

20th Anniversary Celebration & Conference of the *Aerosol & Particle Technology* Laboratory

aptL 2.0

June 2-3, 2016, Thessaloniki, Greece

CERTH Conference Hall, 6th km Charilaou-Thermi Road, Thermi

PROGRAM

1 st DAY - Thursday, June 2 nd 2016	
14:00–16:00	20 years of APTL: Past, Present and Future
	APTL and Nanoparticle Technology
	APTL and Clean Engines & Emission Control
	APTL and Low/Zero-Carbon Energy
16:00–16:30	<i>Coffee break</i> at APTL Exhibition (CERTH Library)
16:30–17:30	Focus Discussion: Challenges and Opportunities for Collaboration
17:30–18:30	APT Laboratory Tour
19:30	<i>Celebration Dinner</i> at NOESIS Museum (transportation from CERTH)

2nd DAY - Friday, June 3rd 2016

Session A	<i>Chaired by Athanasios G. Konstandopoulos, APTL/CPERI/CERTH, Greece</i>
9:30-10:30	Plenary Lecture by Prof. David KITTELSON , University of Minnesota (UoM), USA <i>"Nanoparticles from engines: past, present, and future"</i>
10:30-10:50	Mr. Andreas MAYER , Emission Consulting TTM, Switzerland <i>"Orders of magnitude for health, and how to guarantee emission stability with DPF+SCR"</i>
10:50-11:10	Mr. Kingsley REAVELL , Cambustion Ltd, United Kingdom <i>"Burner rig testing of DPF and GPFs and comparison of soot cake pressure drop models"</i>
11:10-11:30	Dr. Andrew YORK , Johnson Matthey plc, United Kingdom <i>"Magnetic Resonance Imaging for investigating diesel particulate filters"</i>
11:30-12:00	<i>Coffee break</i>
12:00-12:20	Prof. Jose L. CASTILLO , Universidad Nacional de Educacion a Distancia, Spain <i>"Structure of granular materials prepared from aerosol nanoparticles"</i>
12:20-12:40	Prof. Pedro L. GARCIA-YBARRA , Universidad Nacional de Educacion a Distancia, Spain <i>"Electrospray route to manufacture ultra-low Pt-loaded PEM fuel cells electrodes"</i>
12:40-13:00	Dr. Yannis DROSSINOS , European Commission, Joint Research Centre, Italy <i>"On the mobility of soot aggregates"</i>
13:00-13:20	Dr. Konstantinos ELEFThERiADIS , NSCR "Demokritos", Greece <i>"Aerosol size distribution measurement techniques for Fuchs surface area and applications"</i>
13:20-14:30	<i>Lunch break</i>
Session B	<i>Chaired by Eleni Papaioannou, APTL/CPERI/CERTH, Greece</i>
14:30-14:50	Dr. Silvana DI IORIO , Istituto-Motori CNR, Italy <i>"Influence of engine lubricating oil on particle emissions from gasoline and CNG PFI/DI spark-ignition engines"</i>
14:50-15:10	Dr. Alexandra LOUKOU , Karlsruhe Institute of Technology, Germany <i>"Biofuels and soot formation: From characterisation in lab-scale flames and transparent IC engines with gasoline direct injection to catalysed GPF-regeneration"</i>
15:10-15:30	Dr. Carlo BEATRICE , Istituto-Motori CNR, Italy <i>"Metal nanopowder combustion in engine-like conditions"</i>
15:30-16:00	<i>Coffee break</i>
16:00-16:20	Dr. Martin ROEB , DLR - German Aerospace Center, Germany <i>"Thermochemical technologies for solar energy conversion to produce fuels and chemical commodities"</i>
16:20-16:40	Dr. Angelos LAPPAS , CPERI/CERTH, Greece <i>"Production of high quality bio-oil via fast biomass pyrolysis coupled with ketonization"</i>
16:40-17:00	Dr. Anastasia STAMATIOU , Lucerne University of Applied Sciences, Switzerland <i>"Thermal energy storage and process quality control with phase change materials"</i>
17:00 – 17:15	Concluding Remarks