

## 3DMC - Timetable

We want to offer you the most attractive programme possible. The presentation sessions are not completely filled, yet. Besides, some slight changes will still be made.

### Tuesday, 22<sup>nd</sup> November 2016

- 16:00 Registration opens
- 16:45 Practical Workshop 1 – Laser Tracker- calibration strategies and innovative applications
- 17:45 Practical Workshop 2 – Basics of production and measurement of gear components
- 19:00 Icebreaker and Poster Session 1

### Wednesday, 23<sup>rd</sup> November 2016

- 08:30 Registration opens
- 09:00 Greetings from host, Prof. Robert Schmitt  
Greetings from conference chair, Prof. Ben Hughes
- 09:15 Keynote Speech: Large Scale Metrology – A New Update  
Prof. Schmitt (RWTH Aachen University)
- 10:00 Exhibitor presentations (90 seconds each, 2 slides maximum)
- 10:20 Coffee Break and Exhibition
- 10:50 **Presentation Session 1** (20 minutes each including questions)
- Alignment of Radio Telescopes with Photogrammetry  
Heiko Paluszek (sigma3D)
  - Evaluating the Measurement Process  
Geraint W. Jones (National Physical Laboratory, NPL)
  - Intrinsic refractivity compensation for high-accuracy distance metrology in manufacturing environments  
Karl Meiners-Hagen (Physikalisch-Technische-Bundesanstalt PTB)
  - Development of an Online Knowledge Base for 3D Metrology  
Stephen Kyle (University College London, UCL)
  - 3D Metrology as Enabler for Automated Assembly  
Raimund Loser (Hexagon Manufacturing Intelligence)

- 12:30 Lunch and Exhibition
- 13:30 **Presentation Session 2**  
Industrial User Story: In-Line Laser Radar  
Alexander Schönberg (FFT Production Systems)
- Photogrammetric measurement of A350 Brackets B Riggings  
Jean-Christophe Bry (Airbus Operations SAS)
- Build Confidence in Additive Manufacturing  
Tom Farr (Insphere)
- Laser Metrology for On-Machine-Measurements  
Heinrich Schwenke (Etalon)
- Evaluating 3D vision sensor performance challenging surfaces  
Peter Kinnell (Loughborough University)
- 15:15 Coffee Break and Exhibition
- 16:15 **Presentation Session 3**  
Inline measurement of the flatness of steel strip using a photo-mixing 3D camera  
Frenk van den Berg (Tata Steel Netherlands)
- Measurement of large steel structures in ship-building  
Michaela Westendorf (Meyer Werft)
- Modern optimization of production processes through coordinate metrology at Rolls Royce  
Martin Harding (Rolls Royce Germany)
- The Open Source Software Package UNITED – Controlling, Measuring and Analysing  
Cornelia Eschelbach (Frankfurt University of Applied Sciences)
- Investigation and modelling of rolling shutter distortions on photogrammetric single- and multi-image applications  
(Thomas Luhmann, Jade University)
- 18:00 Networking Reception and Poster Session 2
- 19:30 Shuttle to the City Centre

## Thursday, 24<sup>th</sup> November 2016

- 08:30            Coffee and Exhibition
- 09:00            **Presentation Session 4**  
Demonstration and evaluation of a measurement-assisted shipbuilding assembly process  
Maurício de Campos Porath (Federal University of Santa Catarina, Brazil)
- Metrological and analytical determination of capabilities in manufacturing  
Andre Kreul (GE Power)
- Process optimization in automotive design centres  
Andreas Rietdorf (AICON 3D Systems)
- Mosaicing for automated pipe scanning  
Rahul Summan (University of Strathclyde)
- New advances in metrology of large parts  
Eneko Gomez-Acedo (IK4 Tekniker)
- 10:40            Coffee Break and Exhibition
- 11:00            **Presentation Session 5**  
In-Process Inspection of Large High Value Components on a Machine Tool Platform  
Miguel Garcia Lopez-Astilleros (Nuclear AMRC)
- Measurement of large gears for wind turbines  
(Harald Bosse, PTB Braunschweig)
- Online preventative non-destructive evaluation in automated fibre placement  
Dr. S. Shroff (Delft University of Technology)
- Segmentation for 3D metrology by Computerized Tomography  
Giovanni Moroni (Politecnico di Milani, Milan, Italy)
- Accelerated technology development - 3D metrology for large gas turbine components  
Sebastian Dressen (Siemens AG Power and Gas)
- 12:40            Concluding remarks, Prof. Ben Hughes
- 12:45            Lunch and Exhibition
- 15:30            Exhibition Closes

We are delighted to bring together internationally leading expertise to an open forum for presentations and discussions focused on 3D metrology.

## **Posters**

NPL OPTIMUM – A high accuracy, traceable coordinate measurement system

Mike Campbell (NPL)

Optimierte Messverfahren von Ventilsitz und -führung

Renishaw

3D CMM metrology in real application – case study

Vidosav D. MAJSTOROVIĆ (Laboratory for Production Metrology Belgrade)

Kinematic Reference for Laser Trackers

Thomas Ulrich (Geodetic Institute Karlsruhe)

3D Label-Free Super Resolution Imaging

Ivan Kassamakov (University Helsinki)

New innovative approaches to in-process quality assurance

Christian Janki (Alicona Imaging GmbH)

Trends and Advances for Visualization Systems in Aviation Industry

(Schölly)

Laser triangulation profilometer for inner surface inspection of 305 mm (12”) nominal diameter

Pedro Buschinelle (University Florionopolis)

Interlaboratory comparisons for calibration of Coordinate Measuring Machines

Marcin Krawczyk (Cracow University)

Measurement Strategy Impact on Dimensional Inspection by Portable Measuring Systems

OpenIndy - The first Open Source Software for Industrial Measurement

Heiko Paluszek (sigma3D)

Refraction correction

Steve Kyle (UCL)