# Day 1 – Wednesday, June 28, 2023

## Global and Regional Scenarios

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<td>8:30 – 8:45</td>
<td>Welcome and introductions</td>
<td>ORNL (David McCollum, Robert Wagner) and iTEM Organizers</td>
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| 1.1 8:45 – 10:00 | iTEM-6 scenario comparisons | Speaker: Page Kyle (PNNL) + ITF  
Panel: 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 | Speaker: David Greene (University of Tennessee)  
Panel: 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 | Chair: Marc Melaina (US DOE; remote)  
Speaker 1: Jacob Teter (IEA; remote)  
Speaker 2: Robert Spicer (BP)  
Speaker 3: 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 | Chair: Fiona Tanuwidjaja (ClimateWorks Foundation; remote)  
Speaker 1: Arijit Sen (ICCT)  
Speaker 2: Andrew Grant (BloombergNEF; remote)  
Panel: Pierpaolo Cazzola (Columbia University; remote) |
| 6:00 | Host-provided dinner in downtown Knoxville near hotel (Vida Restaurant)  
*Bus transportation provided from ORNL back to downtown Knoxville.* |

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## Session 2.1 – 8:30 – 10:45
### Start – End: 8:30 – 10:15 (14:30-16:15 CET)
### Topic:
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
### Speakers:
- **Chair:** Eamonn Mulholland (ICCT, remote)
- **Speaker 1:** Shawn Ou (ORNL)
- **Speaker 2:** Sonia Yeh (Chalmers)
- **Speaker 3:** Patrick Plötz (Fraunhofer ISI, remote)
### Panel:
- Abbas Ghandi (S&P Global)

## Session 2.2 – 10:45 – 12:30
### Start – End: 10:45 – 12:30 (16:45-18:30 CET)
### Topic:
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
### Speakers:
- **Chair:** Paul Leiby (ORNL)
- **Speaker 1:** Rafael Garaffa and Ana Norman (European Commission JRC; remote)
- **Speaker 2:** Falko Ueckerdt (PIK Potsdam; remote)
- **Speaker 3:** Page Kyle (PNNL)
### Panel:
- Andres Guzman (KAPSARC; remote)

## Lunch Break – 12:30 – 2:30
### + Tours at ORNL Main Campus
- OR Leadership Computing (1:10-1:40)
- ORNL Graphite Reactor (1:40-2:05)

## Session 2.3 – 2:30 – 4:00
### Start – End: 2:30 – 4:00
### Topic:
1. Transport Data Commons Initiative: Data needs and model output exchange
2. Using data versioning for effective Model Data Management
### Speakers:
- **Chair:** Sonia Yeh
- **Speaker 1:** Paul Kishimoto (IIASA) + Pierpaolo Cazzola (Columbia University; remote)
- **Speaker 2:** Shetty Pavithra (KAPSARC)
### Panel:
- Ross Wang (ORNL)

## Break – 4:00 – 4:15

## Session 2.4 – 4:15 – 5:00
### Start – End: 4:15 – 5:00
### Topic:
Final thoughts and Closing remarks
### Speakers:
- **Chair:** David McCollum (ORNL)
- **Participants:** All

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