

Programme

Monday, Oct. 9, Location: WZL

14:00 Registration

Registration remains open through the day.

15:00 Workshop:

Robot Performance Testing with Lasertracker and Active Target Based on ISO 9283

Workshop:

Computed Tomography for Dimensional Measurements and Corrections of Complex Parts

Workshop:

Advanced Geometric Dimensioning, Tolerancing and Fitting Software for Optimized Design and Manufacturing

Parallel workshops offered repeatedly.

Presentation of the e.GO Life

18:00 Poster Session

Fingerfood & Drinks

Tuesday, Oct. 10, Location: Tivoli

08:00 Registration, Morning Coffee

Plenary Opening (R. Schmitt, B. Hughes)

08:30 Metrology as the Fundamental Enabler for Industry 4.0 and the Future of Manufacturing

Ben Adeline (*Insphere Ltd.*)

The Quality Information Framework (QIF) in Digital Manufacturing

Daniel Campbell (*Capvidia*)

09:30 Coffee Break

09:45 Augmented Reality for Feedback of 3D Data in Aerospace Apps

Jim Heley (*A3L Ltd.*)

Supporting Part Inspection with MR Headset (Hololens)

David Canepa Talamas (*University of Bath, LIMA*)

10:45 Exhibition Opening (S. Kyle)

Exhibition remains open through the day.

12:00 Lunch

13:00 Exhibition Time

Espresso

13:30 Smart Metrology for a Production-Integrated SPC Network Structure

André Kreul

On-Machine Inertial Sensors to Determine Machine-Tool Geometric Errors

Gregory Vogl (*National Institute of Standards and Technology*)

14:30 Integrated Measurement Technology for Self-Monitoring Machine Tools

Marcus Queins (*Starrag Technology GmbH*)

High-Precision Dimensional Metrology on Large-Size Rolling Bearings

Stepan Matousek (*Schaeffler Technologies AG & Co. KG*)

15:30 Exhibition Time

Coffee

16:15 Comparing CMMs and Laser Radar

Tom Hedges (*Nikon Metrology, Inc.*)

Flexible Optical Serial Measurement Process in the Car Body Manufacturing

Hanqing Zheng (*Daimler AG*)

17:15 3D Measurement of Jet Engine Compressor Aerofoils on Blisks for Vibration Analysis

Martin Harding (*Rolls-Royce Deutschland Ltd & Co KG*)

Inline Metrology for Advanced Optics Manufacture

Christian Wenzel (*Innolite GmbH*)

Closing of Day 2 (R. Schmitt)

18:15 Exhibition Time

Poster Session

Refreshments

19:00 Dinner

20:00 Networking, Live Music, Open Bar

- 08:00** Morning Coffee
Opening of Day 3 (B. Hughes)
- 08:30** **3D Scanner Based on Frequency Modulated Continuous Wave Laser**
Tatsuo Hariyama (*Hitachi Ltd.*)
New Concept for Accurate Self-Calibrating Multi-Target 3D Metrology
Mike Campbell (*National Physical Laboratory*)
- 09:30** Coffee Break
- 09:45** **Scanner and IR Camera Combination for NDT Measurement of Pipes etc.**
Somayeh Hesabi (*Université Laval*)
Radio Telescope Inspection by Terrestrial Laser Scanner
Christoph Holst (*Rheinische Friedrich-Wilhelms-Universität Bonn*)
- 10:45** **Exhibition Time**
Exhibition remains open through the day.
- 12:00** Lunch
- 13:00** **Exhibition Time**
Espresso
- 13:30** **A Medium Format Camera for High Accuracy Photogrammetry**
Heidi Hastedt (*Jade University of Applied Sciences Oldenburg*)
Traceable On-Machine Measurements of Gas Turbine Parts
Nico Lehmann (*Siemens AG*)
- 14:30** **Adaptive Quality Control Loops for High Precision Components**
Raphael Wagner (*Karlsruhe Institute of Technology*)
ADM Laser Tracking Using Femtosecond Frequency Comb
Wei-hu Zhou (*Chinese Acad. of Sci.*)
- 15:30** **Exhibition Time**
Coffee
- 16:15** **Integrated Information Data Flow for Improved Manufacturing Quality**
Toby Maw (*Manufacturing Technology Centre*)
Standard for Performance Measurement of CT Systems
Michael McCarthy (*Engineering Metrology Solutions Ltd.*)
- 17:15** **Design for Verification and the Use of Metrology within Industry 4.0**
Andy Francis (*GKN Aerospace plc*)
Farewell (B. Hughes, M. Peterrek)
- 18:00** **Exhibition Time**
- 19:00** Shuttling to City Center
- 20:00** Casual Networking
Meeting Point: Domkeller Aachen
Outlook for 3DMC 2018