshop hosts over 100 mapping practitioners in Victoria, BC, co-hosted by The Firelight Group, Union of BC Indian Chiefs, Google, University of Victoria

2016

VANCOUVER, BC

The Firelight Group, Musqueam, Google, Esri Canada, Squamish Nation, Inlailawatash, and NALMA bring together 225 Indigenous mapping practitioners to Vancouver, BC

2017

WINNIPEG, MB

The Firelight Group, Brokenhead Ojibway Nation, Nanaandawewigamig, PEKE, Google, and Esri Canada welcome 250 Indigenous mappers to Winnipeg, MB

2015

WATERLOO, ON

The 2015 Indigenous Mapping Workshop, co-hosted by The Firelight Group, Google, and Chiefs of Ontario, brings together 150 Indigenous mapping practitioners to Waterloo, ON

2017

HAMILTON, NZ

The Firelight Group joins Digital Navigators Inc. to support the 4th annual Indigenous Mapping Waananga in Kirikiriroa, New Zealand, bringing together over 100 Māori community mappers

2018

MONTREAL, QC

Join us in Montreal, QC where we will host over 300 mapping practitioners at the largest international Indigenous geospatial training event

PARTNERSHIPS

Promote your organization as a leader committed to activities that benefit Indigenous communities. The 2018IMW is an opportunity for your organization to connect with the largest Indigenous Geospatial Network. The event promotes organizations, ensuring wide exposure for sponsors and their commitment to geospatial technologies and Indigenous communities.



DRONES

MAPS

NETWORKS

SPATIAL ANALYSIS

REMOTE SENSING

VIRTUAL REALITY

PARTICIPATORY

OPEN SOURCE

PLANNING

PAST WORKSHOPS

A GLANCE AT PAST EVENTS

Since 2014, the Indigenous Mapping Workshop has trained over 1000 Indigenous community mappers on emerging geospatial tools and technologies. With the dedication of our partners and sponsors, the Indigenous Mapping Workshop has become the largest global Indigenous geospatial network.



2018IMW

MONTREAL, QUEBEC | AUGUST 19-24, 2018

The 2018 Indigenous Mapping Workshop will host over 300 participants from August 19-24, 2018 in Montreal, Quebec. The four-day workshop will involve a dynamic mix of presentations by community members, leading experts, academics, and students, hands-on geospatial training to support Indigenous rights and interests, and knowledge exchanges between communities.

2018 INDIGENOUS MAPPING WORKSHOP

Le Westin
270 Rue St. Antoine Ouest
Montreal, QC H2Y 0A3, Canada

01

Geospatial Training

Train Indigenous communities to use accessible geospatial technologies to support various needs and circumstances

02

Empowerment

Build knowledge and develop specialized resources in Indigenous communities to support rights and interests

03

Community

Work towards creating knowledge exchanges between Indigenous communities, organizations, and governments



2018
IMW
AGENDA



MONDAY

20.08.2018

DAY 1

07:30 - 08:30
Grande Place, 8th Floor

Breakfast

07:30 - 08:30
Grande Place, 8th Floor

Registration

08:30 - 8:45
Montréal, 11th Floor

Opening Prayer

08:45 - 09:00
Montréal, 11th Floor

2018 Indigenous Mapping Workshop: Welcome

09:00 - 09:30
Montréal, 11th Floor

Government to Government Tribal Consultation
Speaker: Angela D. Garcia-Lewis, Salt River Pima-Maricopa Indian Community

Successful tribal cultural resource consultation is vital concern for many Native American tribes in the United States. The Salt River Pima-Maricopa Indian Community has been working on several strategies for preserving the landscape and the natural and cultural resources associated with their people. This presentation will discuss the reasoning for developing an online Arizona Government to Government Tribal Consultation Toolkit, as well as other strategies for preservation.

09:30 - 10:00
Montréal, 11th Floor

Mapping the Displacement of 60’s Scoop Survivors
Speakers: Colleen Hele-Cardinal, National Indigenous Survivors of Child Welfare Network and Dale Spencer, Carleton University

The National Indigenous Survivors of Child Welfare Network ‘theNetwork’ has collaborated with the Dr. Raven Sinclair’s (University of Regina) Pe-kīwēwin Project (Social Science and Humanities Research Council Insight Grant – 5 year) to create a GIS (Geographic Information System) Adoptee Diaspora Mapping program to create an innovative and interactive online platform to support 60’s scoop survivors to share their stories, visualize collective displacements, collect data on where survivors were taken from and displaced too, find family members, and identify resources in different territories. The mapping project is participatory and interactive, with survivors inputting their own information. Visually, the Diaspora Mapping will be stunning and will show Adoptee displacement globally. It will also give researchers preliminary data on how many children were taken and where too.

DAY 1

10:00 - 10:30
Grande Place, 8th Floor

Health Break

10:30 - 11:15
Montréal, 11th Floor

Panel: Indigenous Environmental Monitoring with Land and Water Defenders

The Indigenous Environmental Monitoring: Land and Water Defenders panel will present Indigenous community led actions against extractive industries, unwanted development, and climate change.

11:15 - 12:00
Montréal, 11th Floor

Panel: Methods, Theory, and Action for Indigenous Counter-Mapping

The Indigenous Counter-Mapping: Methods, Theory, and Action panel will discuss different approaches Indigenous nations us geospatial technologies to promote sovereignty and self-determination.

