10 April / Abril

08:30 - 09:00	Registration + Coffee
09:00 - 09:10	OPENING
09:10 - 11:30	KEYNOTE 1

The automation of metrology, a unique opportunity towards agile manufacturing
Toni Ventura-Traveset | Datapixel, Spain

| 11:30 - 12:00 | Coffee Break + Metrolab Innovalia Metrology |
| 12:00 - 13:30 | TRACK 1 · Digital Transformation |

| 12:00 - 12:45 | Cognitive Digital Twin **Dimitris Kiritsis | University of Oslo, Norway** |
| 12:45 - 13:30 | MDO-E manufacturing digital ontology editor. A new approach to integrate Material, Process, Function and Quality in the Mfg area **Claudio Turrin | Sam Software, Italy** |

| 13:30 - 15:00 | Lunch |
| 15:00 - 17:15 | TRACK 2 · Advances in Calibration |

| 15:00 - 16:30 | New Dimensions in Metrology: Digital Calibration Certificates and Dynamic Vision Imaging **Thomas Engel | Siemens AG, Germany** |
| 16:30 - 17:15 | Determination of the error approximation function in the calibration of digital measuring instruments used in metrology of length **Adriana Vàlcu | Romanian Measurement Society (RMS), Romania** **Adela Călin | University of Medicine and Pharmacy Timisoara, Romania** |

| 17:15 - 18:00 | SPECIAL SESSION |

Explore3DM: Content generation as it supports the outreach element of the UK's Royal Academy of Engineering
Stephen Kyle | University College London (UCL), UK

| 20:30 - 23:00 | Conference Banquet · Sociedad Bilbaina |

11 April / Abril

| 08:30 - 09:00 | Registration |
| 09:00 - 11:00 | TUTORIAL |

Verification of Machine Tools: systems, approaches and some mathematical modelling
José A. Yagüe | Universidad de Zaragoza, Spain

| 11:00 - 11:30 | Coffee Break + Metrolab Innovalia Metrology |
| 11:30 - 13:45 | TRACK 3 · Industrial Metrology Applications |

11:30 - 12:15	5 axis on machine metrology for metal AM, by means of contact and Optical 3d scanning **Ainhoa Etxabarri	Innovalia Metrology, Spain**
12:15 - 13:00	Wind Farm Jacket Fitting Automation **Andrea Pellegrino	GEATOP srl, Italy**
13:00 - 13:45	Sensitivity analysis of structured light systems based on VDI/VDE 2634-2 and ISO 10360-13 Performance Evaluation Tests **Octavio Icasio	Centro Nacional de Metrología (CENAM), Mexico**

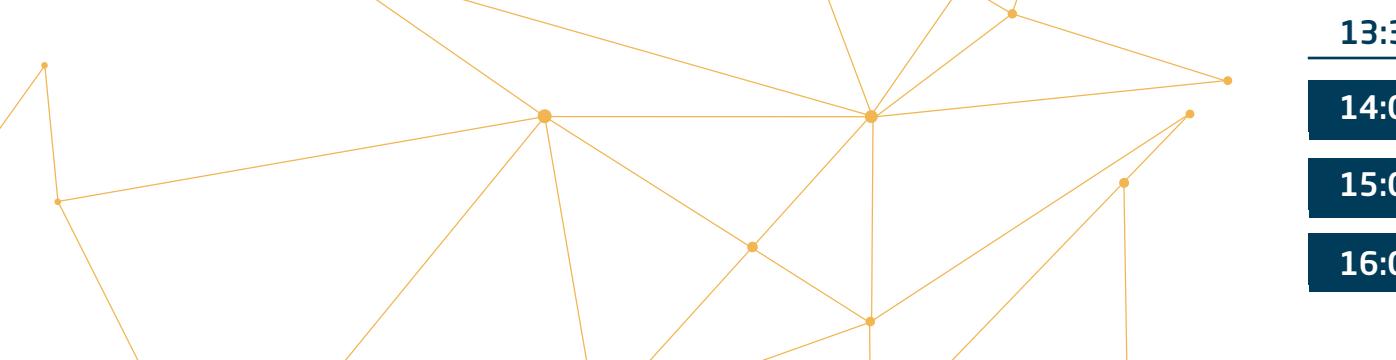| 13:45 - 15:30 | Lunch |
| 15:30 - 17:00 | KEYNOTE 2 |

