

Event Summary

DAY 1 MONDAY 23 NOVEMBER 2015

14.00	WELCOME Alastair MacDonald, Conference Chairman
14.10	KEYNOTE: 3D in the image of a city Luc Van Gool, Deputy Head of Computer Vision Laboratory, ETH Zürich, Switzerland
1	E1: DATA ACQUISITION: LIDAR – ALL SECTORS
14.40	Vianden Castle 3D – Combined 3D-technologies for multidimensional presentation Martin Schaich, ArcTron 3D, Germany
15.10	COFFEE BREAK <i>Sponsored by URC Ventures</i>
15.40	How 12,903 of the World's most beloved landmarks were virtually reconstructed in six days David Boardman, URCV, USA
16.10	BIM to Field – What's the reality of capturing reality for construction and engineering Andrew Evans, Topcon, Netherlands and Lee Mullin, Autodesk, UK
16.40	END OF SESSION 1
17.00	OPENING NIGHT COCKTAIL RECEPTION - IN THE EXHIBIT HALL UNTIL 19.00

EUROPA HALL

MOZART HALL

WOLF DIETRICH HALL

DAY 2 TUESDAY 24 NOVEMBER 2015

08.30	REGISTRATION OPENS	
2	E2: DATA ACQUISITION: LIDAR – ALL SECTORS	M2: IMAGING, POINT CLOUDS, DATA MANAGEMENT, MODELLING & GIS
09.00	A new approach to airborne LiDAR and the multipulse challenge Michael Sitar, Teledyne Optech, Canada	Geiger-mode LiDAR mapping: High density, high volume airborne 3D imaging Randy Rhoads, Harris Corporation, USA
09.30	Understorey mapping using multi-spectral LiDAR - Newest results Antoine Cottin, Carbomap, UK	Automatic 3D point cloud scan alignment using a cloud computer cluster Hadi Baghsiahi, University College London, UK
10.00	Digital Railway: GWRM Luke Cooper, Arup, UK	LiDAR based surveillance with online object categorisation and biometric person identification Csaba Benedek, MTA SZTAKI, Hungary
10.30	COFFEE BREAK <i>Sponsored by URC Ventures</i>	
3	E3: DATA ACQUISITION: LIDAR – ALL SECTORS	M3: IMAGING, POINT CLOUDS, DATA MANAGEMENT, MODELLING & GIS
11.00	Mobile mapping via real-time 3D LiDAR scanners 'taking off' Wolfgang Juchmann, Velodyne LiDAR, USA	4D Point Clouds – Challenges, solutions and applications Rico Richter, Point Cloud Technology, Germany
11.30	Integration of airborne and mobile LiDAR for high accuracy highway mapping Julien Vallet, Helimap System, Switzerland	Minecraft: How a 3D point cloud game is solving real life problems Ken Bragg, Safe Software, Canada
12.00	Improving depth penetration and object detection in turbid water Anders Ekelund, Leica Geosystems, Switzerland	Creating better Digital Surface Models from LiDAR points Martin Isenburg, rapidlasso, Germany
12.30	LUNCH <i>Sponsored by URC Ventures</i>	
4	E4: DATA ACQUISITION: LIDAR – BATHYMETRY	M4: IMAGING, POINT CLOUDS, DATA MANAGEMENT, MODELLING & GIS
14.00	Interaction of laser pulses with the water surface at different wavelengths and angles of incidence Gottfried Mandlbauer, TU Wien, Austria	A new generation of Point Cloud Data Management Systems Romulo Goncalves, Netherlands eScience Center
14.30	The do's and don'ts of TopoBathymetry Frank Steinbacher, AirborneHydroMapping, Austria	Assessing rail signal visibility directly with georeferenced point clouds Gordon Watson, 3D Visual Simulations, UK
15.00	Nationwide aerial laser scanning for 3D-acquisition of water surfaces in Slovenia Mihaela Triglav-Čekada, Geodetic institute of Slovenia	Laser scanning for structural health monitoring: Opportunities and challenges Sinan Acikgoz, University of Cambridge, UK
15.30	COFFEE BREAK <i>Sponsored by URC Ventures</i>	

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TECHNICAL WORKSHOPS

3D Reshaper
3D software designed for surveyors: The new features in the 2015 MR1 version of 3D Reshaper

Microsoft / Vexcel Imaging
UltraCam Panther: redefining 3D Reality Capture indoors, outdoors, everywhere

Topcon Positioning Europe
How their range of sensors can be used to best advantage in particular projects

TECHNICAL WORKSHOPS

Teledyne Optech
Overview of the capability of LiDAR Mapping Suite v3.0 with image data examples and accuracy metrics

Blue Marble Geographics
Vegetation monitoring using NIR LiDAR data

RIEGL Laser Measurement Systems
Latest innovations of RIEGL's high performance 3D laser scanners – evolution of the VZ brand

TECHNICAL WORKSHOPS

Bentley Systems - The processing steps in both ContextCapture (Photogrammetric solution for mesh production) and Pointools (LiDAR pointcloud preprocessing) for producing Reality models

Leica Geosystems
Land, sea and sky(scrapers): flexibility and expandability of Leica Geosystems' airborne LiDAR portfolio