12:00 - 13:00
Grande Place, 8th Floor

Lunch

13:00 - 14:30

Training Modules

Ramezay, 8th Floor

Put Your Community on the Map with ArcGIS Online
Trainer: Susie Saliola, Esri Canada

Connect community, location, and information using ArcGIS Online. ArcGIS Online is a collaborative Web GIS that allows you to create and share interactive maps and apps. You can explore the free, ready-made data that you can add to your maps, or learn to add your own content to a map such as significant locations in your community, food harvesting areas, potential development sites, and more. Most of the Esri’s Web tools, including Survey123, Collector, Story Maps, and Web AppBuilder, are all integrated with ArcGIS Online. Come to this session to get an introduction to ArcGIS Online or to learn some new tips and tricks!

Viger, 8th Floor

Become an ArcGIS Pro
Trainer: Jonathan Van Dusen, Esri Canada

Create high-quality maps on your computer using ArcGIS Pro, Esri’s premier desktop GIS application (provided freely to you through the IMW ArcGIS Online Organization). You’ll learn how to discover and save different sources of map data, and use analysis tools to create state-of-the-art, printable maps that you can share in meetings or publications. This is a great opportunity to learn the same mapping application used widely in industry, academic research, and the public sector.



MONDAY

20.08.2018

DAY 1

Palais, 8th Floor	Building a Collaborative Map with your Team using Google My Maps and My Maps Mobile (Basics) Trainer: Dr. Cynthia Annett, Kansas State University and University of Alaska
	This session will cover how to create quick and easy maps with My Maps, a simple tool for creating interactive and collaborative maps on the web. You'll also learn how to continue working on your maps with your mobile device, both online and offline. You can choose to share your map with your field team only or to the public or even embed it on your website.
Beaver Hall, 8th Floor	A Google Mapping Warm Up: Quick My Maps and Easy Tour Builder Stories (Accelerated) Trainers: Raleigh Seamster, Google Earth Outreach and Moka Apiti, Digital Navigators Ltd.
	This session will cover tools for easy content creation & storytelling. You'll learn how to tell engaging stories about places of cultural and environmental importance using Tour Builder and by using virtual flyovers and tours in Google Earth. You'll also learn how to use My Maps, a simple tool for creating interactive and embeddable maps on the web. This session will provide a starting point for people who may not be familiar with Google mapping tools but have some mapping experience, that will allow them to enter the Google stream at an accelerated pace.
Ste-Hélène, 8th Floor	Navigating the World of Open Source and Open Data Mapping Tools Trainers: Marena Brinkhurst, Mapbox and Julia Conzon, Employment and Social Development Canada, and Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy
	The world of mapping tools is big - and when using open source tools and open data, it's not always easy to see how all the different tools can fit together to meet your needs. Come discuss your projects with our open source and open data trainers to learn more about what tools could be useful and how they fit together. We'll provide overview presentations about OpenStreetMap, Mapbox, QGIS, Mapeo, ODK, and more. Then we'll break out into discussion tables for you to share and get feedback on your use cases and help you to plan which sessions to check out over the rest of the workshop.
St. Paul, 8th Floor	MappingBack: Designing Alternative Indigenous Maps Trainers: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University
	During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories,

DAY 1

	stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.
McGill, 8th floor	Ideation Process, Identifying Problems RightMesh Can Solve Trainers: Daniel Gillis, University of Guelph and Inez Shiwak, the 'My Word': Storytelling and Digital Media Lab
	Learn about the eNuk application and how it sprung from the community needs within Rigolet. Next, we will discuss how to identify problems within their own communities and workshop potential solution, be it through RightMesh, or alternative means.
Montréal, 11th Floor	Open Data Sources and Portals in QGIS: Finding, Downloading and Understanding Data Trainers: Lauren Tekano and Boyd Barrett, The Firelight Group
	This session will cover the basics of QGIS, and how it differs from other geospatial softwares. We will discuss how to access, download and interpret open data sources in QGIS. We will also learn how to add layers to QGIS, explore the GUI, discuss some useful QGIS plugins, and add and use basemaps.
14:30 - 15:00 Grande Place, 8th Floor	Health Break
15:00 - 16:30	Training Modules
Ramezay, 8th Floor	This was My Family's Cabin: Share Community Knowledge with Esri Story Maps Trainer: Jeff Hackett, The Firelight Group
	If a map could tell a story, what would it say? Esri Story Maps allows you to combine maps, text, videos, sound, and photos into a narrative. You can share results of a community project, showcase traditional knowledge and oral histories, and many more types of stories. A story map is an excellent way to engage and communicate with your community, administrators, and Band decision makers. Learn how to build your own Story Maps in this session.



MONDAY

20.08.2018

DAY 1

Viger, 8th Floor

Create and Use Interactive Surveys. It's as Easy as 'Survey123'

Trainer: Steve DeRoy, The Firelight Group

When you need a way to ask questions of community members, collect answers, and make use this information to inform decisions, Survey123 is the tool for you. The app is designed for people without GIS expertise to create and distribute interactive surveys just nothing more than a Web browser. With Survey123 you can also track the status of projects, perform resource inventories, and other applications. Learn how to create your own surveys, gather information, and watch as the results are updated on a Web map in ArcGIS Online.

