

## 238th PTB Seminar Analysis of Dynamic Measurements – 2007-11-06

## Preliminary Program

Organizers Venue:	M Bär (PTB), C Elster (PTB), K-D Sommer (PTB) Lecture Hall, Hermann-von-Helmholtz Bau, Physikalisch-Technische Bundesanstalt (PTB), Berlin
10:30	Opening: M Bär (PTB, Germany)
<b>Session 1:</b> 10:45	Methods and applications (Chair: K-D Sommer) H Kantz (MPIPKS Dresden, Germany) Time series methods beyond second order statistics for data classification and modelling
11:15	T J Esward (NPL, UK) Analysis of dynamic measurements: lessons from acoustical metrology
11:45	R Kumme (PTB, Germany) Principles and facilities for traceable measurements of static, continuous and dynamic forces
12:15	S Downes and A Knott (NPL, UK) Dynamic pressure measurement in automotive engines
12:45 – 14:00	Lunch
<b>Session 2:</b> 14:00	<b>Measurement Uncertainty</b> (Chair: M Bär) J P Hessling (SP, Sweden) Dynamic metrology – support for the user
14:30	F Sawo, U Hanebeck (Universität Karlsruhe (TH), Germany) and K-D Sommer (PTB, Germany) A Bayesian approach to consistently describing and analysing steady-state, dynamic and distributed parametric measurement systems
15:00	K-D Sommer (PTB, Germany) On modelling of measurement-signal processing for uncertainty analysis
15:30	C Elster, T Bruns and A Link (PTB, Germany) Analysis of dynamic measurements using a second-order model
16:00 – 16:30	Break
<b>Session 3:</b> 16:30	<b>Calibration</b> (Chair: C Elster) P Clarkson (NPL, UK) Dynamic electrical measurements for power quality calibrations
17:00	T Bruns, M Kobusch and E Franke (PTB, Germany) Challenges in practical shock calibration
17:30	A Link, T Bruns and C Elster (PTB, Germany) Towards a new standard for the dynamic calibration of acceleration transducers
18:00	Closing