

Locations

 **TEKNIKER - TEK**
C/ Iñaki Goenaga, 5
20600 Eibar

 **IDEKO - IDK**
Arriaga kalea, 2
20870 Elgoibar

 **ICE BREAKER
EVENT**
La Ribera Bilbao
Erribera kalea, 20
48005 Bilbao

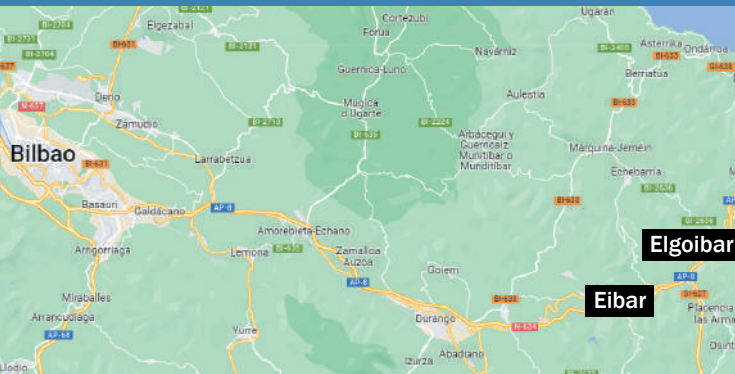
 **CONFERENCE
DINNER**
Bistró Guggenheim
Abandoibarra Etorb., 2
48009 Bilbao

WiFi

WiFi will be available. Login details will be given in the venue.

Transfer

At 8:30 the bus departures from:
HOTEL ABANDO.
Colón de Larreategui, 9
48001 Bilbao



Contacts

If you have any questions or need assistance:
help@3dmc.events

3DMC committee

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TEKNIKER

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IDEKO

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Organized by:



MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE



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& TECHNOLOGY ALLIANCE



8th 3DMC 2023

Automation
Digitization
Data Intelligence

Basque Country, Spain
September 26 - 28





Tuesday, Sep 26, BILBAO

- 18:00 - 18:30 Registration
- 18:30 - 19:30 Poster Session
- 19:30 Ice Breaker Event. La Ribera Bilbao

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|---|--|
| D. Lao UNI USTB | A 3D laser projection system based on laser vision hybrid localization and galvanometer scanning |
| H. Yan PTB | Two-colour self-tracking interferometer for large volume calibrations |
| G. Hair LOUGHBOROUGH U. | Low-cost cobot integrated 3D scanning |
| W. Guo LOUGHBOROUGH U. | Simulation-driven optimisation of camera placement for photogrammetry in complex workspaces |
| D. G. Artal UNIZAR | Effect of metal artifacts in polymer macro dimensional 3D evaluation by XCT in multi material parts |
| C. T. Liu (Jean) TTSB | 3D metrology in transportation safety investigation |
| J. Guillory CNAM | Multilateration system using glass spheres to determine station positions at better than 50 µm |
| C. Pottier NPL | Identifying the gaps in the standards use to quantify large volume metrology systems performance for industrial robot applications |
| Z. M. Zhang NPL | A novel data fusion pipeline for point cloud registration |
| L. Quiles WOOPTIX | Wavefront phase sensors characterization by using a piezoelectric deformable mirror with nanometric steps |
| E. Callaghan SPIRIT AEROSYSTEMS | Automation assembly enablement using data driven in-process metrology |
| A. Roberts ELECTROIMPACT | Improving robot accuracy for a large working volume using edge-deployed A.I. |
| G. González UPV / EHU | Accuracy evaluation of three point cloud downsampling criteria |
| A. Morquecho SARIKI | Automated inspection of metal parts manufacturing processes through cognitive vision |



Wednesday, Sep 27, TEKNIKER

- 8:30 BIO Bus Transfer
- 9:30 TEK Opening address & Welcome by host
- 10:15 Technical Talks
- J. Yagüe**
UNIZAR Precision design principles. Does the size matter? A methodological approach
- I. Biro**
HELIOTIS Measuring functionally critical nanometre-scale surface deflections
- C. Gill**
LOUGHBOROUGH U. An in-line measurement strategy for quality monitoring in 3D concrete printing
- 11:45 Exhibition
- 12:30 Lunch
- 13:15 Exhibition & Coffee
- 14:00 Technical Talks
- B. Sargeant**
High-speed 6DOF tool monitoring with a low-cost photogrammetric system
- P. Puerto**
C. Richards
UCL - IDEKO
- R. James**
AMRC WALES Application of NPL's OPTIMUM system
- V. C. Nardelli**
SENAIRS 3D measurement using monocular camera motion for inline inspection
- 15:15 Exhibition, Lab Tour & Coffee
- 16:30 Technical Talks
- D. Heißelmann**
PTB Traceability of dimensional measurements of large workpieces
- B. A. C. Oumar**
TEKNIKER Metrological traceability for an 3D robotic scanning system's digital twin
- 18:00 Bus Transfer
- 20:00 Conference Dinner
Bistró Guggenheim



Thursday, Sep 28, IDEKO

- 8:30 BIO Bus Transfer
- 9:30 IDK Opening address & Welcome by host
- 10:15 Technical Talks
- P. Richardson**
C. F. Hernández
AIRBUS Airbus research and example: Automatic frame positioning through mould marks
- S. Royo**
UPC High resolution lidar with embedded data fusion for all-weather robotic vehicles
- 12:30 Lunch
- 13:15 Exhibition & Coffee
- 13:45 Technical Talks
- D. Martin**
ESRF Alignment for the ESRF extremely brilliant source
- F. C. Gonzalo**
METROMECAÍNICA Large volume metrology at ITER project
- M. Islam**
NRC Quality engineering for Canadian hydrogen observatory for radio transient detector antennas
- 15:15 Factory Tour
- 16:30 Technical Talks
- J. L. Grzesiak**
RENISHAW Improve quality and maintainability of the geometrical set up of robot cells using ball bar devices and probing
- I. Inziarte**
ALDATHINK Safe, precise, and cost-effective robot for machining
- 17:15 Closing address and prize giving
- 18:00 Bus Transfer
- 20:00 End of 3DMC
Pintxos in Bilbao