Palais, 8th Floor

Community Surveys with G Suite and My Maps (Basics)

Trainer: Dr. Cynthia Annett, Kansas State University and University of Alaska

Looking for a set of tools to improve communication with your community? In this session, we will explore ways to use Google Forms to create surveys that can be sent through email or embedded in your website. Survey responses are automatically sent to an online spreadsheet and can be mapped using My Maps. You can efficiently manage the entire project (your survey form, response data and maps) using Google Drive, which uses passwords to protect your data and allows you to collaborate with colleagues.

Beaver Hall, 8th Floor

Imagery from Space to Sky to Ground

Trainers: Raleigh Seamster, Google Earth Outreach and Moka Apiti, Digital Navigators Ltd.

Google Maps & Earth make a vast amount of imagery freely available to the public. In this session, you will get an overview of the tools and processes available for updating and adding to the satellite imagery in Google Earth and Maps. You'll also learn how to collect your own 360-degree Street View imagery to include these virtual panoramas in your own maps and stories. Lastly, we'll explore emerging techniques for collecting your own imagery with drones.

Ste-Hélène, 8th Floor

Ooh, Colours! Make Custom Styled Maps in Mapbox Studio

Trainers: Marena Brinkhurst, Mapbox and Julia Conzon, Employment and Social Development Canada, and Aliya Ryan, Digital Democracy

Create a free Mapbox Studio account and work through a hands-on exercise to make a custom styled map. Learn about how to change the look of your map by changing colours, labels, and layers. We'll upload a dataset (extracted from OpenStreetMap, iNaturalist, or Mapeo) and learn how to edit and style the new data layer. We'll also go through how to add custom icons. Everyone will complete a custom map style that you can share and use in other projects!

DAY 1

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainer: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories, stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.



TUESDAY

21.08.2018

DAY 2

07:30 - 08:30
Grande Place, 8th Floor

Breakfast

08:30 - 8:45
Montréal, 11th Floor

Opening Prayer

08:45 - 09:00
Montréal, 11th Floor

Daily Overview

09:00 - 09:30
Montréal, 11th Floor

MappingBack: (Re)Mapping Indigenous Counter-Maps through Alternative Design
Speakers: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

Territory is the central field of engagement between First Nations and the state and corporate actors that organize resource extraction projects. The territories in play, however, are not singular. They have multiple dimensions whose shape and significance vary enormously and indeed, are often in opposition. For Indigenous peoples these are homelands, spaces of living relations. For states and capitals, they are coded as unproductive wastelands whose only possible path to development depends on the extraction of their resources. Given the centrality of territory in resource conflicts it is of little surprise that cartography is one of the privileged representational technologies in play.

09:30 - 10:00
Montréal, 11th Floor

Inspired by the Amazon: Co-Development of Tools and Methods for Community Mapping and Monitoring
Speakers: Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy

Community mapping and monitoring programmes often arise out of local decisions to document what is happening on the land and in one's territory. Recent technological advances have increased the number of tools available to help these processes, however how can communities find the best ones for their particular needs, and remain in control of the data collected? Digital Democracy has been partnering with indigenous communities in the Amazon Basin for five years, providing support to navigate through the range of tools available and developing open source tools that are accessible, customisable, work fully in offline environments and facilitate team collaboration and local autonomy. We will discuss the Waorani of Ecuador's detailed ethnocartography of a million hectares of ancestral territory, the monitoring of illegal gold mining and land invasions in Wapichan territory in Guyana and the Achuar peoples' mapping and monitoring of the impacts of decades of oil extraction activities in Northern Peru. We will share how we have used OpenDataKit, QGIS, Mapbox, and the new open-source Mapeo Platform for collecting, managing, and publishing mapping and monitoring data.

DAY 2

10:00 - 10:30
Grande Place, 8th Floor

Health Break

10:30 - 11:15
Montréal, 11th Floor

Panel: Mapping the Future: Open Data, Drones, and Internet of Things

The Mapping the Future: Open Data, Drones, and Internet of Things panel discusses how new technologies are supporting Indigenous cartography.

11:15 - 12:00
Montréal, 11th Floor

Panel: Indigenous Cartography as Inter-Generational Knowledge Transfer

The Indigenous Cartography as Inter-Generational Knowledge Transfer panel discusses how geospatial technologies are used to promote knowledge exchange and storytelling.

12:00 - 13:00
Grande Place, 8th Floor

Lunch

13:00 - 14:30

Training Modules

Ramezay, 8th Floor

Put Your Community on the Map with ArcGIS Online
Trainer: Susie Saliola, Esri Canada

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Viger, 8th Floor

Become an ArcGIS Pro
Trainer: Jonathan Van Dusen, Esri Canada

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TUESDAY

21.08.2018

DAY 2

Palais, 8th Floor	Create and Share Stories About our World using Google Tour Builder (Basics) Trainer: Dr. Cynthia Annett, Kansas State University and University of Alaska This session will cover how to tell engaging stories about places of cultural and environmental importance that you can easily share online. Tour Builder can also be used as an engaging presentation tool, whether your audience is your community, school children, or an official meeting.
Beaver Hall, 8th Floor	Mashing up Datasets with Google Earth Pro (Accelerated) Trainers: Moka Apiti, Digital Navigators Ltd. and Guy Polden, The Firelight Group In this session participants will learn how to bring different types of datasets into Google Earth Pro which will help in understanding your community, such as historical maps, GIS shapefiles, and GPS data.
Ste-Hélène, 8th Floor	QGIS as a Data Processing Tool Trainer: Vincent Sarago, Mapbox Learn how to use QGIS to visualize, process and create dataset. QGIS (formerly known as Quantum GIS) is a popular open-source GIS with advanced capabilities (e.g custom scripts in python, R ...). In this workshop, we will guide you through some QGIS basic and advanced features to make a dataset reveal its information and prepare datasets for use in other tools, like Mapbox Studio.
St. Paul, 8th Floor	MappingBack: Designing Alternative Indigenous Maps Trainer: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories, stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.

