



**EUROPEAN COMMISSION**  
DIRECTORATE-GENERAL  
JOINT RESEARCH CENTRE  
Directorate C. Climate, Energy and Transport  
Sustainable Transport Unit

Ispra (Italy), 23<sup>th</sup> September 2021

## Agenda

**Mitigation and forestalling of Secondary Aerosol formation. The role of vehicle emissions.**

**22 -23 -24 September 2021**

- The workshop session will be from 11:00h to 16:00h (CET) with a lunch break from 12:30 to 13:30h.
- Each speaker will have 20 min for the presentation + 10 min for Q&A. At the end of the day we will hold a short round table to extract some conclusions & recommendations out of each session.
- During the sessions we will use a slido.com link to share questions with the participants.
- The workshop will be fully virtual and the sessions will be video recorded.

### Day 1 – Wednesday, 22nd September 2021

- Emissions and SA formation (experimental evidences), atmospheric processes.

<https://ec.europa.eu/jrc/en/event/workshop/workshop-secondary-aerosol-formation>

Time (CET)	Title	Speaker
10:45	Welcome coffee for speakers	DG - JRC & DG – ENV (Ispra Italy and Brussels)
11:00	Opening of the workshop to participants	
11:30	Road transport – Past, current, and future emissions factors – Application to France	Jean-Marc ANDRE Citepa – France
12:00	Issues with condensable organics in European PM2.5 emissions; key messages and follow-up from an expert workshop organised by EMEP MSC-W	David Simpson Norwegian Meteorological Institute
12:30	Lunch break	
13:30	The Synergistic Role of Sulphuric Acid, Bases, and Oxidized Organics Governing New-Particle Formation in Beijing	Federico Bianchi University of Helsinki - Finland
	Recent developments on SVOC/IVOC as “condensable species” emissions leading to SOA formation	Bertrand BESSAGNET European Commission, Joint Research Centre (JRC), Ispra, Italy
14:30	Road vehicles as a source of national and urban ammonia emissions	David Carslaw Department of Chemistry,

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		University of York, UK
<b>15:00</b>	<b>Coffee break</b>	
15:15	<i>Round table - discussion &amp; conclusions of the 1<sup>st</sup> session</i>	All speakers & Participants Moderator - DG ENV
<b>16:00</b>	<b>End of the 1<sup>st</sup> session</b>	

**Day 2 – Thursday, 23<sup>rd</sup> September 2021**

- Instrumentation for analysis and characterization of PA, SA (on-line & coupled instruments) and study of the aging of aerosol in smog chamber and/ or aerosol Flow tube.

<b>Time (CET)</b>	<b>Title</b>	<b>Speaker</b>
<b>11:00</b>	<b>Field Studies of Road Traffic Emissions and Estimates of Secondary Pollutant Formation</b>	<b>Roy M Harrison</b> University of Birmingham, United Kingdom
<b>11:30</b>	<b>In situ measurements of emissions and evolutions of particles from road traffic</b>	<b>Boris Vansevent</b>  EASE, University Gustave Eiffel, Bron, 69500, France
<b>12:00</b>	<b>Secondary emissions formed by diesel and gasoline Euro5 passenger vehicles emissions</b>	<b>Kostenidou Evangelia,</b>  Aix-Marseille Université, UMR 7673 CNRS, LCE, Marseille, France
<b>12:30</b>	<b>Lunch break</b>	
<b>13:30</b>	<b>Towards realistic engine emissions and oxidation chemistry in smog chambers</b>	<b>James Allan</b> The University of Manchester, UK
<b>14:00</b>	<b>Oxidative Properties of Secondary Organic Aerosol as a Potential Particle Toxicity Metric</b>	<b>M. Kalberer,</b> University of Basel, Department of Environmental Sciences, Switzerland
<b>14:30</b>	<b>Atmospheric nanoparticles in urban environment</b>	<b>T. Petäjä,</b> Institute for Atmospheric and Earth System Research (INAR) / Physics, Faculty of Science, University of Helsinki / Finland.
<b>15:00</b>	<b>Coffee break</b>	
<b>15:15</b>	<i>Round table - discussion &amp; conclusions of the 2<sup>nd</sup> session</i>	All speakers & Participants Moderator - DG ENV

<b>16:00</b>	<b>End of the 2<sup>nd</sup> session.</b>	
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<b>Day 3 – Friday, 24<sup>th</sup> September 2021</b> <ul style="list-style-type: none"> <li>Source apportionment and modelling of SOA and/or SIA at urban and regional scales.</li> </ul>		
<b>Time (CET)</b>	<b>Title</b>	<b>Speaker</b>
<b>11:00</b>	<b>Source-allocation methods in regional and urban models - main differences and recommended uses</b>	<b>Leonor Tarrason,</b>  NILU, Norway.
<b>11:30</b>	<b>Dominant role of meteorology in the near-surface ozone enhancements over Europe during the COVID-19 lockdown in early spring 2020</b>	<b>Carlos Ordóñez,</b>  Departamento de Física de la Tierra y Astrofísica, Facultad de Ciencias Físicas, Universidad Complutense de Madrid (UCM), Madrid, Spain
<b>12:00</b>	<b>Secondary organic aerosol (SOA) composition, formation and evolution in Indo-Gangetic plain</b>	<b>S. N. Tripathi</b>  Department of Civil Engineering; Indian Institute of Technology - Kanpur
<b>12:30</b>	<b>Lunch break</b>	
<b>13:30</b>	<b>The contribution of vehicle emissions to secondary aerosol concentrations across Europe? Results from the recent Clean Air Outlook</b>	<b>Jens Borken-Kleefeld,</b>  Energy, Climate, and Environment (ECE) Program; IIASA
<b>14:00</b>	<b>Influence of traffic on particle concentrations in cities</b>	<b>Karine Sartelet</b>  CEREA, Ecole des Ponts, France
<b>14:30</b>	<b>From the lab to the field, measuring and quantifying vehicle impacts to primary and secondary aerosol using aerosol mass spectrometry</b>	<b>P.F. DeCarlo,</b> Department of Environmental Health and Engineering Johns Hopkins University Baltimore, MD USA 21218
<b>15:00</b>	<b>Coffee break</b>	
<b>15:15</b>	<b>Round table - discussion &amp; conclusions of the 3<sup>rd</sup> session</b>	All speakers & Participants Moderator - DG ENV
<b>16:00</b>	<b>Conclusions and follow up. End of the workshop.</b>	