



# Accurate Monitoring of Surface Ozone Virtual Workshop 5-9 October 2020

## Implementing a Globally Coordinated Change in Ozone Cross Section Value

for Surface Ozone Monitoring

**Goal:** To develop a plan and timetable, which will allow a globally coordinated and universal implementation of the value published in 2019 for the ozone absorption cross-section at 253.65 nm, and required for the measurement of surface ozone concentrations around the world.

#### Monday 5 October 12:00 - 14:30 <u>UTC+2</u>

#### Surface Ozone measurement and its impact / Survey feedback

Session Chair: P. Brewer, Moderator: R. I. Wielgosz, Rapporteur: J. Carney

12.00-12.10	Welcome, introduction and workshop aims	P. Brewer, NPL
12.10-12.25	Impact of surface ozone on human health and the environmental	M. Wichmann–Fiebig, UBA
12.25-12.30	Questions	Moderator
12.30-12.45	The 2019 Ozone Cross-Section consensus value at 253.65 nm	J.T. Hodges, NIST
12.45-13.00	Questions	Moderator
13.00-13.15	Benefits to uniformity of atmospheric ozone measurements	Owen Cooper, NOAA, USA
13.15-13.25	Questions	Moderator
13.25-13.40	Impact of the ozone cross-section on air quality compliance	A.C. Lewis, NCAS, Uni- York
13.40-13.45	Questions	Moderator
13.45-14.00	Results of the <u>on-line survey</u>	J. Viallon, BIPM
14.00-14.15	Questions and Discussion	Moderator
14.15-14.30	Confirmation of Task group Membership and plans for next days	R.I. Wielgosz, BIPM



#### Tuesday 6 October 12:00 - 14:45 UTC+2

#### International standards, calibration services and monitoring networks

Session Chair: S. Lee, Moderator: J. Viallon, Rapporteur: I. Chubchenko

12.00-12.15	Primary Surface Ozone Standard Reference Photometers and BIPM.QM-K1	J. Viallon, BIPM
12.15-12.45	Calibration services for ozone standards and instruments	
	Within United States of America	J. Norris, NIST
	Within Switzerland	B. Niederhauser, METAS
13.00-13.15	Past ozone cross-sections transitions in Total Ozone measurements	D. Tarasick, Environment
13.00-13.13		and Climate Change Canada
13.15-13.30	Questions and discussion on measurements, standards and Calibrations	Moderator
13.30-13.45	Asia Network	H. Tanimoto, NIES
13.45-14.00	Californian Network	L. Sorensen, CARB
14.00-14.15	Aquila and European Air quality Reference Laboratories	A. Borowiak, JRC
14.15-14.30	Questions and discussion on monitoring networks	Moderator

## Wednesday 7 October 12:00 - 14:30 <u>UTC+2</u>

#### Air Quality normative aspects; Ozone analyser manufacturing

Session Chair: J.T. Hodges, Moderator: J. Carney, Rapporteur A. Borrowiak

12.00-12.15	CEN perspective	B. Stacey, Ricardo
12.15-12.30	Ozone traceability, surface monitoring impacts, and potential implementation issues in the United States	Joann Rice, US EPA
12.30-12.45	The ozone traceability scheme and QC system in China, the possible influence of new cross section in China	Dr. Yaolong,
12.45-13.00	Impact on national ozone monitoring network by the new ozone absorption cross-section value in Korea	J-H Park, NIER, Korea
13.00-13.15	Questions and discussion on monitoring networks	Moderator
13.15-13.30	National surface-level ozone analyzers in Russia	V.P. Chelibanov, ITMO UNIVERSITY, Saint-Petersburg
13.30-13.45	Ozone analysers manufacturing at Envea	R. Akiki, Envea
13.45-14.00	Questions and discussion for Ozone Analyser Manufacturers	Moderator
14.00-14.15	Break-out sessions and plans for remaining days	R.I. Wielgosz, BIPM



14:00

### Thursday 8 October 12:00 - 14:00 UTC+2

#### **Break out Session for Task Groups**

12:00- Breakout sessions for 4 Task Groups

 $TG1: Identifying \ and \ implementing \ change$ 

Task Group Chairs, Moderators and Members

TG2: Time line for Change
TG3: Communicating Change

TG4: Managing Change

#### Friday 9 October 12:00 - 14:30 UTC+2

#### Feedback from Task Groups, Conclusions and Recommendations

Session Chair: P. Brewer, Moderator: R.I. Wielgosz, Rapporteur: J. Viallon

12.00-12.15	TG1 Report: Identifying and implementing change	Chair Task Group 1
12.15-12.30	TG2 Report: Time line for Change	Chair Task Group 2
12.30-12.45	TG3 Report: Communicating Change	Chair Task Group 3
12.45-13.00	TG4 Report: Managing Change	Chair Task Group 4
13.00-13.45	Questions and Discussion	All with Moderator
13.45-14.15	Conclusions and recommendations	All with Moderator
14.15-14.30	Final comments and next steps	P. Brewer, NPL

#### Task-groups:

Four Task Groups will be constituted during the first day. They will discuss electronically the questions below in addition to the results of the <u>on-line survey</u>, and will report on their outcomes during the last day.

#### TG1: Identifying and implementing change

- How do we clearly identify the change being made?
- Will a change be mandatory or voluntary?

#### **TG2: Time line for Change**

- How much time is required to prepare for change?
- What is a reasonable implementation date and schedule?

#### **TG3: Communicating Change**

- How do we best publicise the change and its date/schedule decided for this?
- What information needs to be provided for stakeholders?

#### **TG4: Managing Change**

- How do we best identify risks in making the change and mitigate them?
- How do we deal with historic data?

#### **Steering Committee Members:**

- P. Brewer (NPL), chair / J. Viallon (BIPM), Executive Secretary / R.I. Wielgosz (BIPM)
- S. Lee (KRISS) / I. Chubchenko (VNIIM) / J. Carney, J.T. Hodges, J. Norris (NIST)
- K. Saarnio (FMI) / N. Ntsasa (NMISA) / A. Borowiak (JRC)