

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	- Introduction to the European Metrology Network for Climate and Ocean Observation	Steffen Seitz PTB
10:45	<i>[Coffee Break]</i>	
11:00	Session 2: Contact thermometry for air/gas: State of the art, challenges and opportunities (chair: TBD)	
	- 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: TBD)	
	- Activities at USTC precision spectroscopy lab	Shui-ming Hu USTC
13:30	- Redefinition of Kelvin and spectroscopic thermometry	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: TBD)	
	- HITRAN & HITEMP molecular database	Robert Hargreaves Harvard CfA
15:10	- NASA's OCO-2 satellite mission and O ₂ A-band spectroscopy	Brian Drouin NASA JPL
15:30	- Technical challenges involving high-fidelity spectroscopic measurements of line shapes and peak areas	Joseph T. Hodges NIST
16:00	- Laser spectroscopy based ultra-fast traceable dynamic quantities (<i>p, T, mole fraction</i>) measurements	Zhechao Qu PTB
16:20	- Remote sensing of air temperature using infrared satellite measurements	Jeremy J. Harrison NCEO-UoL
16:40	- Super-Lorentzian effects for selected molecules	Ha Tran CNRS-LMD
17:10	<i>[end of workshop]</i>	

[Evening program: city tour (guide: Kirill Berezkin) & conference dinner (Judith Krakowski)]

