



International Transport and Air Pollution Conference

Programme TAP 2021; Draft from 23.02.2021

| Date | Time (CET) | Plenary Session | Author | Affiliation | HKT | NYT |
|------------|------------|--|--------------------------------------|---|-------|-------|
| 30.03.2021 | 09:30 | Welcome, Introduction and (self service at home) | Stefan Hausberger & Giorgos Fontaras | TU Graz & JRC | 16:30 | 03:30 |
| | 09:50 | Roadmap to zero-carbon road transport in 2050 | Ján Horváth | Slovak Hydrometeorological Institute | 16:50 | 03:50 |
| | 10:20 | Heavy-duty vehicles (HDV) transport of goods contribution to the overall CO2 emissions from road transport in the EU | Nikolaus Steininger | EU COM, DG Clima | 17:20 | 04:20 |
| | 10:50 | Break and Exhibition | | | | |
| | 11:20 | Study on a test track of dust resuspension induced by a vehicle | Mickael Le Vern | University Gustave Eiffel, GERS-GIE | 18:20 | 05:20 |
| | 11:50 | Beyond car efficiency and electrification: The role of demand reduction, public transit and active travel measures to reduce GHG emissions | Vera O'Riordan | MaREI Centre, Environmental Research Institute, Co. Cork, Ireland | 18:50 | 05:50 |
| | 12:20 | Break & Exhibition | | | 19:20 | 06:20 |

| Date | Time | Session A (Heavy Duty Vehicle Emission Measurement) | Author | Affiliation | | | |
|------------|--------------|--|--|--|--------------------|-------|--|
| 30.03.2021 | 13:20 | Emission behaviour from recent EURO VI HDVs from chassis dyno and PEMS test | Konstantin Weller | TU Graz | 20:20 | 07:20 | |
| | 13:50 | Bus emissions measurement in operational conditions using PEMS: comparison between different Euro technologies and fuels | Laure Deville Cavellin | Airparif | 20:50 | 07:50 | |
| | 14:20 | In-use NOx emissions from London buses with retrofitted NOx aftertreatment | Napameth Phantawesak | Centre for Transport Studies, London, UK | 21:20 | 08:20 | |
| | 14:50 | Break & Exhibition | | | 21:50 | 08:50 | |
| | | Time | Session A (Road Emission Measurement) | Author | Affiliation | | |
| | 15:20 | On-road emission measurements beyond type approval PEMS | Norbert Ligterink (Mieke Paalvast) | TNO, Sustainable Transport and Logistics, NL | 22:20 | 09:20 | |
| | 15:50 | Insights for post-Euro 6 based on analysis of Euro 6d-TEMP PEMS data | L. Sileghem, Joachim Demuynck | Ghent University | 22:50 | 09:50 | |
| 16:20 | End of Day 1 | | | 23:20 | 10:20 | | |

| Date | Time | Session B (Air Quality Measurement) | Author | Affiliation | | | |
|------------|--------------|---|--|---|--------------------|-------|--|
| 30.03.2021 | 13:20 | Quantification of exposure to black carbon and NOx inside vehicles when driving through a road tunnel | Max Elmgren | Environment and Health Administration, SLB-analys, Stockholm, Sweden | 20:20 | 07:20 | |
| | 13:50 | Validation of low cost sensors for gases and particulate matter at a monitoring station in the city centre of Wuppertal | R. Kurtenbach | Institute for Atmospheric and Environmental Research, University of Wuppertal | 20:50 | 07:50 | |
| | 14:20 | Measuring Ultrafine Particle Number Size Distribution Starting from 1nm in Urban Environment | Joonas Vanhanen | Airmodus Ltd., Helsinki, Finland | 21:20 | 08:20 | |
| | 14:50 | Break and Exhibition | | | 21:50 | 08:50 | |
| | | Time | Session B (Air Quality Modelling & Impacts) | Author | Affiliation | | |
| | 15:20 | Using modelling to improve Air Quality: The Concauwe Urban Air Quality Studies | Athanasios Megaritis | Concauwe, Environmental Science for European refining, Brussels, Belgium | 22:20 | 09:20 | |
| | 15:50 | Operational GRAL urban street-canyon air quality forecast: Model assessment and COVID-19 restrictions impact in air quality | J.A. Gonzalez | CRETUS Institute, Dept. Chemical Engineering, University of Santiago de Compostela, Spain | 22:50 | 09:50 | |
| 16:20 | End of Day 1 | | | 23:20 | 10:20 | | |

