Monday, March 26, 2018

07 h 00 - 18 h 00  
Registration Open

08 h 00 - 17 h 00  
COMREN STUDENT SESSION
All student attendees are welcome to attend. COMREN students are required to participate in the session.

08 h 30 - 16 h 30  
Workshop Options

Morning Workshop #1 (half day): Merging Multibeam and LiDAR data Presented by HYPACK
Speaker: Harold Elliot Orlinsky, General Manager, Hypack
The workshop will present the HYPACK 2018 changes and demonstrate the collection and processing of multibeam and Lidar sensors when collected simultaneously. Using both automated and manual cleaning tools, surface cleaning, vegetation filters, the data can easily be processed to a final data set. The workshop will also show how the data can be exported out to various formats, including, XYZ and LAS, TIF, DXF, and KMZ, among others.

Morning Workshop #2 (half day): eTrac Workshop - Using QINSy and Qimera for Hydrographic Data Acquisition, Processing, and S-57 Feature Management to Accomplish the NOAA Workflow Presented by QPS Inc.
In this collaborative workshop, QPS and eTrac will provide an introduction to the QPS hydrographic data acquisition and processing workflows, and the methods in which eTrac is using the software to maximize efficiency and quality control as part of a NOAA project. Participants will learn how eTrac has attained value through the adoption of the QINSy-to-Qimera workflow by way of time savings benefits, processing and real-time QA/QC. The numerous feature investigations specific to the project will allow for the showcasing of the
new feature management workflow released in Qimera v1.6, and the Qimera tools now available to users to generate S-57 files. The workshop will be composed primarily of QPS software demos, with eTrac’s highly-skilled personnel on-hand to provide field perspective and observations. Also demonstrated will be Qimera Live as a tool for just-in-time data processing, and processing water column data to determine the least depths of wrecks.

Morning Workshop #3 (2 hours): Automated Bathymetry Updates with ArcGIS for Maritime Presented by Esri
Speaker: Kevin Ingram, Senior Technical Manager - Maritime, Esri
Speaker: Rafael Ponce, Executive Consultant - Maritime Services, Esri
Some of the most time-consuming work in hydrography is analyzing new bathymetry, comparing it in context with prior surveys and other data, and updating navigation products at various scales and formats with the new survey. Technical staff from Esri will show how the scripting capabilities within the ArcGIS platform automate this work. During the workshop, participants will see how ArcGIS for Maritime ingests a final bathymetry survey, automatically identifies the affected vector and raster charts, uses best-in-class tools to generate shoal-biased soundings and depth curves at appropriate scales, and updates all the affected products.

Afternoon Workshop #1 (half day): Implementation of an Unmanned Surface Vehicle and Echosounder into the Land Surveyors Workflow Presented by Seafloor Systems, Inc.
When conducting typical topographic survey operations, Land Surveyors frequently come across water features such as rivers, lakes, ponds, and streams in their area of operation. The common practice in this case is to utilize a rod extension from a small boat to conduct observations. This can be expensive, time consuming, and tedious. By integrating a small, portable USV equipped with an echosounder device, the topographic surveyor can quickly and easily collect continuous topographic data.

Afternoon Workshop #2 (half day): Maximizing Survey Efficiency and Data Quality with Sound Velocity Profiling Presented by AML Oceanographic
Whether you are surveying shallow, coastal waters in a small boat or deep waters on a large research vessel, sound velocity profiling affects your survey operations and results. In this workshop, you will learn how to streamline your sound velocity profiling procedures to economize survey activities while improving the quality of the data collected.

Afternoon Workshop #3 (half day): What’s New in CARIS Software Presented by Teledyne Caris
Speaker: Karen Cove, Teledyne CARIS
Speaker: Burns Foster, Teledyne CARIS
In this workshop, we will present the latest developments in CARIS technology, including the following:
- Learn about new capabilities and opportunities that can be leveraged in Bathy DataBASE including feature management, connectivity to third party data sources and spatial analysis
- The new, simplified processing workflow in HIPS and SIPS, and how the user can get from raw data to a processed solution in just a few
Topographic survey data utilizing their existing survey gear and workflow process.

- The latest advances in automated data processing with CARIS Onboard including multi-sensor support and monitoring your survey products in real-time through a web browser

13 h 00 - 15 h 00 Afternoon Workshop #4 (2 hours): Integrated Hydrographic Survey Solutions Presented by Teledyne Marine
Speaker: Pim Kuus, Site Engineering Manager, Teledyne Marine
Speaker: Shannon Searing, Sales Manager
10 min on Teledyne Marine overview
30 min Bathymetry, Habitat Mapping & Backscatter Seabat T-series multibeam echosounder performance explained in relation to habitat mapping – Short demonstration with actual data using PDS and CARIS Software.
- 20 min RapidCast / Z-boat OceanScience, CARIS on board

15 h 30 - 16 h 30 Afternoon Workshop #5 (1 hour): How to Get the Most Out of your Online Marketing Tools Presented by Geomares
The world is evolving every day and so is people’s online behaviour. Google processes 40,000 searches every second and Facebook receives 6 billion likes a day. Geomares has a team of online marketers who monitor the online trends and tools every day with a special focus on the hydrographic industry. In this workshop Durk Haarsma from Geomares will guide you through the most important trends and tools and how to get the most out of them for your company!

18 h 00 - 20 h 30 Welcome Reception - Sticky Wicket Pub at the Strathcona 919 Douglas Street | Victoria, BC V8W 2C2 SPONSORED BY IX BLUE