DAY 2

McGill, 8th Floor	Offline, Collaborative Monitoring with Mapeo Mobile Trainers: Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy In this session, we will introduce the main features of Mapeo Mobile, a new, free, open-source mobile app for collaboratively gathering monitoring and mapping data. It is easy to use and is built around community-led processes and local data management. Mapeo Mobile works fully in offline, remote environments, but should also work in central Montreal! (Note: Mapeo Mobile is only available for Android devices - but we'll have some loaner devices if you use an iPhone.) We will get everyone set up with Mapeo Mobile and do some data collection together outside, taking GPS points, photos and notes about things you observe. We will then come back together to discuss what you can do with the data once you've collected it; how to collaborate with others on your team; how the app can be customised to your communities' particular needs for data collection; and how it can integrate with other tools you might already be using. We will also share some of the upcoming new features for the app which are in development and learn from you about what would be most useful for your uses, and what challenges you have with current tools. Join us to learn more about how to manage, edit and publish the data in our second session: Managing Monitoring Data with Mapeo Desktop.
14:30 - 15:00 Grande Place, 8th Floor	Health Break
15:00 - 16:30	Training Modules
Ramezay, 8th Floor	Create and Use Interactive Surveys. It's as Easy as 'Survey123' Trainer: Steve DeRoy, The Firelight Group When you need a way to ask questions of community members, collect answers, and make use this information to inform decisions, Survey123 is the tool for you. The app is designed for people without GIS expertise to create and distribute interactive surveys just nothing more than a Web browser. With Survey123 you can also track the status of projects, perform resource inventories, and other applications. Learn how to create your own surveys, gather information, and watch as the results are updated on a Web map in ArcGIS Online.



TUESDAY

21.08.2018

DAY 2

Viger, 8th Floor

Collect Field Data with the Collector for ArcGIS Mobile App

Trainer: Jonathan Van Dusen, Esri Canada

Use the GPS in your smartphone or tablet to map locational data collected with Collector, one of Esri's most popular mobile apps. You'll learn how to create map layers to store points, lines, or areas, and then add these to a map that you can edit on your device. You'll also learn how to add descriptions and photos to the locations you collect. Collector connects to a mobile network or Wi-Fi, or works completely offline when no network connection is available, making it incredibly useful in remote areas where there is no wireless or mobile service.

Palais, 8th Floor

Create VR tours with Tour Creator

Trainer: Courtney Hampson, Google AR & VR

Learn how to use 360 cameras and Street View imagery to build immersive 360 degree tours with Google's Tour Creator. Once you create your tour, you can publish it to the web for people to see on their phone, computer, or in a VR viewer.

Beaver Hall, 8th Floor

Direct to Digital Mapping with Google Earth Pro (Accelerated)

Trainer: Moka Apiti, Digital Navigators Ltd. and Guy Polden, The Firelight Group

In this session, we'll start with a quick overview of the Direct-to-Digital method using Google Earth Pro. Then we'll focus on the challenge of maintaining data collected during field interviews and demonstrate methods in ArcGIS for designing and managing data tables linked to a Google Earth KML. Finally, we'll discuss methods of sharing your map with others.

Ste-Hélène, 8th Floor

OpenStreetMap - A Free, Collaborative Map for Everyone!

Trainers: Marena Brinkhurst, Mapbox and Julia Conzon, Employment and Social Development Canada, and Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy

Learn about OpenStreetMap and the global community that creates and maintains it, and how you can be involved. You'll create an account with OpenStreetMap and learn how to start adding to the map using iD Editor. We'll cover how to create all the basic feature types and we will practice examples of adding roads, buildings, and points of interests (like schools, stores etc.). If we have time we can help you start doing some real mapping in your communities. We'll also discuss ways to extract and use data once it is in OSM. Make sure your community is on the map!

DAY 2

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainer: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-Indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories, stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.

McGill, 8th Floor

Ideation Process, Identifying Problems RightMesh Can Solve

Trainers: Daniel Gillis, University of Guelph, Inez Shiwak, the 'My Word': Storytelling and Digital Media Lab

Learn about the eNuk application and how it sprung from the community needs within Rigolet. Next, we will discuss how to identify problems within their own communities and workshop potential solution, be it through RightMesh, or alternative means.

Montréal, 11th Floor

Making a Map in QGIS (I): Basic Analysis, Styling and Labeling

Trainers: Lauren Tekano and Boyd Barrett, The Firelight Group

In this session, we will introduce and explore some important spatial analysis tools that you will likely encounter when working on a project. We will also learn how to apply symbology and labels to your maps in order to convey your message and tell your story.

18:00 - 20:00

Fortifications, 9th Floor

Welcome Feast

Join us for dinner at the Welcome Feast with dancing, drummers, and singers.