| Date | Time | Session A (Air Quality Impacts) | Author | Affiliation | | | |
|------------|--------------------|--|--|---|--------------------|-------|--|
| 31.03.2021 | 09:00 | Mobile Source Air Toxics Impacts In Urban Area – A Case Study in Taiwan | Jiun-Hong Tsai | National Cheng Kung University, Taiwan, | 16:00 | 03:00 | |
| | 09:30 | Effectiveness of Facemasks to Reduce Particulate Matter Exposure: A Case Study of Kathmandu Valley, Nepal | Prasidha R. Neupane | Khwopa College (Tribhuvan University), Bhaktapur, Nepal | 16:30 | 03:30 | |
| | 10:00 | Design of a program for the identification and correction of high emitting vehicles in Europe using remote sensing devices | J. Buhigas | Opus Remote Sensing Europe, Madrid, 28015, E | 17:00 | 04:00 | |
| | 10:30 | Break & Exhibition | | | 17:30 | 04:30 | |
| | | Time | Session A (Life Cycle Analysis and GHG Emissions of vehicles) | Author | Affiliation | | |
| | 11:00 | Environmental assessment of different transport modes for all lifecycle stages | Kirsten Biemann | Institut für Energie- und Umweltforschung Heidelberg gGmbH, D | 18:00 | 05:00 | |
| | 11:30 | Effect of auxiliary usage on bus CO2 emissions through vehicle simulation | Nikiforos Zacharof | Laboratory of Applied Thermodynamics, Aristotle University of Thessaloniki, | 18:30 | 05:30 | |
| | 12:00 | Understanding the Fuel Consumption Gap Using Self-Reported User and Smartphone Application Datasets | Markos Ktistakis | European Commission, Joint Research Centre, Ispra | 19:00 | 06:00 | |
| 12:30 | Break & Exhibition | | | 19:30 | 06:30 | | |

More info and registration on:
<https://www.tapconference.org/>

Deadline for registration: 14.03.2021



| Date | Time | Session B (Vehicle GHG Emissions) | Author | Affiliation | | |
|------------|--------------------|--|--------------------|--|-------|-------|
| 31.03.2021 | 09:00 | VECTO Meets Real World: A Comparison of Fuel Consumption Determined by VECTO with Data from Fleet Management Systems | M. Röck | IVT/TU Graz, A | 16:00 | 03:00 |
| | 09:30 | Hybrid Electric buses' energy performance under various traffic conditions | Sokratis Mamarikas | Aristotle University of Thessaloniki, Department of Mechanical Engineering | 16:30 | 03:30 |
| | 10:00 | From road to lab fuel consumption: Usage of a simulation approach to reconstruct the lab values with real world driving data | Dimitrios Komnos | Aristotle University of Thessaloniki | 17:00 | 04:00 |
| | 10:30 | Break & Exhibition | | | 17:30 | 04:30 |
| | | Session B (Emission and Air Quality Modelling) | Author | Affiliation | | |
| | 11:00 | Large eddy simulation of moving, instantaneous traffic emissions at a neighbourhood scale | Huw Woodward | Centre for Environmental Policy, Imperial College London, UK | 18:00 | 05:00 |
| | 11:30 | A new methodology using Open Data to estimate transport emissions as input for air quality models: The "ClairCity approach" | Kris Vanherle | Researcher at Transport & Mobility Leuven (TML), BE | 18:30 | 05:30 |
| | 12:00 | An advanced forecasting system for an efficient application of VSL to reduce traffic emissions and air pollution | Ilaria Todeschini | Cisma srl, Italy | 19:00 | 06:00 |
| 12:30 | Break & Exhibition | | | 19:30 | 06:30 | |

| Date | Time | Session A (Non Road Emissions) | Author | Affiliation | | |
|------------|-------|--|-----------------|---|-------|-------|
| 31.03.2021 | 13:30 | RDE of NRRM with various fuels comparing portable and stationary measurement methods | Johannes Ettl | Technology and Support Centre (TFZ), | 20:30 | 07:30 |
| | 14:00 | Development of real-world emission inventory of aviation transportation in China | Jingran Zhang | School of Environment, Tsinghua University, Beijing; CN | 21:00 | 08:00 |
| | 14:30 | Particulate matter emissions in railway operation – in-situ measurements in an Austrian railway tunnel | Daniel Fruhwirt | IVT/TU Graz, A | 21:30 | 08:30 |
| | 15:00 | Break & Exhibition | | | 22:00 | 09:00 |

