

**SECOND ANNOUNCEMENT
AND
CALL FOR POSTER CONTRIBUTIONS**

For the
**2nd Stakeholder Workshop on
“Traceability of Spectral Reference Line Data”
9 – 10 October, 2014**

Physikalisch-Technische Bundesanstalt, Seminarzentrum,
Bundesallee 100, 38116 Braunschweig, Germany

Dear Colleague,

PTB would like to invite you to participate in the 2nd EUMETRISPEC Stakeholder Workshop on “*Traceability of Spectral Reference Line Data*”. Before you decide about your participation, allow me to introduce you to the subject and background of the workshop:

Spectroscopic instruments like FT-IR, laser absorption or LIDAR are the key tools for the surveillance of natural and anthropogenic variations in atmospheric composition as well as for the detection of climate change. Theoretical and experimental spectroscopists, instrument developers and researchers in environmental sciences need to work together closely to ensure the availability, the detailed understanding and the proper application and interpretation of high quality atmospheric monitors used on carriers like satellites, balloons, airplane or on ground.

Absolutely essential ingredients for a proper extraction of atmospheric species concentration data from spectroscopic monitoring instruments are accurate spectral reference data of the atmospheric target molecules, as well as their pressure, temperature and matrix dependence. There is an extensive and growing body of literature on spectral data, which is partially condensed in large line-by-line databases like HITRAN or GEISA. But the atmospheric sciences community is frequently struggling with the heterogeneity, dispersal, fragmentation, ambiguity and quality of the spectral data sets, with the lack of standardization in the techniques to derive spectral data, which hinders comparability and long term continuity, and with missing, ill-defined and insufficiently quantified uncertainty statements.

A growing backing in the metrological community aims in providing the scientific support to solve some of these questions, which has also been strengthened by the mutual recognition agreement (MRA) between WMO and BIPM. One example of such “support” is the EUMETRISPEC–project (www.eumetrispec.org), a metrology-driven research initiative under the framework of the European metrology research programme (EMRP).

Workshop Goals

Get together and mutual exchange of information, expertise and recent developments between stakeholders in the atmospheric and environmental monitoring community, lab spectroscopists for spectral line data, and metrologists participating in the EURMETRISPEC project. Recent results of the EUMETRISPEC project and stakeholder activities will be presented.

The workshop language will be English (presentations, posters, discussions, proceedings).

Presentations / Posters / Publications

In addition to invited and contributed oral presentations the workshop will host a **poster session for which applications are possible until Sept. 26th**. The poster sessions will allow the researchers to discuss their most recent work in a relaxed and fruitful atmosphere. All contributed papers will be published in a proceedings volume and will be made available to the participants in digital form after the meeting.

Amongst the invited speakers are:

- Roman Ciurylo Uniwersytet Mikolaja Kopernika, Torún, Poland
- Livio Gianfrani Seconda Università die Napoli, Caserta, Italy
- Joseph Hodges NIST, Gaithersburg, USA
- Nicole Jacquinet Ecole Polytechnique, Paris, France
- Georg Mellau Justus-Liebig-Universität, Gießen, Germany
- Oleg Polyanski University College of London, London, UK

Registration and abstract submission

To register for the workshop, please send an email or fax *asap* to

Mrs. Silke Dohlien
Phone +49 531 592 3201
Fax +49 531 592 3209
e-mail: silke.dohlien@ptb.de

Please provide your contact data, poster title and a one page (max) abstract if you plan a poster contribution. Allowed poster format is up to **A0**.

THE DEADLINE FOR REGISTRATION has been extended until 30th SEPTEMBER, 2014

Tentative Program

Thursday, 9 October 2014

08:30 – 12:00	Welcome Introduction to EUMETRISPEC and Partners Morning session: invited talks and project presentations
12:00 – 13:30	Lunch
13:30 – 16:30	Afternoon session: invited talks and project presentations
16:30 – 18:30	Poster session: contributed papers, EUMETRISPEC work packages, JRP partner presentations
19:30	Workshop dinner

Friday, 10 October 2014

08:30 – 12:00	Morning session: invited talks and contributed posters
10:00 – 15:00	Optional lab tours / on participants' requests
12:00 – 14:00	Lunch / End of the workshop

The final program will be published on the web site: <http://www.eumetrispec.org>

Costs

Participation in the **workshop will be free of charge**. Participants are expected to cover their own travel and living costs.

Accommodation

Late registrants are advised to take care of their hotel reservation as soon as possible.

We are looking forward to welcome you at the workshop.

Best regards,



Prof. Dr. Volker Ebert
Head of Department 3.2, Analytics and Thermodynamic State Behaviour of Gases
Physikalisch-Technische Bundesanstalt, PTB
Bundesallee 100, 38116 Braunschweig, Germany
<http://www.ptb.de/cms/en/fachabteilungen/abt3/fb-32.html>

