## 2<sup>nd</sup> Annual Conference SCCER Mobility | 27 August 2015 | Workshop



Room

Time Slot

## Topics submitted for the morning session

No. Topic For further details, please see the board in the Proposed by entrance area of the auditory ML E 12

	Session 1   GEP Pavillon   10.45-11.15		
01	Integration of electric vehicles in local smart grids	<b>Alexandra Asfour,</b> St. Gallisch- Appenzellische Kraftwerke SAK	GEP Pavillon 10.45-11.15
03	Fueling stations for battery-electric and fuel cell vehicles	Christopher Dennison (et al.), Laboratoire d'Electrochimie Physique et Analytique, EPFL	GEP Pavillon 10.45-11.15
16	Integration of mobility in current energy networks and future energy networks, dominated by fluctuating renewable energy sources	<b>Gil Georges,</b> LAV ETHZ	GEP Pavillon 10.45-11.15
18	Renewable fuels for future combustion-based mobility	Konstantinos Boulouchos, Christoph Barro, LAV ETHZ	GEP Pavillon 10.45-11.15
28	Verstärkung des Systemzusammenspiels ÖV-MIV und miteinbezogene Fragestellungen (Zusammenspiel Netz, Ladeinfrastruktur, Speicherarten, etc.)	Vinzenz Härri, CC IIEE HSLU	GEP Pavillon 10.45-11.15
26	Green-ITS: Technical and systemic measures for increasing the overall traffic efficiency and carbon footprint	Vinzenz Härri, CC IIEE HSLU	GEP Pavillon 10.45-11.15
	Session 1   HG F 33.1   10.45-11.15		
07	Finalization of SCCER-Mobility scenarios for phase I (and beyond)	Ramachandran Kannan and Rashid Waraich, Laboratory for Energy Systems Analysis, PSI	HG F 33.1 10.45-11.15
80	Interdisciplinary criteria and indicators for the evaluation of mobility options	<b>Stefan Hirschberg,</b> Laboratory for Energy Systems Analysis, PSI	HG F 33.1 10.45-11.15
15	Portfolio optimization for commercial, heavy-duty vehicle fleets	Gil Georges, LAV ETHZ	HG F 33.1 10.45-11.15
	Session 1   HG E 41   10.45-11.15		
о6	Bioinspired composites by vacuum assisted magnetic alignment	Madeleine Grossman, Complex Materials, ETH Zurich	HG E 41 10.45-11.15
09	Thermal management of lithium-ion batteries	Max Stöck and Gerhard Rizzo, Institute for the Development of Mechatronic Systems, NTB	HG E 41 10.45-11.15
14	Non-propulsive energy demand in private and commercial mobility, including freight: assessing the related energy demand and effectively reducing it	<b>Gil Georges,</b> LAV ETHZ	HG E 41 10.45-11.15
29	Lightweight, affordable, sustainable, multifunctional materials for mobility	Clemens Dransfeld, FHNW	HG E 41 10.45-11.15

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	Session 2   GEP Pavillon   11.20-11.50		
04	Promotion of fuel cell (FC) based vehicles and technologies in Switzerland	<b>Jaka Dujc,</b> Institute of Computational Physics, ZHAW	GEP Pavillon 11.20-11.50
05	Fuel cell powered vehicles	Jürgen Schuhmacher, Institute of Computational Physics, ZHAW	GEP Pavillon 11.20-11.50
19	Low cost automotive fuel cells	Pierre Boillat, Electrochemistry Laboratory (LEC), PSI	GEP Pavillon 11.20-11.50
20	Advanced Battery Charging Technologies: Topologies, Control & Communication Algorithms and Product Development	<b>Kurt Schenk, Andrea Vezzini,</b> NTB and BFH	GEP Pavillon 11.20-11.50
21	Multilevel DC-DC Converters for High Voltage Battery Storage Applications using 2nd-life batteries from automotive applications	<b>Jürgen Biela, Andrea Vezzini,</b> BFH and ETHZ	GEP Pavillon 11.20-11.50
27	Leistungsspitzenreduktion und bessere Rekuperation von Bremsenergie in Eisenbahnsystemen	Vinzenz Härri, CC IIEE HSLU	GEP Pavillon 11.20-11.50
	Session 2   HG F 33.1   11.20-11.50		
02	Effects from green taxation on vehicle usage	Adan L. Martinez-Cruz, Centre for Energy Policy and Economics	HG F 33.1 11.20-11.50
10	Integration of socio-economic aspects with mobility and energy transformation	<b>Merja Hoppe,</b> Institute of Sustainable Development (INE), ZHAW	HG F 33.1 11.20-11.50
13	Mobility and driving behavior as key aspects for energy efficiency	Gil Georges, LAV ETHZ	HG F 33.1 11.20-11.50
	Session 2   HG E 41   11.20-11.50		
11	Future emission legislations and their impact on engine calibration and control	Panagiotis Kyrtatos, LAV ETHZ	HG E 41 11.20-11.50
12	Three-dimensional Lattice Boltzmann (LB) modeling of two phase flows in PEMFCs	<b>Ioannis Mantzaras,</b> Combustion Research, PSI	HG E 41 11.20-11.50
17	Predictive modeling and simulations of multiphase and compressible flows	Ilya Karlin, LAV ETHZ	HG E 41 11.20-11.50