



1st 3D Metrology Conference – 3DMC

November 22-24, 2016
Aachen



Supported by:



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The 3DMC is dedicated to the application and development of 3D measurement technology for industrial, cultural and scientific purposes. It was founded by leading ex-committee members of the Large Volume Metrology Conference (LVMC) in order to bring a similar event to a wider audience outside the UK. The event is aimed at end users of 3D metrology systems, equipment and software suppliers, service providers, researchers and procurement and quality managers.

These target audiences operate in the aerospace, automotive, power generation, marine, off-shore, built environment, cultural heritage and virtual reality sectors.

The 3DMC is a conference to share common problems, requirements, experiences and solution approaches to get the most out of using established and new 3D metrology systems.



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Timetable

Tuesday, 22nd November 2016

- 04.00 pm Welcome Reception and Registration
- 04.45 pm Practical Workshops (Choice)
- 07.00 pm Icebreaker and Poster Session 1

Wednesday, 23rd November 2016

- 08.30 am Registration and Welcome
- 09.00 am Greetings from Chairman and Host
- 09.10 am Keynote Speech
- 09.45 am Exhibitors'
- 10.05 am Coffee Break and Exhibition
- 10.50 pm Presentation Session 1
 - 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
Florian Pollinger, 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 pm Lunch and Exhibition
- 02.00 pm 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
 - Laser Metrology for On-Machine-Measurements
Heinrich Schwenke, Etalon
 - Evaluating 3D vision sensor performance challenging surfaces
Peter Kinnell, Loughborough University
- 03.45 pm Coffee Break and Exhibition
- 04.30 pm Presentation Session 3
 - Inline measurement of the flatness of steel strip using a photo-mixing 3D camera
Frenk van den Berg, Tata Steel Netherlands
 - Different kinds of industrial measurements at MEYER WERFT shipyards
Michaela Westendorf, Meyer Werft
 - Modern optimization of production processes through coordinate metrology at Rolls-Royce
Martin Harding, Rolls-Royce Deutschland



Are you interested in visiting the conference as a delegate or exhibitor?
Please visit our website: www.3dmc.events

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The Open Source Software Package UNIT D –
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
Robin Rofallski, Jade University

07.30 pm Shuttle to City Centre

18:15 pm Networking Reception and Poster Session 2

Thursday, 24th November 2016

08.30 am Coffee Break and Exhibition

09.00 am 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 am Coffee Break and Exhibition

11.15 am Presentation Session 5

In-Process Inspection of Large High Value Components on a
Machine Tool Platform

Miguel Garcia Lopez-Astilleros, Nuclear AMRC

Traceable measurements of large gears for wind energy systems

Martin Stein, Felix Balzer, PTB, Hexagon

Online preventative non-destructive evaluation in automated
fibre placement

Dr. Sonell 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

12.55 pm Concluding remarks

03.30 pm Exhibition closes

More Information

The conference presentation language is English but this is an international event which welcomes all languages.

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Conference Pricing

Conference Delegate Pass (€ 350 incl. taxes)

Exhibition Stand (€ 2000 excl. taxes)

Please sign up to the conference on our website www.3dmc.events.

If you have any questions or if you are interested in an exhibition stand, please contact us.

Organising Committee

- **Prof. Ben Hughes (Chairman)**
National Physical Laboratory (NPL)
- **Prof. Robert Schmitt**
Director, Laboratory for Machine Tools and Production Engineering (WZL)
- **Stephen Kyle**
3DIMPact Group, University College London (UCL)
- **Dr. Harald Bosse**
Physikalisch-Technische Bundesanstalt PTB
- **Martin Peterek**
Laboratory for Machine Tools and Production Engineering (WZL)
- **Markus Ohlenforst**
Laboratory for Machine Tools and Production Engineering (WZL)

Excerpt of Upcoming Exhibitors



Organisation

Date

November 22-24, 2016

Location

Laboratory of Machine Tools
and Production Engineering
Steinbachstraße 19
52074 Aachen

Contact

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Accommodation

Accommodation arrangements can be made at:

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