Agenda - Day 1

September 30th, 2020

On-line: Zoom Webinar // KTH Campus, KTH OpenLab, Valhallavägen 79, 114 28 Stockholm

09:45-10:15 Coffee & Preparations, KTH OpenLab (limited number of persons)

10:15-10:45 Opening by CCGEx Director
CCGEx Summary Report on Research Activities

10:45-11:30 Keynote Speaker 1: Prof. Ricardo Martinez-Botas: “What drives Road Transport CO2? What about vehicle emissions?”, Imperial College London, UK

11:30-13:00 LUNCH BREAK

Part 1 Ongoing Projects

13:00-14:15 Research Area: integrated Cold side (iCOLD)
- Mihai Mihaescu: intro + overview (15 minutes).
  - Emelie Trigell, KTH-Mek (15+5 min). “Turbocharger Compressor response to downstream perturbations using Large Eddy Simulations.”
  - Stefan Sack, KTH-MWL (15+5 min). “Experimental acoustic characterization of compressors in turbochargers.”

14:15-14:30 COFFEE BREAK

14:30-15:40 Research Area: integrated HOTSIDE (iHOT)
- Michael Liverts: intro + overview (15 minutes).
  - Roberto Mosca, KTH-Mek (15+5 min). “Aerothermodynamics of radial turbines under engine like conditions.”

15:45 Closing Day 1

End of Day 1
Agenda - Day 2

October 1st, 2020

Zoom Webinar, KTH Campus, KTH OpenLab (limited number of persons)

10:00-10:30  Coffee & Preparations, KTH OpenLab
10:30-10:35  Day 2 Agenda presentation by CCGEx Director
10:35-11:30  Research Area: Engine After Treatment (EAT)
-  Mikael Karlsson: intro + overview (15 minutes).
  -  Ghulam M. Majal, KTH-MWL/Mek (15+5 min). “Particle behavior in corrugate pipe like geometries.”
11:30-13:00  LUNCH BREAK
13:15-14:30  Research Area: Power Train System Integration (SYSINT)
-  Hanna Bernemyr: intro + overview (15 minutes)
  -  Senthil Krishnan Mahendar, KTH-ICE (15+5 min). “Mitigation Knock in Heavy Duty Spark Ignition Engines.”
  -  Beichuan Hong (15+5 min.) “Thermal analysis for flow losses in ICE gas-exchange systems.”
14:30-14:50  CCGEx Associated Projects:
  Shyang Maw Lim & Mihai Mihaescu, KTH-Mek (15+5 min.). “Numerical and experimental investigations of turbocharger turbine aerodynamics.”
14:50-15:00  COFFEE BREAK
15:00-15:40  Keynote Speaker 2: Dr. Peter Kelly Senecal: “The use of CFD and HPC to support a diverse set of propulsion technologies.”, Convergent Science Inc., USA.
15:45  Closing Day 2 for presentations

Part 2
15:45-17:00  IAB meets CCGEx leadership team & CCGEx Board

End of Day 2