WEDNESDAY

22.08.2018

DAY 3

07:30 - 08:30

Grande Place, 8th Floor

Breakfast

08:30 - 8:45

Montréal, 11th Floor

Opening Prayer

08:45 - 09:00

Montréal, 11th Floor

Daily Overview

09:00 - 09:30

Montréal, 11th Floor

eNuk: Using Mesh Technology to Support Climate Change Monitoring

Speakers: Daniel Gillis, University of Guelph and Inez Shiwak, 'My Word': Storytelling and Digital Media Lab

The eNuk Program is an integrated environment and health monitoring program designed by, with, and for Inuit in Rigolet, Nunatsiavut Labrador. Building on the community's collective history, knowledge, and experience with monitoring, the goal of the eNuk Program is to streamline and incorporate the community's existing research efforts into a comprehensive strategy for monitoring and responding to environmental and health indicators of climate change. Monitoring environment- and health-related observations will help Inuit adapt to and plan for current and future changes. For example, environmental conditions are changing so rapidly in and around Rigolet that certain paths known to be safe in the past may now present unexpected dangers. In response, community members are actively finding ways to track changes in the environment and share timely, accurate information with each other regarding when and where it is safe to travel on the land. The eNuk Program will support these existing efforts to track and respond to environmental changes, and through the ongoing collection of environmental information will also help improve the understanding of, and preparation for, future climate and environmental changes in Rigolet in ways that also enhance and promote Inuit health.

09:30 - 10:00

Montréal, 11th Floor

Mapping Eeyou Istchee: The Cree Nation Government's Place Name Program

Speaker: John Bishop, Cree Nation Government

The Crees of Northern Quebec are lucky in that they have benefitted from over 40 years of intermittent, but often intensive, place name research. Because of this work, the Cree Nation Government's Place Names PostGIS database today has well over 14,000 Cree-language place names and is continuing to grow. This presentation will provide a brief overview of this history, and then discuss the challenges that confronted the Cree Nation Government when they renewed their place names program in 2013. In particular, the presentation will focus on the choices made in order to integrate a large body of already existing research, and the choices relating to the development of the lexical components of the place-names database.

DAY 3

10:00 - 10:30

Grande Place, 8th Floor

Health Break

10:30 - 11:15

Montréal, 11th Floor

Panel: Alternative Indigenous Cartography Through Arts-Based Theory and Methods

The Alternative Indigenous Cartographers: Arts-Based Theory and Methods panel will discuss new ways of thinking and doing cartography. The systematic use of the artistic process, whether through drawing, painting, augmented reality, as a primary way of understanding and examining community-based spatial experiences through collective and collaborative arts-based theory and methods.

11:15 - 11:45

Montréal, 11th Floor

Indigenous Vision Interactive mAPP

Speakers: Souta Calling Last and Tyler Walls, Indigenous Vision

The Indigenous Vision Interactive Map and App is centered on empowering the Indigenous identity through virtual reclamation of traditional territories and asserting the Indigenous right and benefit of environmental stewardship. The resource will empower leaders, community members, and activists with a tool grounded in Tribal Ecological Knowledge (TEK) and reinforced by western science. The virtual reclamation of our landscape narrative will be achieved through the science of Indigenous geography and map making technology that includes virtual reality experiences. TEK explains characteristics of the landscape and eyewitness accounts of climate change marking the coming and going of various species. The Interactive Map and App is a revolutionary networking resource and educational tool that provides a platform to learn about history, culture, environmental science and efforts of protection. The project will allow for a large support network of native and non-native alike to educate and assist in the protection of land and water. Mapping layers focus on the risks and challenges to Indigenous stewardship and the close proximity of damaging industries and expansion of modern development.

11:45 - 13:00

Grande Place, 8th Floor

Lunch: Birds of a Feather: Geospatial Networking Luncheon

Birds of a Feather: Geospatial Networking Sessions is an informal gatherings of like-minded individuals who wish to discuss a certain topic without a pre-planned agenda. Birds of a Feather allow groups to meet and discuss issues relating to regular conference sessions and talk out common problems facing the community. The session provides participants with an inclusive, information environment to share ideas freely. Grab your lunch and meet someone new. Learn, share, and explore!



WEDNESDAY

22.08.2018

DAY 3

13:00 - 14:30

Training Modules

Ramezay, 8th Floor

Find Patterns and Make Decisions with ArcGIS Online

Trainer: Susie Saliola, Esri Canada

If you need to do more than place points on a map, ArcGIS Online's easy-to-use and powerful analysis tools allow you to answer questions and make important decisions that go beyond simply recording spatial data. These tasks are especially useful for many aspects of land management and for visualizing data. Learn how your map produced from some straightforward spatial analysis can answer questions such as what is the best location for a new community building? What are the possible environmental impacts associated with a project? What are the potential impacts of development on nearby significant sites?

Viger, 8th Floor

This was My Family's Cabin: Share Community Knowledge with Esri Story Maps

Trainer: Jeff Hackett, The Firelight Group

If a map could tell a story, what would it say? Esri Story Maps allows you to combine maps, text, videos, sound, and photos into a narrative. You can share results of a community project, showcase traditional knowledge and oral histories, and many more types of stories. A story map is an excellent way to engage and communicate with your community, administrators, and Band decision makers. Learn how to build your own Story Maps in this session.

