



## MetClimVOC workshop

### Metrology for atmospheric monitoring

**07 March 2023 (09:00 – 12:45 h CET), Lyon (France)**

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In the framework of the EURAMET-EMPIR project MetClimVOC (<https://www.metclimvoc.eu>), we are pleased to invite you to the MetClimVOC workshop, which will take place on 7 March 2023 as a satellite event of the International Metrology Congress CIM2023.

The workshop will cover topics related to the challenges of monitoring atmospheric volatile organic compounds (VOC) that are relevant for climate.

#### **Session 1 – Needs of atmospheric VOC monitoring (09:00-10:30)**

**09:00 An introduction to MetClimVOC**

Céline Pascale – METAS / Switzerland

Maitane Iturrate-Garcia – METAS / Switzerland

**09:05 Towards an unbroken SI-traceable calibration chain for VOCs at monitoring stations**

**09:10 Preparation of reference gas mixtures of climate relevant VOCs**

Annarita Baldan – VSL / The Netherlands

Tatiana Macé – LNE / France

**09:35 Transferring SI-traceability to the field – assessment of new working standards**

Maitane Iturrate-Garcia – METAS / Switzerland

Stefan Reimann – Empa / Switzerland

**09:55 New and classical techniques to measure formaldehyde – a laboratory intercomparison**

Thérèse Salameh – IMT Nord Europe / France

Audrey Grandjean – Chromatotec / France

**10:10 Round table:**

**Can SI-traceability be achieved at atmospheric monitoring stations? – Needs & challenges**

Presenters: Stefan Reimann – Empa / Switzerland & Céline Pascale – METAS / Switzerland

With: Ralf Tillmann – FZ-Jülich / Germany

Rupert Holzinger – University of Utrecht / the Netherlands

Yoana Hristova – NPL / United Kingdom

Etienne Smith – AP2E DURAG / France

Martine Carré – Air Liquide / France (to be confirmed)

**10:30–11:15 Coffee break**



## Session 2 – Project outcomes on VOC sampling and analysis (11:15-12:45)

### 11:15 Improvements on VOC sampling and analytical systems

#### 11:15 Sampling methods – effects of sorbent materials and scrubbers on VOC measurements

Anja Claude – Deutscher Wetterdienst (DWD) / Germany

#### 11:30 New calibration protocols for Proton Transfer Reaction Mass Spectrometry (PTR-MS)

Yoana Hristova – NPL / United Kingdom

Rupert Holzinger – University of Utrecht / the Netherlands

#### 11:45 A fit-for-purpose methanol analyser

Maricarmen Lecuna – Politecnico di Torino / Italy

### 11:55 Remote sensing input data – analysis and improvement strategies

Alexandra Lüttschwager – PTB / Germany

Iouli Gordon – HITRAN database / USA (pre-recorded video)

### 12:10 Project outcomes and uptakes: uncertainty tools, directives and calibration facilities

Stefan Reimann – Empa / Switzerland

Thérèse Salameh – IMT Nord Europe / France

Tobias Bühlmann – METAS / Switzerland

### 12:25 Round table:

#### Metrology for atmospheric monitoring – uptake and further steps

Presenters: Thérèse Salameh – IMT Nord Europe /France & Maitane Iturrate-G. – METAS / Switzerland

With: Anja Claude – Deutscher Wetterdienst (DWD) / Germany

Jean-Philippe Amiet – Chromatotec / France

Alexandra Lüttschwager – PTB / Germany

Paolo Laj – Aerosol, Clouds and Trace Gas Research Infrastructure (ACTRIS) / France

Céline Pascale – METAS / Switzerland

12:45–13:15 Lunch

## HOW TO PARTICIPATE?

1- Send an e-mail to [theo.ravailler@cfmetrologie](mailto:theo.ravailler@cfmetrologie) and [kirill.berezkin@ptb.de](mailto:kirill.berezkin@ptb.de) indicating your name, affiliation and professional email address.

⇒ By attending this workshop, you will be able to:

- 1- Access the restaurant on Tuesday
- 2- Access to the [CIM – International Metrology Congress programme](#) during Tuesday and Wednesday
- 3- Visit freely the Global Industrie exhibition

## HOW TO GET TO EUREXPO LYON – USEFUL INFORMATION

- Venue: Eurexpo Lyon, Hall 2.1 - Boulevard de l'Europe, 69680 Chassieu
- How to come: by car, park at Parking P0, or by public transport (Tramway T5, Bus 100)

➔ **IMPORTANT: a national strike is scheduled on March 7.** We strongly recommend that you allow extra time for your travels, stay close to Eurexpo Lyon or that you travel to Lyon the day before to avoid any delays on D-Day.

- Badge / Pocket Programme: go straight to the CIM Welcome Desk to collect them, Hall 2.1 entrance ONLY (**all participants are expected at Hall 2.1**)
- Arrival is from 8 a.m. from MetClimVOC participants

We look forward to meeting you all in Lyon!