

March **21** Marzo

March **22** Marzo

March **23** Marzo

08:30 - 09:00 **Registration + Coffee**

09:00 - 11:30 **TUTORIAL 1**

Zero Defects Manufacturing
Toni Ventura-Traveset / Datapixel (Spain)

11:30 - 12:15 **Coffee Break + MetroLab Innovalia Metrology**

12:15 - 12:30 **OPENING**

12:30 - 13:30 **KEYNOTE 1**

New Business Models to access innovation - Future Metrology tendencies
Aravind Govindan / ANSR (India)

13:30 - 15:00 **Lunch · Jauregia Restaurant**

15:00 - 17:00 **TRACK 1 · Metrology Solutions**

15:00 - 15:30 Dynamic alignments and calibration of linear axes
Dr. Denis Dontsov / SIOS Meßtechnik GmbH (Germany)

15:30 - 16:00 Online-validation of analysis algorithms using TraCIM
Daniel Heisselmann / PTB (Germany)

16:00 - 16:30 Flexible, automated dimensional inspection solutions for near-line and in-line metrology applications
Mathias Müller / Creaform (Canada)

16:30 - 17:00 Towards using Close-Range Photogrammetry for in-line measurements
Samanta Piano / University of Nottingham (United Kingdom)

17:00 - 17:30 **SPECIAL LECTURE**

Fraudulent Practices in the software controlled measuring instruments and its prevention
Dr. Lalit Harode / Legal Metrology Organization, Government of Maharashtra (India)

17:30 - 18:30 **TRACK 2 · Industrial Metrology Solutions**

17:30 - 18:00 Towards the fully automatic design and control of measurement systems
Boris Bogaerts + Bart Ribbens / University of Antwerp (Belgium)

18:00 - 18:30 Inspection enabling human-robot collaboration
Philip Hewitt + Lars Baath / Autodesk (United Kingdom)

20:30 - 23:00 **Conference Banquet · Sociedad Bilbaína**

08:30 - 09:00 **Registration**

09:00 - 11:00 **TUTORIAL 2**

Machining and Metrology
Ainhoa Etxabari / Innovalia Metrology (Spain)

11:00 - 11:45 **Coffee Break + MetroLab Creaform + CDTI**

11:45 - 12:45 **TRACK 3 · QIF and Software**

11:45 - 12:15 The QIF Ecosystem of Manufacturing Software
Daniel Campbell / Capvidia (United States)

12:15 - 12:45 Point cloud processing with hand-crafted and learned 3D descriptors
Federico Tombari / Technische Universität München (TUM) (Germany)

12:45 - 13:45 **KEYNOTE 2**

Computed Tomography as NDT Technique in Additive Manufacturing
Jens Luebbehusen / General Electric (Germany)

13:45 - 15:00 **Lunch · Jauregia Restaurant**



15:00 - 16:00 **TRACK 4 · Industrial Metrology Solutions**

15:00 - 15:30 Calibration of coordinate measuring machines using laser tracer technology
Unai Mutilba / Tekniker (Spain)

15:30 - 16:00 Effect of Humidity on dimensional measurements of injection moulded components
Lorenzo Carli / Novo Nordisk (Denmark)

16:00 - 17:00 **TRACK 5 · Instrumentation and Calibration**

16:00 - 16:30 Inestability assessment of the measuring instruments applied in calibration
Amanzhol Abiyev / Carlsberg Kazakhstan Ltd. (Carlsberg Group) (Kazakhstan)

16:30 - 17:00 What should we know about the use of a calibration certificate of an instrument?
Adriana Valcu / Regional Directorate of legal Metrology, Bucharest (Romania)

17:00 - 18:00 **ROUND TABLE + CLOSING**

· **Metromeet 4.0 and Wine** ·



Metromeet is a unique event that brings together the leaders in the field with the goal of sharing the latest developments on digital, optical, metrology, calibration and automation.

This edition of Metromeet will have an **extra day focused on the role of Metrology in the path towards Industry 4.0**. On **March 23rd**, Metromeet will give you the opportunity to discover some of the leading projects in Europe and some real applications and metrology developments for non-metal parts while enjoying the experience of being in a true Spanish Winery.

Metromeet es un evento único que atrae y reúne a los líderes mundiales en este sector con el fin de presentar los últimos desarrollos digitales y ópticos, software, estándares de calibración y automatización.

En esta edición de Metromeet, hemos añadido una nueva **jornada especial dedicada a la importancia de la Metrología en el camino hacia la Industria 4.0**. Durante la mañana del **viernes 23 de marzo** los asistentes podrán descubrir los más importantes proyectos Europeos y aplicaciones y desarrollos metroológicos para piezas no metálicas. Todo ello, en una auténtica bodega de vino española.

08:30 **Departure from Euskalduna Conference Centre**

09:45 - 10:15 **Arrival at Winery + Welcome**

10:15 - 11:45 **Metrology 4.0**

10:15 - 10:45 A Cyber Physical Quality Test System for White Good Industry
Claudio Turrin / Whirpool (Italy)

10:45 - 11:15 CAxMan Project: Computer aided technology for additive manufacturing
Jean Claude Morel / Missler Software (France)

11:15 - 11:45 Boost4.0: Towards an European Data Space
Silvia de la Maza / Innovalia Association (Spain)

11:45 - 12:15 **Coffee Break**

12:15 - 13:15 **Success Stories**

12:00 - 12:45 Quality improvement in production of plastic components along the value chain
Jens Hansen / Zeiss (Germany)

12:45 - 13:15 3D High speed technology for plastic parts
Special Guest / Innovalia Metrology (Spain)

13:30 - 13:40 **CLOSING**

13:40 - 16:30 **Visit to the Winery + Lunch**

16:30 - 18:00 **Journey back to Bilbao**