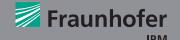
REGISTRATION | ACCOMODATION

CONTACT | DIRECTIONS





FRAUNHOFER INSTITUTE FOR
PHYSICAL MEASUREMENT TECHNIQUES IPM

NOVEMBER 26 - 27, 2014

MoLaS Technology Workshop 2014

Registration

Registration is possible starting February 1st, 2014. Please, register online on www.molas-workshop.org.

Participation fees

- »Early Bird« registration until August 31 st, 2014: 200 EUR
- Participants: 250 EUR
- Students: 150 EUR (valid student card required)

Payment upon invoice (for further details see website).

Accommodation

We have reserved a limited amount of single rooms for the duration of the workshop.

- Intercity Hotel Freiburg | www.intercityhotel.com
 Rooms at 79 EUR per person per night (incl. breakfast)
- Hotel Stadt Freiburg | www.hotel-stadt-freiburg.de
 Rooms at 82 EUR per person per night (incl. breakfast)
- Hotel Victoria | www.hotel-victoria.de
 Rooms at 98 EUR per person per night (incl. breakfast)

Rooms are reserved for workshop participants from November 26 to 27, 2014. Please book your room directly with the hotel (keyword »MoLaS«).

Venue

Fraunhofer Institute for Physical Measurement Techniques IPM Heidenhofstraße 8, 79110 Freiburg, Germany

Chair

Dr. Heinrich Höfler, Fraunhofer IPM
PD Dr. Alexander Reiterer, Fraunhofer IPM

Organization

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Directions

www.ipm.fraunhofer.de/directions

Registration and further information

www.molas-workshop.org



PROGRAM



Wednesday, November 26

Thursday, November 27

Technological trends in mobile laser scanning

Mobile laser scanning has evolved into one of the key technologies for fast and reliable 3D mapping. Today, a growing number of service providers capture geo data in many different environments by means of mobile laser scanners. The scanners survey infrastructure such as roads, railroad, buildings and facilities from moving platforms. They provide valuable data for maintenance activities or construction planning.

MoLaS is the first workshop to focus primarily on the technological aspects of mobile laser scanning. Internationally renowned experts present the latest technological trends and key technology drivers in mobile laser scanning. The workshop is aimed at scientists, representatives from industry and users of mobile laser scanning technology.

- **▶** Sensors
- **▶** Calibration
- **▶** Data Interpretation
- **▶** Application

13:00 h	Registration	
14:00 h	Opening	
14:15 h	Laser Scanning - Open the Black Box Harald Wölfelschneider, Department Object and Shape Detection, Fraunhofer IPM, Freiburg	ors
14:45 h	Novel 3D Mapping Sensors and Concepts – A Technology Review Prof. Uwe Stilla, Institute of Photogrammetry and Cartography, Technische Universität München	Session I: Sensors
15:15 h	Trajectory Estimation via Direct and In-Direct Sensor Systems Dr. Christian Briese, Department of Geodesy and Geoinformation, Vienna University of Technology	
15:45 h	Coffee Break / Poster Session	
16:30 h	Calibration Tasks in the Scope of Laser Scanner Based Multi-Sensor Systems Dr. Jens-André Paffenholz, Institute for Geodesy, Leibniz University Hannover	ion
17:00 h	Quality Assurance for Kinematic Multi-Sensor Systems Using the Example of Mobile Mapping Prof. Ingo Neumann, Institute for Geodesy, Leibniz University Hannover	Session II: Calibration
17:30 h	Efficiently Measuring with Prescribed Quality in Huge LMMS Point Cloud Data Dr. Roderik Lindenbergh, Department of Geoscience and Remote Sensing, Delft University of Technology	
18:00 h	Key Note Address Techniques for 3D Mapping with Mobile Robots Prof. Wolfram Burgard, Research Lab for Autono- mous Intelligent Systems, University of Freiburg	
	mods intelligent systems, oniversity or reloarg	

09:00 h	Knowledge-Based Processing of Point Clouds and Detection of Objects Prof. Frank Boochs / Dr. Ashish Karmacharya, Institute for Spatial Information and Surveying Technology, University of Applied Sciences Mainz	ocessing
09:30 h	Feature Relevance Assessment for the Semantic Interpretation of 3D Point Cloud Data Martin Weinmann, Institute of Photogrammetry and Remote Sensing, Karlsruhe Institute of Technology	Session III: Data Processing
10:00 h	Algorithmic Solutions for Computing Precise Maximum Likelihood 3D Point Clouds from Mobile Laser Scanning Platforms Prof. Andreas Nüchter, Institute for Robotics and Telematics, Julius-Maximilians-University Würzburg	Sessio
10:30 h	Coffee Break / Poster Session	
11:15 h	Precise 3D Measurement of the Road Surface as Basis for Simulation Models of Cars DrIng. Dirk Ebersbach, LEHMANN + PARTNER /	
	VECTRA Germany, Erfurt	ions
11:45 h	VECTRA Germany, Erfurt Mobile Laser Scanning for Tunnel Inspection and As-Built Documentation Gerhard Paar / Arnold Bauer, Institute for Information and Communication Technologies, Joanneum Research Graz	sion IV: Applications
11:45 h	Mobile Laser Scanning for Tunnel Inspection and As-Built Documentation Gerhard Paar / Arnold Bauer, Institute for Information and Communication Technologies, Joanneum	Session IV: Applications
	Mobile Laser Scanning for Tunnel Inspection and As-Built Documentation Gerhard Paar / Arnold Bauer, Institute for Information and Communication Technologies, Joanneum Research Graz Technology and Applications of a Backpack Mobile Laser Scanning System Prof. Juha Hyyppä / Antero Kukko, Department of Remote Sensing and Photogrammetry, Finnish	Session IV: Applications