| Date | Time | Session B (Road Emissions) | Author | Affiliation | | |
|------------|-------|---|------------------|---|-------|-------|
| 31.03.2021 | 13:30 | Emissions of Passenger Cars in Special Driving Situations | Danilo Engelmann | University of Applied Sciences, 2500 Biel-Bienne, CH | 20:30 | 07:30 |
| | 14:00 | Does renewable biofuel reduce diesel exhaust particulate emissions? | Liisa Pirjola | Aerosol Physics Laboratory, Physics Unit, Tampere University, FIN | 21:00 | 08:00 |
| | 14:30 | Real-World CO2 and NOX Emissions from Refrigerated Vans | Zhuoqian Yang | Institute for Transport Studies, University of Leeds | 21:30 | 08:30 |
| | 15:00 | Break & Exhibition | | | | |

| Date | Time | Session A (Emissions from Ports and Shipping) | Author | Affiliation | | |
|------------|--|--|--|--|-------|-------|
| 01.04.2021 | 09:00 | Detecting Cheating with Sulfur Dioxide Standards in the Shipping Industry | Seema Kakade | University of Maryland School of Law | 16:00 | 03:00 |
| | 09:30 | Monitoring of ship emissions to enforce environmental regulations. The SCIPPER project. | Leonidas Ntziachristos | AUTH | 16:30 | 03:30 |
| | 10:00 | Real Sailing Emissions for maritime vessels using sensors and satellite data transmission | Ruud Verbeek | TNO | 17:00 | 04:00 |
| | 10:30 | Break & Exhibition | | | | |
| | | Session A (Continue Non-Road / Road Emission Modelling) | Author | Affiliation | | |
| | 11:00 | Estimating Emissions from Non-road Construction Machineries and Its Uncertainty Analysis: A Case Study in Nanjing, China | Tiezhu Li | School of Transportation Engineering, Southeast University, Nanjing, China | 18:00 | 05:00 |
| | 11:30 | A novel real driving emissions mapping model at a road-segment scale | Mohamed Laraki | IFP Energies nouvelles | 18:30 | 05:30 |
| 12:00 | Lower emissions from existing cars: personalised advice based on emission maps | René van Gijlswijk | TNO - Netherlands Organisation for Applied Scientific Research | 19:00 | 06:00 | |

| Date | Time | Session A (Emission Monitoring) | Author | Affiliation | | |
|------------|--|---|---|---|-------|-------|
| 01.04.2021 | 09:00 | Portable, on-board FTIR spectrometers: A universal tool for real-world monitoring of greenhouse gases, reactive nitrogen compounds, and other gaseous pollutants? | Michal Vojtisek | Czech Technical University in Prague | 16:00 | 03:00 |
| | 09:30 | A virtual PEMS for Eco Driver training | Martin Opetnik | TU Graz | 16:30 | 03:30 |
| | 10:00 | On-board monitoring (OBM) of NOx emissions for heavy-duty vehicle in China | Shaojun Zhang | School of Environment, Tsinghua University, Beijing; CN | 17:00 | 04:00 |
| | 10:30 | Break & Exhibition | | | | |
| | | Session A (Emission Reduction) | Author | Affiliation | | |
| | 11:00 | Impact on mobility and environment in six European cities due to the introduction of Electrified L-category Vehicles – The ELVITEN project | Maria Georgakaki | Emisia S.A., Thessaloniki | 18:00 | 05:00 |
| | 11:30 | Emissions reductions benefits from the penetration of PHEVs in Flanders, Belgium | Giorgos Mellios | EMISIA SA, Greece | 18:30 | 05:30 |
| 12:00 | Impacts to Emissions and Air Quality of Electric Vehicles in Denmark in 2030 | S.S. Jensen, | Aarhus University, Department of Environmental Science, Denmark | 19:00 | 06:00 | |

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| 01.04.2021 | 12:30 | Closing Remarks and End of the Conference | Stefan Hausberger | | | |
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