

**US Hydro 2019 Workshop Schedule**

Day/Time, Room	Presenter	Workshop Title	Workshop Description
<p><b>Monday, 9:00am-12:00pm, Azalea Ballroom A</b></p>	<p>ESRI</p>	<p>Automated Generation of Safe, Smooth Depth Contours with ArcGIS</p>	<p>Some of the most time-consuming work in hydrography is the production of safe, shoal-biased, cartographically-pleasing depth contours. This process typically involves many hours of manual drafting and revision by highly trained cartographers. This process must be repeated every time a new bathymetric survey is performed. Furthermore, for a given geographic area, the depth contours that are appropriate for a chart product at one scale are not appropriate for a chart product at a different scale. Each scale-specific set of depth contours must be developed separately.</p> <p>Technical staff from Esri will demonstrate a new approach, using ArcGIS for Maritime, that automatically generates depth contours that are guaranteed to be safe. Further, this technique can smooth the contours, to any desired degree of smoothness, without violating the safety constraint. The result is hands-free, chart-ready depth contours whenever you need them.</p>
<p><b>Monday, 9:00am-12:00pm, Azalea Ballroom B</b></p>	<p>Caris</p>	<p>Teledyne CARIS data processing: Usability through Automation</p>	<p>In this workshop, Teledyne CARIS will show the recent developments in the field of hydrographic data processing from Ping-to-Chart. The focus areas will be process automation, including CARIS Onboard and the use of process models in HIPS &amp; SIPS, and new leading edge data cleaning tools which revolutionize the way we think about making survey data ready for use as marine spatial products. In addition, staff from CARIS will be present to answer questions and discuss the use of any of the products in the Ping-to-Chart workflow.</p>
<p><b>Monday, 9:00am-12:00pm, Azalea Ballroom C</b></p>	<p>SBG</p>	<p>Qinertia INS/GNSS Post processing software, Improve / ease your survey acquisition</p>	<p>Discover the next generation of INSS / GNSS post processing software; Qinertia revolutionizes the workflow by offering a modern, fast, and state-of-the-art application to surveyors. After a presentation of the package, get your hand on Qinertia to check by yourself what improvements a PPK software can bring to your survey.</p>

Day/Time, Room	Presenter	Workshop Title	Workshop Description
Monday, 1:30-4:30pm, Azalea Ballroom A	Hypack	HYPACK® 2019 New Features and Updates for Unmanned Solutions	
Monday, 1:30-4:30pm, Azalea Ballroom B	Seafloor Systems	Hydrographic Surveying using an Unmanned Surface Vehicle	The goal of this workshop is to demonstrate the steps to prepare and carry out a hydrographic survey using an Unmanned Surface Vehicle in both autonomous and remote control modes.
Monday, 2:00-4:00pm, Azalea Ballroom C	R2Sonic	The Multispectral Mode: the ability to survey with different frequencies with one vessel and in one pass.	<p>Please join R2Sonic to learn more about the Multispectral mode and to have an overview of how it works.</p> <p>The Multispectral Mode provides full coverage multi-frequency surveys (up to 5 different frequencies) in a single pass and with a single system. It also has the added advantage of naturally matching up the backscatter aspect angles of the different frequencies.</p> <p>As a result:</p> <ol style="list-style-type: none"> <li>1. You save time and money over the traditional method of using multiple boats and conducting several surveys</li> <li>2. The comparison of data collected at different frequencies is more accurate and reliable as they have the same aspect angles</li> </ol> <p>Mike Brissette, our expert in Multispectral Mode, will cover:</p> <ul style="list-style-type: none"> <li>• How to set up the Multispectral Mode on the user interface</li> <li>• Criteria to keep in mind as the survey is conducted</li> <li>• Different types of data processing software available to post-process the multispectral data</li> <li>• Examples and Q&amp;A</li> </ul> <p>We're looking forward to seeing you there!</p>

<p><b>Monday, 1:30-4:30pm, Azalea Ballroom D</b></p>	<p>QPS</p>	<p>Innovative Workflows for Today's Hydrographic Office</p>	<p>With ever increasing data volumes and survey submissions, hydrographic offices need to do more than what was required in the past, while continuously improving timeliness and accuracy in the nautical charting pipeline. This workshop will focus on how to use QPS software to get the job done faster and easier by taking advantage of workflows that highlight automation, efficiency and integration.</p> <p>Emphasis will be placed on:</p> <ul style="list-style-type: none"> <li>• QPS Qimera intelligent processing state management</li> <li>• How to easily divide projects to allow multiple personnel to work simultaneously</li> <li>• Utilization of spline filters for rapid data cleaning</li> <li>• How the "Connected" S-57 feature management workflow increases efficiency</li> <li>• Using QPS Qimera integrated water column processing to easily attain least depths atop wrecks and obstructions</li> <li>• Backscatter processing best practices which utilize the seamless connection to QPS FMGT</li> </ul> <p>Primarily through live software demos, participants will be shown how to move quickly from acquisition to open source deliverables. The workshop will wrap-up by showcasing how to effectively communicate survey results through interactive 3D presentations using QPS Fledermaus.</p>
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