Palais, 8th Floor

Direct to Digital Mapping with Google Earth Pro (Basic)

Trainer: Raleigh Seamster, Google Earth Outreach and Steve DeRoy, The Firelight Group

Learn how to use Google Earth to map places of cultural and environmental importance discussed during a field interview. We'll cover the basics of how to create all the feature types – points, lines, and polygons – for mapping Indigenous knowledge and traditional land use using the Direct-to-Digital method. You'll also learn how to add further detail to mapped sites using text and images. Finally, we'll discuss methods of sharing your map with others.

Beaver Hall, 8th Floor

Presentation & Animation Techniques for Your Maps (Accelerated)

Trainer: Moka Apiti, Digital Navigators Ltd.

This session will share presentation & animation techniques to explore lands and maps in an engaging way. You will learn how to use Google Earth Pro to build virtual flyovers and tours to guide your audience through the landscape you're discussing. You'll look at Tour Builder as an alternative presentation tool to Google Earth Pro.

DAY 3

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainer: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-Indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories, stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.

Ste-Hélène, 8th Floor

Managing Monitoring Data with Mapeo Desktop

Trainers: Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy

In this session, we will introduce the main features of Mapeo Desktop, a tool for managing mapping and monitoring data. Mapeo Desktop facilitates teams to collaborate on data collection, keeps all your data private, locally owned and managed, and works fully in offline environments. You do not need internet to transfer data from Mapeo Mobile to Mapeo Desktop.

You will learn how to import data from Mapeo Mobile; how to visualise, edit and filter the data and how to create a report showing a selection of your findings including photos, GPS points and text. You will also learn how to use Mapeo Desktop's features in conjunction with tools, such as a GPS or with ODK. We will finally look at how to export the data from Mapeo Desktop to a geojson or excel file, for you to use with other programmes.

McGill, 8th Floor

Open Maps: A Public Platform to Search, Discover, and Visualize Governmental Geospatial Data

Trainers: Josée-Anne Langlois and Sonia Trentin, Natural Resources Canada

This training module will give participants a better understanding of the tools and geospatial datasets available on the Government of Canada's Open Maps website. Through a use case, participants will search for data, visualize them on the Open Maps viewer and add geospatial data from an external source in order to address a specific issue.

14:30 - 15:00

Grande Place, 8th Floor

Health Break

15:00 - 16:30

Training Modules



WEDNESDAY

22.08.2018

DAY 3

Ramezay, 8th Floor

No Coding, No Worries! Create a Web App for Processing Land Referrals

Trainer: Susie Saliola, Esri Canada

Create consistency and efficiency when responding to land referrals by developing a Web app customized for your community, all without writing a single line of code. Web AppBuilder for ArcGIS is user-friendly, flexible, and full of GIS functionality. Built into ArcGIS Online, it allows you to use your own maps and data to keep track of land referrals, overlay project footprints with significant sites, and assess the potential impact on your community according to criteria that you decide are important.

Viger, 8th Floor

Automate it! Simplify Time-Consuming tasks with ModelBuilder and Python in ArcGIS Pro

Trainer: Jonathan Van Dusen, Esri Canada

Trim down the time required to do repetitive tasks by learning how to use the drag-and-drop ModelBuilder tool in ArcGIS Pro. You can use this to automate workflows, repeat them, and run them again later, without writing a line of code. You'll also learn how to take this further and use the Python programming language with ArcGIS Pro, which is useful for creating entirely custom workflows.

Palais, 8th Floor

Mashing up datasets with Google Earth Pro (Basic)

Trainers: Raleigh Seamster, Google Earth Outreach and Dr. Cynthia Annett, Kansas State University and University of Alaska

In this session, participants will learn how to bring different types of datasets into Google Earth Pro which will help in understanding your community, such as historical maps, GIS shapefiles, and GPS data.

Beaver Hall, 8th Floor

Create VR tours with Tour Creator

Trainer: Courtney Hampson, Google AR & VR

Learn how to use 360 cameras and Street View imagery to build immersive 360 degree tours with Google's Tour Creator. Once you create your tour, you can publish it to the web for people to see on their phone, computer, or in a VR viewer.

Ste-Hélène, 8th Floor

Coding is Cool! Make Interactive Web Maps with Mapbox (II)

Trainer: Marena Brinkhurst, Mapbox

Learn about how to make interactive web maps and why you might want to use them. We'll set up

DAY 3

account with Mapbox and Github and then create a simple web page using Github and edit some Javascript code in Sublime Text to create a simple web map using Mapbox GL JS (a Javascript library) and styles from Mapbox Studio. We'll work through adding various front-end elements (like a title and legend) and interactive elements like pop-up textboxes and a basemap toggle. We'll work with a wildlife reporting dataset from iNaturalist. The goal is to complete a live web map online that you can share! We'll also show you how to find more learning resources and other tutorials to expand your web map skills.

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainer: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

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McGill, 8th Floor

Next-Level OSM Editing with JOSM

Trainer: Julia Conzon, Employment and Social Development Canada

Learn about JOSM, a graphical user interface for leveraging OSM data. JOSM allows the user to use existing OSM data, as well as add new OSM data, without directly uploading the data into the public/open OSM database. In this session you'll install JOSM and learn how to import OSM data, manipulate the OSM data (e.g., add your own data, edit existing data), and then export the data for local use. We'll cover how to create all the basic feature types and we will practice examples of adding roads, buildings, and points of interests using JOSM's add-on tools.

