

International Workshop on Spectrometric Gas Thermometry

09:00	Session 1: Metrology for Environment at PTB, EURAMET and CIPM (chair: Judith Krakowski)	
	- Welcome and introduction on PTB	Bernd Güttler PTB
9:20	- Innovation Cluster for Environment and Climate	Olav Werhahn PTB
9:40	- Activities at CIPM Sectorial Task Group on Climate Change and Environment	Dolores del Campo Maldonado CEM
10:00	- 22IEM03 PriSpecTemp Project	Consortium
10:30	- Pressure dependent line intensity and continuum absorption for pure CO ₂	Manfred Birk DLR
10:45	<i>[Coffee Break]</i>	
11:00	Session 2: Contact thermometry for air/gas: State of the art, challenges and opportunities (chair: Kianoosh Hadidi)	
	- EURAMET TC project Air Temperature Metrology (ATM)	Åge Andreas Falnes Olsen JV
11:20	- EMPIR project 19SIP06 COAT	Carmen Garcia Izquierdo CEM
11:40	- Overview of EURAMET TC-T activities	Åge on behalf of TC-T Chair Steffen Rudtsch JV/PTB
12:00	<i>[Lunch Break]</i>	
13:00	Session 3: Recent advances in spectrometric temperature methods (chair: Aleksandra Kyuberis)	
	- Precision spectroscopy at USTC: H ₂ , CO, CO ₂ and CH ₄	Yan Tan USTC
13:30	- Doppler-width gas thermometry: Current status and future perspectives	Livio Gianfrani Uni Campania
14:00	- Ab initio line data of CO ₂ , CO, NH ₃ , N ₂ O, O ₃ , HCl, HF	Oleg L. Polyansky UCL
14:30	<i>[Coffee Break]</i>	
14:45	Session 4: Applications of spectroscopic thermometry (chair: Gang Li / Jeremias Seppä)	
15:10	- HITRAN & HITEMP molecular database	Robert Hargreaves Harvard CfA
15:30	- NASA's OCO-2 satellite mission and O ₂ A-band spectroscopy	Brian Drouin NASA JPL
16:00	- Technical challenges involving high-fidelity spectroscopic measurements of line shapes and peak areas	Joseph T. Hodges NIST
16:20	- Laser spectroscopy based ultra-fast traceable dynamic quantities (<i>p, T, mole fraction</i>) measurements	Zhechao Qu PTB
16:40	- Remote sensing of air temperature using infrared satellite measurements	Jeremy J. Harrison NCEO-UoL
17:10	- Super-Lorentzian effects for selected molecules	Ha Tran CNRS-LMD
	<i>[end of workshop]</i>	

[Evening program: conference dinner (Judith Krakowski)]

