

8th International Workshop Analysis of Dynamic Measurements



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PROGRAM

Monday 5th - "Background and Methods"

<i>Registration (and lunch, if booked)</i>	13:00 – 14:00
<i>INRiM Management welcome</i>	14:00 – 14:05
<i>Workshop Coordinators introduction</i>	14:05 – 14:10
Background (Chair: <u>T. Esward</u>)	
- <u>C. Bartoli</u> (LNE, Laboratoire National de Métrologie et d'Essais): <i>EMRP IND09 - State of progress of dynamic calibration of force, torque and pressure sensors including signal conditioning equipment</i>	14:10 – 14:40
- <u>K. H. Ruhm</u> (ETH, Swiss Federal Institute of Technology): <i>Dynamic Systems? – Questions and Answers</i>	14:40 – 15:10

Coffee break (15:10 – 15:30)

Methods (Chair: S. Eichstädt)

- M. Wegener and E. Schnieder (Technische Universität Braunschweig): *Enhancement of the GUM method to dynamical systems: A straightforward approach* **15:30 – 16:00**
- B. Arendackà, A. Täubner and C. Elster (PTB, Physikalisch-Technische Bundesanstalt): *Extracting information from a reproducibility experiment* **16:00 – 16:30**
- E. Garcia and T. Hausotte (Institute Manufacturing Metrology, University Erlangen-Nuremberg): *Kalman and particle filter for dynamic coordinate measurements* **16:30 – 17:00**

Social dinner (20:00)

Tuesday 6th - “Applications”

Navigation satellite systems and thermal properties (Chair: N. Fischer)

- F. Grasso Toro (Technische Universität Braunschweig): *Basic intelligent models for validation of dynamic GNSS measurements* **9:00 – 9:30**
- I. Sesia, G. Signorile, E. Cantoni, G. Fantino, P. Tavella (INRIM, Istituto Nazionale di Ricerca Metrologica) and A. Cernigliaro (AizoOn): *An efficient and configurable preprocessing to improve the robustness of time series analysis* **9:30 – 10:00**
- L. Rosso, V. Fericola (INRIM, Istituto Nazionale di Ricerca Metrologica) and S. Tabandeh (Politecnico di Torino): *Thermal transient studies applied to surface temperature metrology of engineered surfaces* **10:00 – 10:30**

Coffee break (10:30 – 11:00)

Force measurements (Chair: C. Bartoli)

- L. Coquelin, N. Fischer, A-F. Obaton (LNE, Laboratoire National de Métrologie et d'Essais): *Parameter identification for dynamic calibration of force transducers using sinusoidal excitations and assessment of the associated uncertainty* **11:00 – 11:30**
- M. Kobusch, S. Eichstädt, L. Klaus, T. Bruns (PTB, Physikalisch-Technische Bundesanstalt): *Analysis of shock force measurements for the model-based dynamic calibration* **11:30 – 12:00**
- C. Schlegel (PTB, Physikalisch-Technische Bundesanstalt): *Primary and secondary periodic calibration of force transducers* **12:00 – 12:30**
- N. Medina and J. Robles (CEM, Centro Español de Metrología): *Dynamic calibration of force transducers at CEM* **12:30 – 13:00**

Lunch (13:00 – 14:00)

Pressure measurements (Chair: T. Bruns)

- A. Lakka, S. Saxholm (MIKES, Mittatekniikan Keskus), A. Malengo, F. Pennecchi (INRIM, Istituto Nazionale di Ricerca Metrologica): *Drop-weight system for dynamic pressure calibration* **14:00 – 14:30**
- G. S. Sariyerli and Y. Durgut (TUBITAK UME, Ulusal Metroloji Enstitüsü): *Measurement method for dynamic pressure sensors in Tubitak UME* **14:30 – 15:00**
- M. I. Schiefer (The Modal Shop Incorporated): *The need for a dynamic pressure calibration standard* **15:00 – 15:30**

INRIM President closure (15:30)