



iTEM6

Sixth International Transport Energy Modeling (iTEM) Consortium Workshop

June 28-29, 2023

2360 Cherahala Blvd.

Knoxville, Tennessee 37932 | USA



Format: In-Person with Virtual Participation

Time-zone for Knoxville, Tennessee: US Eastern Daylight Saving Time (GMT-4 and CET-6)

Day 1 – Wednesday, June 28, 2023
Global and Regional Scenarios

Session	Start – End	Topic	Speakers / Panelists / Chairs
	8:30 – 8:45 (14:30-14:45 CET)	Welcome and introductions	ORNL (David McCollum, Robert Wagner) and iTEM Organizers
1.1	8:45 – 10:00 (14:45-16:00 CET)	iTEM-6 scenario comparisons	<u>Speaker</u> : Page Kyle (PNNL) + ITF <u>Panel</u> : Oreane Edelenbosch (Utrecht; remote)
	10:00 – 10:30	Power break	
1.2	10:30 – 11:30	Keynote – U.S. new fuel economy and tailpipe emissions standards: from modeling to policy	<u>Speaker</u> : David Greene (University of Tennessee) <u>Panel</u> : Anthony Eggert (ClimateWorks Foundation; remote); Francois Cuenot (UNECE, remote)
	11:30 – 1:15	Lunch Break + Tours at Hardin Valley Campus	PEEM and GRID-C (11:50-12:35) Off-Road Engine Facility (12:40-1:10)
1.3	1:15 – 3:00	1. Transport Fuel Pathways in the IEA Net Zero by 2050 Scenario 2. BP transport scenarios 3. Annual Energy Outlook and International Energy Outlook	<u>Chair</u> : Marc Melaina (US DOE; remote) <u>Speaker 1</u> : Jacob Teter (IEA; remote) <u>Speaker 2</u> : Robert Spicer (BP) <u>Speaker 3</u> : John Maples (US EIA)
	3:00 – 3:30	Power break	
1.4	3:30 – 5:00	1. Global ZEV modeling and measures to reduce the gap with a 1.5 °C compatible pathway 2. BloombergNEF Electric Vehicle Outlook (EVO): electrification, shared mobility, autonomous driving	<u>Chair</u> : Fiona Tanuwidjaja (ClimateWorks Foundation; remote) <u>Speaker 1</u> : Arijit Sen (ICCT) <u>Speaker 2</u> : Andrew Grant (BloombergNEF; remote) <u>Panel</u> : Pierpaolo Cazzola (Columbia University; remote)
	6:00	Host-provided dinner in downtown Knoxville near hotel (Vida Restaurant) <i>Bus transportation provided from ORNL back to downtown Knoxville.</i>	

Day 2 – Thursday, June 29, 2023

Methods, Modes and Technologies

Session	Start – End	Topic	Speakers / Panelists / Chairs
2.1	8:30 – 10:15 (14:30-16:15 CET)	1. U.S. day cab, long-haul, and bus markets in 2020-2050 2. A comparative study of infrastructure needs for heavy-duty long-haul trucks in the EU 3. Hydrogen technology is unlikely to play a major role in sustainable road transport	<u>Chair</u> : Eamonn Mulholland (ICCT, remote) <u>Speaker 1</u> : Shawn Ou (ORNL) <u>Speaker 2</u> : Sonia Yeh (Chalmers) <u>Speaker 3</u> : Patrick Plötz (Fraunhofer ISI, remote) <u>Panel</u> : Abbas Ghandi (S&P Global)
	10:15 – 10:45	Power break	
2.2	10:45 – 12:30 (16:45-18:30 CET)	1. Representing the air transport sector in macroeconomic models 2. (Limited) volumes and e-fuels ramp-up scenarios vs. demands in industry and aviation/shipping 3. Environmental and thermodynamic considerations pertaining to ocean-based energy carriers for a low-carbon global economy	<u>Chair</u> : Paul Leiby (ORNL) <u>Speaker 1</u> : Rafael Garaffa and Ana Norman (European Commission JRC; remote) <u>Speaker 2</u> : Falko Ueckerdt (PIK Potsdam; remote) <u>Speaker 3</u> : Page Kyle (PNNL) <u>Panel</u> : Andres Guzman (KAPSARC; remote)
	12:30 – 2:30	Lunch Break + Tours at ORNL Main Campus	OR Leadership Computing (1:10-1:40) ORNL Graphite Reactor (1:40-2:05)
2.3	2:30 – 4:00	1. Transport Data Commons Initiative: Data needs and model output exchange 2. Using data versioning for effective Model Data Management	<u>Chair</u> : Sonia Yeh <u>Speaker 1</u> : Paul Kishimoto (IIASA) + Pierpaolo Cazzola (Columbia University; remote) <u>Speaker 2</u> : Shetty Pavithra (KAPSARC) <u>Panel</u> : Ross Wang (ORNL)
	4:00 – 4:15	Break	
2.4	4:15 – 5:00	Final thoughts and Closing remarks	<u>Chair</u> : David McCollum (ORNL) <u>Participants</u> : All

5:00 Bus transportation provided from ORNL back to hotel in downtown Knoxville.