

# Airborne Data Collection System Launched at ASPRS

Teledyne Optech has unveiled an airborne collection system at the ASPRS Imaging & Geospatial Technology Forum (IGTF), which is being held from 11-15 April 2016 in Fort Worth, TX, USA. The forum also includes a presentation on a recent survey in Panama by the Optech CZMIL (Coastal Zone Mapping and Imaging Lidar) Nova, and details of the Optech Galaxy's SwathTRAK technology.

The new airborne system offers a model for surveying smaller areas and corridors. Based on collaboration with Teledyne Technologies, this product features techniques that will push down costs and improve ease of use for airborne surveyors. It is on display on the exhibition floor at booth 702, where visitors can see the new system hardware and get a detailed explanation of its capabilities.

## Gatun Lake Survey

At ASPRS, Teledyne Optech research engineer Vinod Ramnath and corporate partner IIC Technologies are presenting results from a recent project by the Optech CZMIL Nova airborne Lidar-imaging sensor system around Gatun Lake, Panama. As part of the CZMIL Project Program, the Panama Canal Authority (APC) commissioned IIC Technologies to survey the waters of Gatun Lake near the Canal using the CZMIL. This presentation describes the techniques used by CZMIL and its HydroFusion processing workflow to achieve excellent depth penetration despite the very turbid water. Mr Ramnath also compares CZMIL's performance to independent Secchi depth measurements taken in several locations around the lake and discusses current methodologies for characterising water turbidity and predicting Lidar penetration depths. Attendees could learn about Lidar bathymetry and see what to expect from the CZMIL Project Program in Room 104 at 2:00PM on 13 April.

During ASPRS, visitors can also get in-depth answers about how the Optech Galaxy airborne Lidar system can reduce their flight cost with its SwathTRAK technology. SwathTRAK uses a dynamic field of view to adjust the Galaxy's scan angle on the fly in response to changing terrain elevation, letting users save time and money by spacing their flight lines farther apart.

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