DAY 2 TUESDAY 24 NOVEMBER 2015

	EUROPA HALL	MOZART HALL	WOLF DIETRICH HALL
5	E5: DATA ACQUISITION: BUILDINGS, FACILITIES, BIM	M5: VISUALISATION, 3D, AUGMENTED REALITY	TECHNICAL WORKSHOPS
16.00	Using LiDAR scanners on fixed installations to improve monitoring of stockpiles Brett Owens, Neptec Technologies, Canada	Taming the beast: Free and open-source massive point cloud web visualisation Oscar Martinez-Rubi, Netherlands eScience Center	Trimble How data was captured and processed with multiple solutions to create detailed documentation of historic structures on the island of St John
16.30	3D point cloud management and sharing for infrastructure maintenance: REX after one year Jean-Christophe Michelin, SNCF RESEAU, France	A Geo-Simulation System Arno Buecken, RWTH Aachen University, Germany	Safe Software Unlocking the full potential of point cloud data with FME
17.00	High density coloured point clouds for 3D city modelling from aerial images and LiDAR Philipp Grimm, IGI, Germany	Visualisation and interaction techniques for massive, semantically rich 3D point clouds Sören Discher, Hasso Plattner Institute, Germany	
17.30	END OF DAY 2		

DAY 3 WEDNESDAY 25 NOVEMBER 2015

08.30	REGISTRATION OPENS		
6	E6: DATA ACQUISITION: BUILDINGS, FACILITIES, BIM	M6: VISUALISATION, 3D, AUGMENTED REALITY, FORENSICS	TECHNICAL WORKSHOPS
09.00	Light at the end of the tunnel – Integrated BIM for failure-free retrofitting of motorway tunnels Johan Kuppens, neanex, Belgium	Unlimited visualisation of large LiDAR datasets by intelligent streaming technologies (IQ3D) Rinaldo Wurglitsch, IQSOFT, Austria	LFM Software Trusted Living Pointcloud: a fresh approach to delivering, managing and consuming point cloud data
09.30	Advanced LiDAR technologies for the construction of the Italian Pavilion at the Milan Expo 2015 Matteo Sgrenzaroli, Gexcel, Italy	Large coverage derivation of building models and vegetation layers based on LiDAR data Frederic Petrini-Monteferrri, Laserdata, Austria	Trimble RealWorks Advanced-Tank provides optimised analysis, and reporting functions to rapidly provide storage tank inspection and calibration results from laser scanning data.
10.00	Terrestrial laser scanning applications for As-Built conditions in shipbuilding industry Saimon Conti, CNT Technologies, Italy	Augmented Reality - how we see the world tomorrow Saif Alsaifi, GRINTEC, Austria	FARO Europe New developments and news from the 3D industry
10.30	COFFEE BREAK <i>Sponsored by URC Ventures</i>		
7	E7: RECENT PROJECTS, DEVELOPMENT, TRENDS	M7: MOBILE MAPPING/UAVS	TECHNICAL WORKSHOPS
11.00	Laser Scanning, BIM and demolition Alexandra Grounds, Grounds Associates, UK	Evaluation of testing methods for positioning modules Milan Horemuz, KTH, Sweden	RIEGL Laser Measurement Systems Report on Extended Performance Tests with the RIEGL VQ-880-G Topo-Bathymetric Laser Scanner
11.30	Comparing photogrammetry and laser scanning: A 3D reconstruction of the Castle of Penne Cyril Novel, Acute3D - Bentley Systems, France	Mapping the invisible world Tommaso Santagata, La Venta Geographic Explorations, Italy	Teledyne Optech Quality assurance and quality control procedures for survey-grade mobile mapping systems
12.00	Modelling of forest landscapes from remote sensing LiDAR data and aerial photos Arno Buecken, RWTH Aachen University, Germany	Capturing road marking conditions of motorways using mobile laser system point clouds Magdalena Wilczek, Blom Aerofilms, UK	Arithmetica Current and future developments in automating the scan to model workflow process
12.30	New tools and workflows for validating construction accuracy Kevin Williams, ClearEdge 3D, USA	Inertial navigation in long tunnels with centimetre accuracy and minimal control features Jens Kremer, IGI, Germany	Carbomap (co-sponsored by RIEGL) The advantages of Pulswaves over LAS (or why industry should adopt it!)
13.00	LUNCH <i>Sponsored by URC Ventures</i>		
8	E8: RECENT PROJECTS, DEVELOPMENT, TRENDS	M8: MOBILE MAPPING/UAVS	TECHNICAL WORKSHOPS
14.30	Estimating the stability of a retaining wall using terrestrial laser scanning data and UAV images Peter Dare, University of New Brunswick, Canada	Capturing the rock faces of a gorge with sUAS Thomas Geisler, GRID-IT Gesellschaft für angewandte Geoinformatik, Austria	Leica Geosystems Bringing Volume Data Capture into the BIM generation
15.00	3D LiDAR mapping of underground metro system Erdal Yilmaz, Bimtaş, Turkey	LiDAR: A Buyer's Guide Neil Slatcher, 3D Laser Mapping, UK	
15.30	Large scale photogrammetric 3D city capturing Konrad Wenzel, nFrames, Germany	3D laser scanning in the service of the buildings protection in mining land Piotr Gruchlik, Central Mining Institute, Poland	
16.00	CLOSING CONFERENCE REMARKS		
16.10	END OF CONFERENCE		

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