

MACPoll

Workshop on Zero Gases

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Background

ENV01 JRP MACPoll

“Metrology for Chemical Pollutants in Air”

- EMRP “Environment call”
- Project Period June 2011 – May 2014
- Consortium : 12 NMIs, 3 Research Excellence Grants, 2 Research Mobility Grants

Aim of MACPoll WP 2

- Ambient air: reactive gases (NO_x , SO_2) included in Air Quality Directive (2008/50/EC)
- Reduce the uncertainty in the measurement of chemical pollutants in air by improving the measurement capabilities for impurities in zero gas
- Focus on trace level measurements of **SO_2 , NO , NO_2 , NH_3 , CO_2 , H_2O and H_2S .**

Working objectives WP2

- Develop robust methodologies for assessing (simultaneously) zero gas impurities
- Prepare a certification protocol for zero gas as inputs to a “New Work Item” proposal for ISO 158 “Gas Analysis” (Workshop on Zero Gas)

Aim of Workshop on Zero Gases

Discuss and lay the basis for the preparation of a working document 'Certification protocol for zero gas' that addresses:

- Specifications of impurities
- Assessment approaches / Analytical methods
- Relevance of improved zero gas versus economic impact

Workshop program

- Current practice on measurement of zero gases -results of the questionnaire (S. Persijn)
- Measurement methods (T. Macé)
- Standardisation activities in gas analysis – ISO TC158 (R. Wessel)
- Reference methods for air chemical pollutants and specifications for zero gas – CEN TC264 (T. Hafkenscheid)
- EU AQUILA network (F. Mathé)

Brainstorm session

☐ 3 Parallel sessions to discuss assessment of zero gas needed in air monitoring for:

- CO measurements -

Chair: R. Wessel, Rapporteur: O. Werhahn

- SO₂ measurements -

Chair: F. Mathé, Rapporteur: J. Walden

- NO_x measurements

Chair: T. Hafkenscheid, Rapporteur: G. Nieuwenkamp

☐ Presentation of the outcome and conclusions

Wishing you a fruitful day!

Annarita Baldan
Stefan Persijn
WP2 partners
VSL organising committee