The ISO 10360-13 Standard and its Implementation
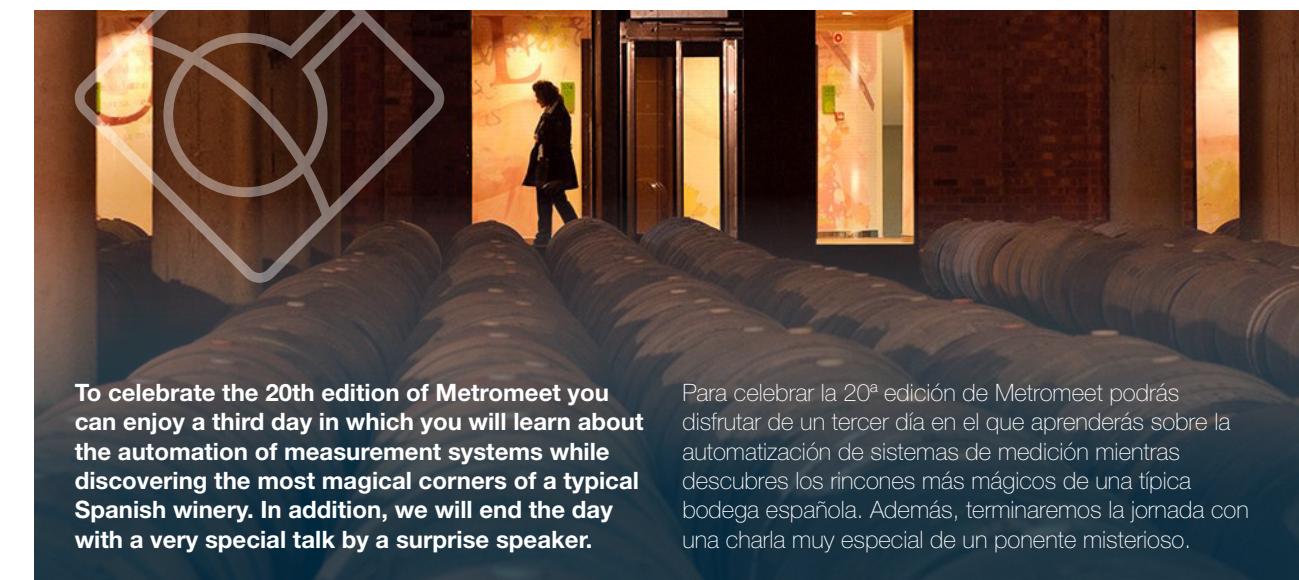**Edward Morse | University of North Carolina Charlotte (UNCC), USA**

| 17:00 - 18:00 | CLOSING UP · ROUND TABLE |

*The organization reserves the right to reschedule, add or cancel presentations.
*La organización se reserva el derecho a modificar horarios, añadir o cancelar presentaciones.

Metromeet and Wine — 12 April / Abril

To celebrate the 20th edition of Metromeet you can enjoy a third day in which you will learn about the automation of measurement systems while discovering the most magical corners of a typical Spanish winery. In addition, we will end the day with a very special talk by a surprise speaker.

Para celebrar la 20ª edición de Metromeet podrás disfrutar de un tercer día en el que aprenderás sobre la automatización de sistemas de medición mientras descubres los rincones más mágicos de una típica bodega española. Además, terminaremos la jornada con una charla muy especial de un ponente misterioso.

08:15	Departure from Euskalduna Conference Centre
08:15 - 10:00	Trip to the Eguren Ugarte winery + Welcome
10:00 - 11:00	TRACK 4 · Metrology Solutions and Automation

| 10:00 - 10:30 | TACCO – Fast & Accurate Zero Defect Part Set-Up by Photogrammetry **Pablo Puerto | IDEKO, Spain** |
| 10:30 - 11:00 | An automated multi-system demonstrator for advanced optical measurement **Samanta Piano | Nottingham University, UK** |

| 11:00 - 11:30 | Coffee Break |
| 11:30 - 13:00 | TRACK 5 · Advances in Standards / Uncertainty Analysis |

| 11:30 - 12:00 | Towards task-specific uncertainty assessment for imaging confocal microscopes **Jesús Paredes | Fundación Tekniker, Spain** |
| 12:30 - 13:00 | Calibration, verification and test uncertainty **Alessandro Balsamo | Istituto Nazionale di Ricerca Metrologica (INRIM), Italy** |

13:00 - 13:30	SURPRISE SPEAKER
13:30 - 14:00	CLOSING
14:00 - 15:00	Winery Tour
15:00 - 16:00	Lunch
16:00 - 17:45	Journey back to Bilbao