



## 9th International Workshop on Analysis of Dynamic Measurements



296th PTB-Seminar / 9 – 10 November 2016

**Venue** Physikalisch-Technische Bundesanstalt (PTB)  
Hermann-von-Helmholtz-Building, Lecture Hall (HvH)  
Abbestr. 2-12, 10587 Berlin, Germany

# PROGRAMME

## Day 1 – November 9<sup>th</sup>

12:30	Registration and coffee
13:10	Welcome and introduction
13:15	“Dynamic operation of sensors and sensing of dynamic processes: similarities, differences and challenges” (Andreas Schütze, University of Saarland)
<b>Session 1 – Input estimation methods</b>	
14:15	“A Two-Stage Bayesian Approach for the Analysis of Multispectral Camera Measurements” (Marcel Dierl, PTB)
14:45	“Data-driven weight measurements” (Gustavo Quintana-Carapia)
15:15	“PyDynamic: A repository for software for the analysis of dynamic measurements” (Ian Smith, NPL)
<b>Coffee break</b>	
<b>Session 2 – Mechanical quantities I</b>	
16:00	“Analysis of impact hammer calibration measurements” (Michael Kobusch, PTB)
16:30	“A Dynamic Force Transfer Standard” (Nicholas Vlajic, NIST)
17:00	“Needs and contribution of an industry collaborator for a better determination of dynamic calibration measurement uncertainty” (André Schäfer, HBM)
<b>18:00 Conference Dinner (HvH building)</b>	

## Day 2 – November 10<sup>th</sup>

08:15	“Measuring and modeling dynamical systems in the presence of nonlinear distortions” (Johan Schoukens, Vrije Universiteit Brussel)
<b>Session 3 – Mechanical quantities II</b>	
09:15	“Development of a dynamic standard to evaluate the metrological performance of absolute pressure measurement systems” (Alberto Díaz Tey, Univ. Costa Rica)
09:45	“Dynamic Calibration of Torque Transducers – The Angular Acceleration Ramp Method” (Renato Machado, INMETRO)
10:15	“Using a triaxial acceleration calibration device for seismometer calibration” (Leonard Klaus, PTB)
<b>Posters &amp; Coffee</b>	
<b>Session 4 – Electrical quantities and temperature</b>	
11:45	“Time-domain laser-based characterization of high-speed photodetectors” (Paul Struszewski, PTB)
12:15	“Uncertainty evaluation for determination of electrical grid characteristics using the Nodal Load Observer” (Natallia Makarava, PTB)
12:45	“Research on Quasi- $\delta$ temperature pulse dynamic calibration technology of thermocouple sensor” (Yanfeng Li, North University of China)
<b>13:15 Lunch (HvH building)</b>	
<b>14:30 – 16:30 Round-table discussion on EMPiR 2017 “Call for Industry”</b>	

## Posters

Durgut, Yasin	Dynamic Pressure Measurement System at UME
Högström, Richard	Primary standard for dynamic pressures in the range 20 MPa to 500 MPa
Lin, Guosong	A dynamic state-estimation method for LV and MV electrical grids
Nabielec, Jerzy	Study on sensitivity to leakage currents of the voltage divider with autocalibration
Oğuzhan Küçük	Applications and calibration of pencil probes
Stefanescu, Dan	Main classes of electromechanical transducers – Electrodynamical vs. Electromagnetical
Vasilevskyi, Alexandre	Evaluation of uncertainty of the results of dynamic measurements, conditioned the limited properties used the measuring instrument
Warsza, Zygmunt	Uncertainty of identification parameters of the dynamic object by Monte Carlo method
Weber, Martin	Primary complex-valued hydrophone calibration using broadband pulse excitation
Zhang, Zhijie	Research on dynamic compensation technology of thermocouple sensor