Monday, September 11, 2017

from 7:30 Registration of participants
9:00 Opening of the 56th Photogrammetric Week
Welcome Addresses
Brief Lectures by the OpenPhowo Partners
9:20 Hartmut Rosengarten, Leica Geosystems, Heerbrugg, Switzerland
RealWorld - RealCity - RealTerrain
borne Reality Capture – The Integral World of Leica Airborne Solutions
9:50 Alexander Wiechert, Vexcel Imaging, Graz, Austria
News from Vexcel Imaging
10:10 Andreas Ulrich, Riegl, Horn, Austria
Advances in RIEGL's Waveform-LiDAR Technology and Waveform-LiDAR Products
10:30 Break
11:00 Philipp Grimm, IGI, Kreuztal, Germany
News from IGI
11:20 Ronald Bisio, Trimble, Stuttgart, Germany
Beyond Surveying & Mapping - Employing AUS, Image Processing & Feature Extraction to Improve Agricultural Production
11:40 Konrad Wenzel, nFrames, Stuttgart, Germany
Large Scale Airborne City Capturing - Challenges and Opportunities
12:00 Martin Rehak, Pix4D, Lausanne, Switzerland
Photogrammetric Innovations for Industry Applications
12:20 Announcements
Lunch Break
14:30 Demonstrations
in groups according to separate schedule (in D & E)
17:00 1st Topic: "Sensors"
Michele Crosetto, CTTC, Castelldefels, Spain
Deformation Monitoring by Means of Ground-based and Satellite SAR
Andreas Reigber, German Aerospace Center (DLR), Oberpfaffenhofen, Germany
DLR's Airborne F-SAR System
10:00 Coffee Break
10:30 Boris Jutzi, Karlsruhe Institute of Technology, Germany
Less Photons for More LiDAR? A Review from Multi-Photon-Detection to Single-Photon-Detection
11:00 Ralf Reulke, German Aerospace Center (DLR), Berlin, Germany
Hyperspectral Systems: Recent Developments and Low Cost Sensors
11:30 "Cultural Heritage"
Chance Coughenour, Google, London, UK
Google Arts & Culture
12:00 The Carl Pulfrich Award 2017 Ceremony
- Jürgen Dold, Hexagon Geosystems, Heerbrugg, Switzerland (Introduction)
- The Carl Pulfrich Awardee
12:30 Lunch Break
14:30 Demonstrations
in groups according to separate schedule (in D & E)
17:00 In groups according to separate schedule (in D & E)
18:00 Reception by the City of Stuttgart
City Hall
19:00 Ice Breaker Party in the Conference Building K2 (Foyer Lecture Hall)
20:00
Wednesday, September 13, 2017

2nd Topic: "Autonomous Driving and Photogrammetry"

8:45  Martin Haueis, Daimler, Sindelfingen, Germany
      Mapping the World - Vehicle Localization for Autonomous Driving

9:30  Stefan Hinz, Karlsruhe Institute of Technology, Germany
      Visual SLAM with Multi-Fisheye Camera Systems

10:00 Thomas Luhmann, Jade University of Applied Sciences Oldenburg, Germany
      Dense Pointclouds from Combined Nadir and Oblique Imagery by Object-based Semi-global Multi-image Matching

10:30 Coffee Break

11:00 Torsten Sattler, ETH Zürich, Switzerland
      Out with the Old? Convolutional Neural Networks for Feature Matching and Visual Localization

11:30 Franz Rottensteiner, Univ. Hannover, Germany
      Which Data Do We Need for Training? Domain Adaption and Learning Under Label Noise

12:00 Werner Bösemann, AICON 3D Systems, Braunschweig, Germany
      Industrial Photogrammetry for Applications in Automotive and Aerospace Industry

12:30 Lunch Break

14:30 Demonstrations
      in groups according to separate schedule (in D & E)

17:00

Thursday, September 14, 2017

3rd Topic: "Precision Farming and Remote Sensing"

8:45  Dimitris Paraforos, Institute of Agricultural Engineering, University of Hohenheim, Germany
      Precision Farming - Technology for Highly Efficient Production Systems

9:25  Amo Ruckelshausen, University of Applied Sciences Osnabrück, Germany
      Imaging Sensor Systems - Key Technology for Innovative and Sustainable Agricultural Systems

10:05 Anja Klisch, Universität für Bodenkultur (BOKU) Wien, Austria
      The Arrival of a Game Changer: Sentinel-2 and Possible Applications for Vegetation Monitoring in Forestry and Agriculture

10:35 Coffee Break

11:05 Peter Krzystek, Department of Geoinformatics, University of Applied Sciences, Munich, Germany
      LiDAR-based 3D Mapping of Forests

11:35 Gottfried Mandlburger, University of Stuttgart, Germany
      Bathymetry from Active and Passive Airborne Remote Sensing - Looking Back and Ahead

12:05 Herbert Brockmann, German Federal Institute of Hydrology (BfG), Koblenz, Germany
      From Applied Research to Application - Remote Sensing Products for Waterway Management

12:35 Lunch Break

14:30 Demonstrations
      in groups according to separate schedule (in D & E)

17:00

Evening: Get-Together Night at Alte Kelter in Fellbach
18:00 Busses will leave for Get-Together and PhoWo Dinner Party
19:00 Get-Together Night and PhoWo Dinner Party, Alte Kelter, Fellbach
Return at about 22:30

Friday, September 15, 2017

4th Topic: "BIM and GIS"

8:45  Andre Bormann, TU Munich, Germany
      BIM - The Digitalization of the Construction Industry

9:30  Uwe Stilla, TU Munich, Germany
      Process Monitoring of Construction Sites by Photogrammetric Point Clouds and 4D Building Information Models (BIM)

10:00 Jakob von Heyl, University of Stuttgart, Germany
      Lean Production Controlling and Progress Tracking Using Digital Methods

10:30 Coffee Break

11:00 Stephan Nebiker, FHNW, School of Architecture, Civil Engineering and Geomatics, Muttenz, Switzerland
      3D Imagery for Infrastructure Management - Mobile Mapping Meets the Cloud

11:30 Thomas Kersten, HafenCity University Hamburg, Germany
      Virtual Monuments and Virtual Museums in a Game Engine – An Immersive Experience Using the VR System HTC Vive

12:00 Closing Session

12:30 Farewell Drink

Demonstrations of the OpenPhoWo Partners
(in groups according to separate schedule)

A  Leica RealWorld & RealCity - The Future of 2D and 3D Airborne Mapping (Leica Geosystems)
B  Leica Airborne LiDAR Solutions Update - from Bathy to SPL (Leica Geosystems)
C  Learning to See - Trimble Workflows for Multi-head Data and Neural Networks (Trimble)
D  IGI – Integrated Geospatial Innovations (IGI)
E  Vexcel Imaging, UltraCam and UltraMap (Vexcel Imaging)
F  Large Scale DSM, True Ortho and Mesh Production with SURE (inFrames)
G  Efficient and Versatile RIEGL Waveform-LiDAR Technology for Airborne and Terrestrial Data Acquisition (Riegl)
H  Photogrammetric Innovations for Industry Applications (Pix4D)