18:00-20:00

Geographic Information Centre, McGill University, 5th Floor, Burnside Hall

Mapathon: Mappers Unite!

The Mapathon is hosted in conjunction with the Indigenous Mapping Workshop and McGill's Geographic Information Centre. The Mapathon is collaborative after-hours session between communities, researchers, and technology companies to build publicly accessible databases of valuable information of our communities and cities. The Mapathon will give participants the experience to learn and share about crowdsourced public knowledge via OpenStreetMaps. The Mapathon is a great opportunity for people to connect, share, and learn about open geospatial data.



THURSDAY

23.08.2018

DAY 4

07:30 - 08:30
Grande Place, 8th Floor

Breakfast

08:30 - 8:45
Montréal, 11th Floor

Opening Prayer

08:45 - 09:00
Montréal, 11th Floor

Daily Overview

09:00 - 09:30
Montréal, 11th Floor

From Defense to Territorial Development: Santa Catarina Lxtahuacán Case Study
Speaker: Edgar Selvin Pérez, San Carlos University

Access to land in Guatemala currently reflects one of the most unequal (Gini: 0.559) countries in the world (UNDP, 2005). Access to land in the seventeenth and nineteenth centuries was an indicator of wealth and exclusion that marked the great differences between rich and poor. Today, this gap is becoming increasingly wide, with severe consequences in terms of the possibilities for a sustainable development. This review tries to explain from a case study, how some communities of indigenous peoples even having access to land could not develop as societies because they were historically excluded from state policies, markets and development possibilities. Poverty and underdevelopment can be two inter-related variables that could be caused by: the action of the State and its development policies, the intentional exclusion from political action, discrimination and the usurpation of lands managed by indigenous peoples and local communities.

09:30 - 10:00
Montréal, 11th Floor

Constraints and Opportunities of Diffusing GIS Technology Throughout your Organization: A Case Example of the Mohawk Council of Kahnawake
Speaker: Bradford Dean, Mohawk Council of Kahnawake

Operating within the framework's visions outlined in the 2017/2018-2021/2022 Strategic Plan and the GIS strategic plan of 2013, our mandate is to deploy GIS as a service that will enable access to data and information, improve work processes, promote innovative solutions and help serve and support identity and prosperity of our community. Based on our experience of deploying GIS to our organization this presentation will highlight both the constraints and opportunities of introducing GIS technology to our work flows and the opportunities that were encountered from the unique collaboration between back end IT personnel and GIS administrators. The IT/GIS architecture's foundation enabled an unexpected flourishing of content arising from units and from front end users representing diverse interests in government, academia, industry and traditional ecological knowledge. This goal of this presentation is to provide a rough framework and inspiration to help guide a successful integration of GIS architecture into your organization.

DAY 4

10:00 - 10:30
Grande Place, 8th Floor

Health Break

10:30 - 11:15
Montréal, 11th Floor

Panel: The Role of Geospatial Technologies in Land Referrals

The Role of Geospatial Technologies in Land Referrals panel will discuss various geospatial technologies used to support land referrals within the context of resource development.

11:15 - 12:00
Montréal, 11th Floor

Panel: Recognizing Indigenous Rights Through Land-Use Planning

The recognition of Indigenous Rights Through Land-Use Planning panel will discuss how land-use planning has become a powerful approach for Indigenous communities to promote sovereignty and self-determination over traditional territory and resources.

12:00 - 13:00
Grande Place, 8th Floor

Lunch

13:00 - 14:30

Training Modules

Ramezay, 8th Floor

Empower Youth and Enrich Student Learning with GIS in your Community's Schools
Trainer: Susie Saliola, Esri Canada

Use the skills you've learned this week to engage the youth in your community's school(s). ArcGIS Online, ArcGIS Pro, Survey123, Story Maps, Collector, and more, are freely available for use in K-12 education. See examples of how educators and students have been using GIS for land-based learning and to preserve and record culture and traditional knowledge. Learn what you can do to support your local students and to help to create opportunities for technical skills development in your community.

Viger, 8th Floor

Use Direct-to-Digital Esri (D2De) Data Collection in ArcGIS Pro
Trainer: Jonathan Van Dusen, Esri Canada, Jeff Hackett, The Firelight Group

Build collections of quickly generated data for your community using Firelight's D2D method adapted for use in ArcGIS Pro. You'll learn how to use the new ArcGIS Pro D2De tool to draw points, lines, and areas on-screen and add information about each location. You'll also learn how to anonymize the locations you collect and how to share these locations in printed maps or ArcGIS Online maps. This is a great way to collect data directly on your device, without needing a printed map, and to collect it on your own or with other community members.



THURSDAY

23.08.2018

DAY 4

Palais, 8th Floor

Presentation & Animation Techniques for Your Maps (Basic)

Trainer: Moka Apiti, Digital Navigators Ltd.

This session will share presentation & animation techniques to explore lands and maps in an engaging way. You will learn how to use Google Earth Pro to build virtual flyovers and tours to guide your audience through the landscape you're discussing. You'll look at Tour Builder as an alternative presentation tool to Google Earth Pro and you will learn how to use the satellite images in Google Earth Engine's Timelapse to show your audience change over time in the areas you care about.

