



# International Transport and Air Pollution Conference

## Programme TAP 2021; Update from 30.03.2021

Date	Time (CET)	Plenary Session, Chairmen: Stefan Hausberger and Giorgos Fontaras	Author	Affiliation	HKT	NYT
30.03.2021		Chairman: Stefan Hausberger (TUG)				
	09:30	Welcome, Introduction and coffee (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				
		Chairman: Åke Sjödin (IVL)				
	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		Chairman: Zisis Samaras (AUTH)					
Parallel Session A	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		
			Chairman: Robin Vermeulen (TNO)				
	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	Joachim Demuyne, L. Sileghem	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		Chairman: Peter Sturm (TUG)					
Parallel Session B	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-analyt, 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		
			Chairman: Nicolas Moussiopoulos (AUTH)				
	15:20	Using modelling to improve Air Quality: The Concawe Urban Air Quality Studies	Athanasios Megaritis	Concawe, 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		Chairman: Stefan Hausberger (TUG)					
Parallel Session A	09:00	Cancelled by author: Mobile Source Air Toxics Impacts In Urban Area – A Case Study in Taiwan	Jiun-Horng Tsai	National Cheng Kung University, Taiwan,	16:00	03:00	
	09:30	Cancelled by author: 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		
			Chairman: Giorgos Fontaras (JRC)				
	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:  
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Date	Time	Session B (Vehicle GHG Emissions)	Author	Affiliation	HKT	NYT
31.03.2021		<i>Chairman: Martin Rexels (TUG)</i>				
Parallel Session B	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
		<b>Session B (Emission and Air Quality Modelling)</b>	<b>Author</b>	<b>Affiliation</b>		
		<i>Chairman: Leonidas Ntziachristos (AUTH)</i>				
	11:00	Conventional Engine Vehicles Model for Real-World Fuel Consumption Estimation	Pierre Michel	IFP Energies nouvelles	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
	Cancelled by author	An advanced forecasting system for an efficient application of VSL to reduce traffic emissions and air pollution	Iaria Todeschini	Cisma srl, Italy		
12:30	Break & Exhibition			19:30	06:30	

Date	Time	Session A (Non Road Emissions)	Author	Affiliation	HKT	NYT
31.03.2021		<i>Chairman: Norbert Ligterink (TNO)</i>				
Parallel Session A	13:30	RDE of NRMM 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	Detecting Cheating with Sulfur Dioxide Standards in the Shipping Industry	Matt Haber, Seema Kakade	University of Maryland School of Law	21:30	08:30
	15:00	Shifted from 1.4.: Estimating Emissions from Non-road Construction Machineries and Its Uncertainty Analysis: A Case Study in Nanjing, China	Ran Tu (Tiezhu Li)	School of Transportation Engineering, Southeast University, Nanjing, China	22:00	09:00
	15:30	Break & Exhibition			22:30	09:30

Date	Time	Session B (Road Emissions)	Author	Affiliation	HKT	NYT
31.03.2021		<i>Chairman: Jon Andersson (Ricardo)</i>				
Parallel Session B	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	HKT	NYT
01.04.2021		<i>Chairman: Jens Borken (IIASA)</i>				
Parallel Session A	09:00	Particulate matter emissions in railway operation – in-situ measurements in an Austrian railway tunnel	Daniel Fruhwirt	IVT/TU Graz, A	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				
		<b>Session A (Continue Non-Road / Road Emission Modelling)</b>	<b>Author</b>	<b>Affiliation</b>		
		<i>Chairwoman: Carol Wong (HKEPD)</i>				
	11:00	A novel real driving emissions mapping model at a road-segment scale	Mohamed Laraki	IFP Energies nouvelles	18:00	05:00
	11:30	Presentation shifted to 31.3. at 15:00 in Session A	Tiezhu Li	School of Transportation Engineering, Southeast University, Nanjing, China	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 B (Emission Monitoring)	Author	Affiliation	HKT	NYT
01.04.2021		<i>Chairman: Robin Smit (DES/UTS)</i>				
Parallel Session B	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				
		<b>Session B (Emission Reduction)</b>	<b>Author</b>	<b>Affiliation</b>		
		<i>Chairman: James Tate (UNL)</i>				
	11:00	Emissions reductions benefits from the penetration of PHEVs in Flanders, Belgium	René van Gijlswijk (Giorgos Mellios)	EMISIA SA, Greece	18:30	05:30
	11:30	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
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	

01.04.2021	12:30	Closing Remarks and End of the Conference	Stefan Hausberger			
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More info and registration on:

