

HIGHGAS Stakeholder Workshop



The focus of this workshop will be to provide an overview of the aims of the new EMRP '**Metrology for high-impact greenhouse gases**' (HIGHGAS) project. To also discuss the requirements from a variety of stakeholders in this field and to ensure the outputs from the project will deliver the desired impact.

The aim of HIGHGAS is to develop a European metrological infrastructure to underpin measurements of the highest impact greenhouse gases identified by the WMO and health effects research as critical for global monitoring. It will go beyond the state of the art by disseminating SI traceable reference standards that meet the WMO Data Quality Objectives.

This will be achieved by focussing on the development of static reference gas standards at unprecedented levels of accuracy and stability, the

development of dynamic reference gas standards of unstable components and spectroscopic methods for dissemination to the field as optical transfer standards.

Program

This project is led by Dr Paul Brewer from the Gas and Particle Metrology Group at the National Physical Laboratory, and the partners are PTB, LNE, CMI, DFM, IL, METAS, MIKES TUBITAK, VSL and EMPA. The scientific program will discuss the aims of the HIGHGAS project and requirements from stakeholders.

Thursday 13th November 2014

08:45	Registration
09:00	Welcome to LNE. <i>Tatiana Mace (LNE)</i>
09:10	Introduction to HIGHGAS and aims of the workshop <i>Paul Brewer (NPL)</i>
09:30	High accuracy primary reference gas mixtures <i>Gerard Nieuwenkamp (VSL)</i>
09:50	Dynamic methods for trace concentrations and dissemination to the field. <i>Tatiana Mace (LNE)</i>
10:10	Spectroscopic methods for isotopic composition measurements and transfer standards <i>Javis Nwaboh (PTB)</i>
10:30	Coffee break
11:00	Greenhouse gas analyses at global background stations <i>Stefan Reimann (EMPA)</i>
11:30	Quality Assurance System within GAW and the role of

	National Metrology Institutes in this system <i>Oksana Tarasova (WMO)</i>
12:00	Accuracy requirements for interchangeability of gas standards for greenhouse gas and precursor atmospheric monitoring <i>Robert Wielgosz (BIPM)</i>
12:30	Lunch
13:30	High precision monitoring of greenhouses gases in Europe <i>Michel Ramonet (LSCE)</i>
13:50	GAUGE - a NERC consortium to prototype a greenhouse gas measuring system for the UK <i>Emanuel Gloor, (University of Leeds)</i>
14:10	Requirements from the speciality gas industry for greenhouse gas standards <i>Peter Adam (Linde Gas)</i>
14:30	Measurement techniques for greenhouse gases and the impact of improved reference standards <i>Graham Leggett (Tiger Optics)</i>
14:50	Reference materials and calibration strategies for Cavity Ring-Down Spectroscopy <i>Renato Winkler (Picarro)</i>
15:10	Future requirements in ISOTC/158 for high-accuracy gravimetry in support of monitoring levels of greenhouse gases <i>Adriaan Van der Veen (VSL)</i>
15:30	Coffee break
16:00	Discussion on how JRP will meet stakeholder requirements and actions to be taken forward
16:30	Training and future stakeholder engagement
17:00	Close

Registration

For free registration please fill in the registration link attached no later than October 23rd 2014.

[HIGHGAS stakeholder workshop registration](#)

Venue

The workshop will be held at Laboratoire national de métrologie et d'essais (LNE) in Paris.

LNE-Paris,

1 rue Gaston Boissier,

75724 Paris Cedex 15,

France.

For further questions please contact:

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<http://projects.npl.co.uk/highgas/>