**ECN9: Engine Combustion Network 9th Workshop at National Research Council, Institute of Science and Technologies for Sustainable Energy and Mobility (STEMS)**

**Friday 8th and Saturday 9th Sept 2023**

**8 Sept 2023**

8:00 Registration/check-in

8:30 Welcome by Luigi Allocca & Alessandro Montanaro (hosts)

9:00 Engine Combustion Network Directions

Lyle Pickett (Sandia), Gilles Bruneaux (IFPEN), Raúl Payri (CMT)

Technical program (includes presentation and discussion in the time allowed)

10:00--12:30 **Ammonia injection and combustion,** Michele Battistoni (Perugia)& Jose Maria Garcia (CMT)

(11:00-11:30 Coffee break)

12:30-14:00 Lunch

14:00-16:00 **Spray G and Spray M research (intake injection) using methanol and PACE-20,** Paul Lien (Darmstadt) & Lyle Pickett (Sandia)

16:00-17:00 **OME and methanol diesel combustion**, Julien Manin (Sandia)

18:00 Reception/Dinner

**9 Sept 2023**

08:00-09:00 Welcome / breakfast

09:00-11:00 **Hydrogen Injection**, Noud Maes (Eindhoven)

(10:00-10:30 Coffee break)

11:00-12:30 **Battery safety and thermal runaway**, Michele Bardi (IFPEN)& Antonio Garcia Martinez (CMT)

12:30-14:00 Lunch

14:00-16:00 **Future directions** (all)

16:00-20:00 **ECN fun activity**