

APT-STEP WORKSHOP II

Novel Material Technologies for Alternative Powertrains

25-26 February 2016, Thessaloniki, Greece

P R O G R A M

W2 1 st DAY - Thursday, February 25 th 2016		
9:00	9:15	Registration
9:15	9:30	Welcome
S1. Enabling Technologies (nanosynthesis and computational materials)		
9:30	10:00	S1 – Plenary Lecture by Jorma JOKINIEMI (<i>Univ. of Eastern Finland</i>) <i>“Novel aerosol based methods for Li-ion battery material synthesis”</i>
10:00	10:15	S1 – L1 by George FROUDAKIS (<i>Univ. of Crete</i>) <i>“Hydrogen Storage in Novel Nanoporous Materials for Automotive Applications”</i>
10:15	10:30	S1 – L2 by Athanasios PAPADOPOULOS (<i>PSDI/Centre for Research and Techn. Hellas</i>) <i>“Computer-Aided Molecular Design of Pure and Mixed Working Fluids For Organic Rankine Cycles”</i>
10:30	11:00	Panel discussion
11:00	11:30	Coffee Break / Poster Session

11:30	13:00	Tutorial speech on Electrochemistry by Prof. Constantinos VAYENAS (<i>Univ. of Patras</i>) with Q&A session
13:00	14:30	Lunch break

S2. Challenges in Battery Technologies		
14:30	15:00	S2 - Plenary Lecture by Silvia BODOARDO (<i>Politecnico di Torino</i>) <i>“Materials for electrochemical cells with enhanced performance and new post-lithium ion systems”</i>
15:00	15:15	S2 – L1 Dimitris ZARVALIS (<i>APTL/Centre for Research and Technology Hellas</i>) <i>“Next generation Li-ion batteries: the eCAIMAN project”</i>
15:15	15:30	S2 – L2 Carlotta FRANCIA (<i>Politecnico di Torino</i>) <i>“Li-air pouch cell prototype developed within the STABLE project reaching over 150 cycles in ambient air”</i>
15:30	16:00	Panel discussion
16:00	17:00	Poster session with coffee
20:30		Dinner



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W2 2 nd DAY - Friday, February 26 th 2016		
S3. Challenges in Membrane Electrode Assembly Technologies		
9:30	10:00	S3 - Plenary Lecture Jens Oluf JENSEN (<i>Technical Univ. of Denmark</i>) <i>"Challenges in Membrane Electrode Assembly Technologies"</i>
10:00	10:15	S3 – L1 Dimitris TSIPLAKIDES (<i>Aristotle Univ. of Thessaloniki</i>) <i>"Membrane electrode assemblies for solid polymer water electrolyzers"</i>
10:15	10:30	S3 – L2 Maria DALETOU (<i>Institute of Chemical Engineering Sciences</i>) <i>"Stable and effective electrochemical interfaces for HT PEMFCs"</i>
10:30	11:00	Panel discussion
11:00	11:30	Coffee Break / Poster Session
S4. From Materials to Systems		
11:30	12:00	S4 - Plenary Lecture by Vittorio RAVELLO (<i>Centro Ricerche FIAT</i>) <i>"Hybrid and Electric Vehicles Powertrain E-Components: Challenges and Perspectives. Opportunities for Novel-Improved Materials?"</i>
12:00	12:15	S4 - L1 Peter PRENNINGER (<i>AVL List GmbH</i>) <i>"SOFC Systems for Truck and Small/Medium Power Stationary Applications"</i>
12:15	12:30	S4 - L2 by Paris VOUTETAKIS (<i>PSDI/Centre for Research and Technology Hellas</i>) <i>"Efficient system design and energy management for renewable hydrogen production based on PV power and PEM water electrolysis"</i>
12:30	13:00	Panel discussion
13:00	14:30	Lunch break
14:30	16:00	CERTH tour
16:00		End of workshop

