

Approved for public release, NGA-U-2026-01579

2026 Photogrammetry, 3D Visualization, and Lidar (P3DL) CoP Conference Agenda				Keynote
Location: NCE (Allder)/Microsoft Teams				Lidar Applications
Classification Level Up To: UNCLASSIFIED and UNCLASSIFIED//For Official Use Only				Standards and Accuracy
Tuesday, 28 July 2026				Lidar Technologies
Time	Briefing Title	Speaker	Length	P3DL Bathymetry
0800	Introduction	Chris Cugier, Tyler Harding (NGA)	5	3D Reconstruction/Visualization
0805	Keynote	Scott Luthcke, NASA	30	
0835	Break		15	
0850	Operationalizing ICEChip: Automated Quality Control for Global Elevation Datasets	Shannon Jones, NGA	15	
0905	Using ICESat-2 for Validation of Vantor Vivid Terrain (Precision3D) Products, Enabling Sub-meter Absolute 3D Geolocation Accuracy and Precision	David Shean, Shean Geospatial, LLC; University of Washington	15	
0920	Federating International Lidar Data for Geolocation Testing	Mark Abrams, Exquisite Geolocation Systems	15	
0935	A Statistical Approach for Evaluating Surface Smoothness in Lidar Point Clouds	Qassim Abdullah, Woolpert	15	
0950	Break		15	
1005	Shaping the Next Decade of 3D Geospatial: A Deep Dive into 3D Tiles 2.0	Trent Tinker, Cesium	15	
1020	Real3D in GRiD: NGA's First 3D GEOINT Product Reaches the Analyst	Eric Robeck, NGA	15	
1035	Not Yesterday's Digital Twin: Real-time Updates to 3D Models Based on	Dirk Reiners, University of Central Florida	15	Digital Twin Panel Banneker Room
1050	Real-time LiDAR Scene Reconstruction for XR Teleoperations	Quang Vo, Noblis, Inc.	15	
1105	Lunch		60	
1205	Exhibitor Talks	BAE Systems, Blue Marble Geographics, Cesium, Clear Fracture, Environmental Systems Research Institute, Inc. (ESRI), Noblis, Skyline Software Systems, Inc., Teledyne FLIR, Woolpert Inc., Headwall	100	
1345	Break		15	
1400	From Human Sensing to Machine Sensing: Advancing High-Altitude, High-Definition Lidar with Woolpert's Zeus Platform	Nathan Hopper, Woolpert	15	
1415	Identifying Navigationally Significant Features in Bathymetric Lidar	Karen Hart, Woolpert	15	
1430	Dense Stereo DSM Noise/Water Artifact Detection and Characterization	Jim Massaro, Oak Ridge National Laboratory (ORNL)	15	
1445	Automated Satellite-Derived Bathymetry in Turbid Coastal Water	Matt McCarthy, Oak Ridge National Laboratory (ORNL)	15	
1500	On Establishing a New Lunar Geodetic System for Future Lunar Exploration	Hector Cotto Ortiz, NGA	15	
1515	Break - For Official Use Only Session begins		15	
1530	Ground Truth Test and Evaluation of Space Based InSAR for Mapping Arctic Terrain Dynamics	U.S. Army Engineer Research and Development Center (ERDC) - Geospatial Research Laboratory (GRL)	15	
1545	Modeling and Simulation of Geiger-mode LiDAR	Phillip Price, U.S Army Engineer Research and Development Center	15	
1600	Development of Radiation-Hardened Geiger-mode Avalanche Photodiode (GmAPD) Cameras	Channing Philbrick, BAE Systems SMS	15	
1615	CLOSE			

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