

38th Meeting of the CCQM - Gas Analysis Working Group Pavillon de Breteuil in BIPM (Sevrés, Paris)

Chair
Deputy Chair

Jin Seog Kim
Paul Brewer

Monday, 16th April 2018 09:00

1. **Welcome, roll call of participants and approval of the agenda** Jin Seog Kim
2. **Approval of the minutes of the 37th meeting** Damian Smeulders
3. **International Comparability**
 - Draft B Stage
 - CCQM-K121 & P177 Monoterpenes in N₂ Jerry Rhoderick
 - CCQM-K112 Biogas Adriaan van der Veen
 - CCQM-K116 & P193 H₂O in N₂ Paul Brewer
 - Draft A Stage
 - BIPM.QM-K1 (ambient level ozone) Joële Viallon
 - Planning/Measurement Stage
 - CCQM-K137 NO in N₂ Joële Viallon
 - CCQM-K41.2017 H₂S in N₂ Sangil Lee
 - CCQM-K117 NH₃ in N₂ Janneke van Wijk
 - CCQM-K118 Natural gas Heinrich Kippardt
 - CCQM-K74.2018 & P172 NO₂ in N₂ Edgar Flores
 - CCQM-K10.2018 BTEX Jerry Rhoderick
- 10:30** Coffee break
- 11:00**
4. **Advancing the state of the art in measurement science part 1**
 - CCQM-K150 & P189 particle number and charge concentration Paul Quincey
 - CCQM-K120 a and b (track A) and P188.a CO₂ in air Edgar Flores
- 13:00** Lunch
- 14:00**
5. **Advancing the state of the art in measurement science part 1 continued**
 - CCQM-K120 a and b (track A) and P188.a CO₂ in air Edgar Flores
- 15:30** Tea break
- 16:00 (continue CCQM-K120)
6. **Meeting the needs of our stakeholders**
 - Activities at IAEA Sergey Assonov
 - Activities at WMO (to be determined)
 - Activities in ISO/TC158 Adriaan van derVeen
 - Future strategic plan Jin Seog Kim
- 18:00** Close

Tuesday, 17th April 2018 09:00

7. **Progress reports from the Regional Metrology Organisations**
APMP
EURAMET
COOMET
SIM (no report)
- Takuya Shimosaka
Janneke van Wijk
Efremova Olga
8. **New Key comparisons and pilot studies**
CCQM-K3.2019 Automotive gases (track A)
CCQM-K68.2019 N₂O in N₂
CCQM-K26b.2019 SO₂ in N₂
Pilot in isotope of CO”
New proposals
- Adriaan van der Veen
Joële Viallon
Paul Brewer

Jin Seog Kim
- 10:30** Coffee break
- 11:00**
9. **Progress of the review of CMCs**
Progress in Cycle XIX and Cycle XX
Track A comparison task group and CMC strategy update
- Sangil Lee
Paul Brewer
10. **Task groups**
Particulate/Black Carbon Comparisons Task Group
Ozone cross section Task Group
- Paul Quincey
Joseph Hodges
- 13:00** Lunch
- 14:00**
11. **Advancing the state of the art in measurement science part 2**
Summary of CCQM-K120 reference values
- Edgar Flores
- 15:30** Tea break
12. **Update on developments at the NMIs, DIs and the BIPM**
BIPM Chemistry Department
Calibration Curve Computing Software (INRIM)
- Robert Wielgosz
Francesca Pennechi
13. **Next Meetings**
- 39th GAWG meeting: CENAM, Mexico, October 8-9, 2018
Workshop: Published Gas Metrology Science in Journal
 - 40th GAWG meeting: BIPM, April, 2019

Close

Key Comparison reports that have been finalized and moved to the KCDB

- CCQM-K119 (Liquefied Petroleum Gas)
- BIPM.QM-K1 (Ozone) with NMISA, INECC(Mexico), NPL
- APMP.QM-K111 (Propane in nitrogen)
- APMP.QM-S9 (Carbon monoxide in nitrogen)

CCQM Working Group on Gas Analysis (GAWG)

Meeting of 16-17 April 2018, BIPM (Sèvres)

Participants list

CCQM-GAWG Chair

Dr Jin Seog Kim, KRISS

CCQM President

Dr Willie E. May, NIST / CIPM

Director of the BIPM

Dr Martin J.T. Milton

CCQM Executive Secretary

Dr Robert I. Wielgosz, BIPM

Participants

Mr Najjy AL Yami, SASO-NMCC

Mr Jan Beranek, CMI

Dr Paul Brewer, NPL

Ms Jennifer Carney, NIST

Ms Christina Cecelski, NIST

Mr Yan Chubchenko, VNIIM

Ms Andreia de Lima Fioravante, INMETRO

Dr Florbela Dias, IPQ

Mrs Olga Efremova, VNIIM

Dr Teresa Fernández Vicente, CEM

Ms Marina Froehlich, BEV

Mrs Judit Fuko, BFKH

Dr Bradley Hall, NOAA/ESRL

Dr Joseph Hodges, NIST

Dr Prabha Johri, NPLI

Mr Heinrich Kipphardt, BAM

Dr Jorge Koelliker Delgado, CENAM

Dr Sangil Lee, KRISS

Mr Tsai-Yin Lin, CMS/ITRI

Mrs Tatiana Macé, LNE

Dr Arul Murugan, NPL

Dr Bernhard Niederhauser, METAS

Mr Napo Ntsasa, NMISA

Dr Grzegorz Ochman, GUM

Dr Narine Oganyan, VNIIFTRI

Dr Paul Quincey, NPL

Dr George-Jerry Rhoderick, NIST

Dr Francesca Rolle, INRIM

Dr Daniel Rzesanke, ICOS CAL-FCL

Dr Michela Segal, INRIM

Dr Takuya Shimosaka, NMIJ/AIST

Dr Damian Smeulders, NMIA

Mr Christophe Sutour, LNE

Dr Tanil Tarhan, UME

Mr James Tshilongo, NMISA

Dr Shinji Uehara, CERI

Dr Miroslava Valkova, SMU

Dr Adriaan van der Veen, VSL

Mrs Janneke van Wijk, VSL

Dr Konstantina Vasilatou, METAS

Dr Joële Viallon, BIPM

Dr Jari Waldén, MIKES-FMI

Dr Olav Werhahn, PTB

Dr David Worton, NPL

Dr Zeyi Zhou, NIM

Dr Fu Ming Kai, NMC/ASTAR

BIPM staff in attendance

Dr Edgar Flores Jardin