Beaver Hall, 8th Floor

Field Surveys & Data Collection with Open Data Kit (Accelerated)

Trainer: Raleigh Seamster, Google Earth Outreach

This session will cover how to collect Traditional Ecological Knowledge and other information while offline in the field and sync it to a map, using Android mobile devices and Open Data Kit, an open source platform. Participants will learn how to collect, host and view information in a spreadsheet and on a map. You'll also learn to build and deploy the survey forms, that can include questions, GPS readings, photos, audio and more.

Ste-Hélène, 8th Floor

Coding is Cool! Make Interactive Web Maps with Mapbox GL JS

Trainer: Marena Brinkhurst, Mapbox, Gregor MacLennan, Digital Democracy, and Julia Conzon, Employment and Social Development Canada

Learn about how to make interactive web maps and why you might want to use them. We'll set up account with Mapbox and Github and then create a simple web page using Github and edit some Javascript code in Sublime Text to create a simple web map using Mapbox GL JS (a Javascript library) and styles from Mapbox Studio. We'll work through adding various front-end elements (like a title and legend) and interactive elements like pop-up textboxes and a basemap toggle. We'll work with a wildlife reporting dataset from iNaturalist. The goal is to complete a live web map online that you can share! We'll also show you how to find more learning resources and other tutorials to expand your web map skills. (Beginners welcome - it's okay if you've never worked with code before. If you have used Javascript, come learn about how to use it with Mapbox maps!).

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainers: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories,

DAY 4

McGill, 8th Floor

Making a Map in QGIS (II): Using Managing Print Composer

Trainers: Lauren Tekano and Boyd Barrett, The Firelight Group

In this final QGIS session, we will continue to make our maps by using the QGIS Managing Print Composer. We will learn how to properly format a map, and add standard map elements, while also getting creative and allowing your map to tell your story.

14:30 - 15:00

Grande Place, 8th Floor

Health Break

15:00 - 16:30

Training Modules

Ramezay, 8th Floor

Track Land-Use Changes in Your Community Over Time

Trainers: Jonathan Van Dusen, Esri Canada and James Villeneuve, Deimos Imaging, an UrtheCast Company

Satellite imagery allows you to view changes in land cover and land use in your community, such as deforestation, resource extraction, and urbanization. Without needing to download any software, you'll learn how to find and analyze free satellite imagery, and how to compare images to view changes in the landscape over time. You'll also learn how to save imagery layers to your ArcGIS Online account so that you can share your findings with your community, such as by creating Story Maps. Finally, you'll learn how to use a Kanvas Origin portal from Deimos Imaging, an UrtheCast company, to view and analyze imagery for a particular community.

Viger, 8th Floor

No Coding, No Worries! Create a Web App for Processing Land Referrals

Trainer: Susie Saliola, Esri Canada

Create consistency and efficiency when responding to land referrals by developing a Web app customized for your community, all without writing a single line of code. Web AppBuilder for ArcGIS is user-friendly, flexible, and full of GIS functionality. Built into ArcGIS Online, it allows you to use your own maps and data to keep track of land referrals, overlay project footprints with significant sites, and assess the potential impact on your community according to criteria that you decide are important.



THURSDAY

23.08.2018

DAY 4

Palais, 8th Floor

Imagery from Space to Sky to Ground

Trainer: Moka Apiti, Digital Navigators Ltd. and Raleigh Seamster, Google Earth Outreach

Google Maps & Earth make a vast amount of imagery freely available to the public. In this session, you will get an overview of the tools and processes available for updating and adding to the satellite imagery in Google Earth and Maps. You'll also learn how to collect your own 360-degree Street View imagery to include these virtual panoramas in your own maps and stories. Lastly, we'll explore emerging techniques for collecting your own imagery with drones.

Beaver Hall, 8th Floor

Timelapse & Earth Engine: Exploring Three Decades of Planetary Change

Trainer: Dr. Cynthia Annett, Kansas State University and University of Alaska

Timelapse builds on Earth Engine to show three decades of planetary change, both man-made and natural. In this session, you'll be able to explore changes in areas you care about, use the animations in presentations, learn how to embed Timelapse into websites. We'll review other useful datasets built through Earth Engine, such as global forest change and global water loss and gain.

Ste-Hélène, 8th Floor

Open Data and Open Source Tools - Drop-in and Building Time

Trainers: Julia Conzon, Employment and Social Development Canada, Aliya Ryan, Gregor MacLennan, and Jen Castro, Digital Democracy

Drop-in session for ideation and support on using open source tools for your projects. Trainers present have experience with Mapbox, OpenStreetMap, JOSM, R, Mapeo, and QGIS. Bring your ideas and questions to get 1:1 consultation! Or bring your projects and build with us.

St. Paul, 8th Floor

MappingBack: Designing Alternative Indigenous Maps

Trainers: Annita Lucchesi, University of Lethbridge, Sébastien Caquard, and Tom McGurk, Concordia University

During these sessions, participants will be invited to think about how they see their territory and to work with pencils, paper, painting, fabric, clay, scissors, computers and any other material to create maps that reflect their visions. The creation of these maps will be facilitated by Indigenous and non-indigenous mapmakers with experience in alternative forms of cartography. The overall goal of these sessions is to expose participants to the endless possibilities of representing territories, stories, and epistemologies differently, and to promote the development of spatial representations that emerge from members of Indigenous communities. Participants can join us for either 1, 2, 3 or 4 days of these sessions.

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16:30-17:00

Montréal, 11th Floor

Closing Ceremony



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