International Fall School in Hydrographic Surveying
October 25 to 29, 2021

Lectures program - Université Laval – ABP-0160, Abitibi-Price Hall
Time zone: Eastern Daylight Time – Quebec City - Canada

	Lectures, conferences and social activities			
	25 October	**26 October**	**28 October**	**29 October**
8:30 – 9:00	Welcome address Sylvie Daniel, UL	Digital bathymetric model, uncertainty estimation Brian Calder, UNH	Backscatter data processing and habitat mapping Craig Brown, DalhousieU	Topo-bathy LIDAR and hydrodynamic modelling Nathan Crowell, NSCC
9:00 – 10:00	Basics of bathymetry S. Daniel, UL	Digital bathymetric model, uncertainty estimation Brian Calder, UNH	Backscatter data processing and habitat mapping Craig Brown, DalhousieU	Topo-bathy LIDAR and hydrodynamic modelling Nathan Crowell, NSCC
10:00 – 10:30	Coffee break			Coffee break
10:30 – 11:00	Basics of bathymetry Sylvie Daniel, UL	Coffee break	Coffee break	Satellite derived bathymetry Anders Knuby, U of Ottawa
11:00 – 11:30	Basics of bathymetry Sylvie Daniel, UL	Recent developments in GNSS and their application to hydrography Sunil Bisnath, YorkU	Surface and submersible hydrographic survey vehicles and their positioning methods Olga Telecka, MI	Satellite derived bathymetry Anders Knuby, U of Ottawa
11:30 – 12:30	Basics of bathymetry Sylvie Daniel, UL	Recent developments in GNSS and their application to hydrography Sunil Bisnath, YorkU	Surface and submersible hydrographic survey vehicles and their positioning methods Olga Telecka, MI	Satellite derived bathymetry Anders Knuby, U of Ottawa

	25 October	26 October	28 October	29 October
12:30 – 13:30	Lunch	Lunch and visit of the Maritime Simulation and Resource Centre (Group 1)	Lunch and visit of the Maritime Simulation and Resource Centre (Group 2)	Lunch
13:30 – 14:30	Vertical referencing, hydrodynamic modeling Ian Church, UNB	Lunch and visit of the Maritime Simulation and Resource Centre (Group 1)	Lunch and visit of the Maritime Simulation and Resource Centre (Group 2)	Hands-on and bathymetric data processing Sylvie Daniel, ULaval
14:30 – 15:00	Vertical referencing, hydrodynamic modeling Ian Church, UNB	Patch test in a hydrographic and LiDAR slant Sean Galway, BCIT	Single beam, bathymetry in river and shallow water Mathieu Rondeau, SHC	Hands-on and bathymetric data processing Sylvie Daniel, Ulaval
15:00 – 15:30	Coffee break	Patch test in a hydrographic and LiDAR slant Sean Galway, BCIT	Single beam, bathymetry in river and shallow water Mathieu Rondeau, SHC	Hands-on and bathymetric data processing Sylvie Daniel, Ulaval
15:30 – 16:00	Conference: Virtual reality and maritime simulation Alexandre Paradis, CSEM Benoit Duinat, CIMMI	Coffee break	Coffee break	Coffee break
16:00 – 16:30	Conference: Virtual reality and maritime simulation Alexandre Paradis, CSEM Benoit Duinat, CIMMI	Patch test in a hydrographic and LiDAR slant Sean Galway, BCIT	Single beam, bathymetry in river and shallow water Mathieu Rondeau, SHC	Closing words Sylvie Daniel, UL
16:30 – 17:00	Break	Patch test in a hydrographic and LiDAR slant Sean Galway, BCIT	Single beam, bathymetry in river and shallow water Mathieu Rondeau, SHC	Closing words Sylvie Daniel, UL
17:00 – 17:30	Social activity	Conference: Hydrospatial and hydrography in the world Denis Hains, H2i		
17:30 – 18:00	Social activity	Conference: Hydrospatial and hydrography in the world Denis Hains, H2i		