

**12 – 13 May 2011**

**National Technical Library (NTL), Technická 6, Prague, CZ**

### CONGRESS GOALS

- Make a real contribution to the future green transport society
- Establish a Central European forum for information Exchange in electromobility
- Exchange deep expert knowledge
- Accelerate deployment of progressive technologies

### CONGRESS GENERAL CHAIR

**Prof. Dr. Ing. Miroslav Svítek**

Dean of Faculty of Transportation Sciences, Czech Technical University in Prague

### CONGRESS ASSOCIATED CHAIRS

Prof. Franz I.S. Ko, Ph.D.  
Director General, AICIT (Advanced Institute of Convergence Information Technology), Dept. of Computer and Multimedia, Dongguk University, Korea

Prof. Eduard Babulak, D.Sc., Ph.D., FRSA, FBCS  
Director of Japan Pacific ICT Centre and Chair of PacCERT, Head of School of Computing, Information and Mathematical Sciences, University of South Pacific, Fiji

Prof. Dr. Léon Rothkrantz  
Multi-Model Communication and Man-Machine Interaction Group, Delft University of Technology, The Netherlands

### Main Organizer



FACULTY OF TRANSPORTATION SCIENCES

### Cooperating Institution



### General Partners



### Bronze Partner



### Partners



ŠKODA



### Exhibitor



## Congress Programme

<b>12.5.</b>	<b>Congress Opening</b>	<b>Balling's hall</b>
8:30	Participant's registration	
9:00	Participant's welcome, opening speeches	
10:30	Coffee break	
<b>12.5.</b>	<b>Electromobility &amp; Human Development</b>	<b>Balling's hall</b>
11:00	How a city rises Zdeňek Říha, CTU in Prague	
	The new energy sources visions to next 2 decades František Hrdlička, CTU in Prague	
	Expected trends in the reduction of vehicle emissions with increasing replacement of combustion engines with electric motors Michal Vojtíšek, CTU in Prague, Technical University of Liberec	
	The benefit of hybrid engine vehicles' use under urban traffic conditions Kotek M., Růžička M., Matušů R., Czech University of Life Sciences Prague	
	CEZ E-mobility Pilot Project Tomáš Chmelík, ČEZ a.s.	
	E.ON mobility solution Petr Koláček, E.ON Česká republika, s.r.o.	
13:00	Lunch	
<b>12.5.</b>	<b>Batteries, Charging and Infrastructure</b>	<b>Balling's hall</b>
14:00	Batteries and fuel cells - E-mobility concepts compared von Unwerth T., Winkler J., Technical University of Chemnitz	
	Problems of Electro-vehicle Power Supply Petr Svoboda, SPEL, a.s.	
	Rittal charging stations and the outlook in building of charging infrastructure Jaromír Zelený, Rittal Czech, s.r.o.	
	Main customer expectations related to e-car purchasing Machan J., Bakošová D., Škoda Auto a.s.	
15:30	Coffee break	
<b>12.5.</b>	<b>Business and Technical Aspects of Electromobility</b>	<b>Balling's hall</b>
16:00	Alternative propulsion for urban vehicles (hybrid, trolleybus, electrobus) Petr Kasenčák, Škoda Electric a.s.	
	First experiences from "Electromobile Prague" project and its potential for further development Tomáš Studeník, Tili Czech Republic, s.r.o.	
	A rental system of electrical cars in Amsterdam Léon Rothkrantz, Delft University of Technology, The Netherlands Defence Academy	
	The eMobility Landscape Study - eMobility Predictions for Cities in 2020 Feix K., Schober C., Kapsch Telematic Services spol. s r.o.	
	A Energetic Measurement on the City Electrobus Jaroslav Opava, CTU in Prague	
17:00	<b>Discussion Panel: Electromobility Dynamics</b>	
18:00	Cocktail at the end of the first Congress day sponsored by <b>Kapsch Telematic Services spol. s r.o.</b>	
<b>12.-13.5.</b>	<b>Exhibition</b>	
	Each participant can visit the exhibition of congress partners. There will be installed a charging station and for demonstration or testing will be available cars: Škoda Octavia Green E Line, Citroën C Zero, Smart ED (E.ON), Tazzari Zero (Tili) and electric scooter e-max 90s (E.ON).	



2nd Congress Day

<b>13.5. Electrovehicle Design</b>		<b>Balling's hall</b>
9:00	Concepts of small city electric vehicles Witold Grzeżożek, Cracow University of Technology	
	New conditions, facts and challenges in e-car development process Petr Kristl, Škoda Auto a.s.	
	Design of Formula Student Electric race car Ondřej Fric, CTU in Prague	
	Light Experimental Electric Vehicle "Electro-buggy" Sýkora P., Bradna J., Houf Z., Hlinovský V., CTU in Prague	
10:30	Coffee break	
<b>13.5. Interaction Between EV and Driver, Safety and Reliability</b>		<b>PC hall 02</b>
9:00	Intelligent Driving Systems – an Overview Václav Matoušek, University of West Bohemia in Plzen	
	Development of user interface in passenger cars: from conventional ones to HEV and EV Petr Bouchner, CTU in Prague	
	Some novel aspects in driver-car interaction reliability in electro-vehicles Mirko Novák, CTU in Prague	
	Sensors and systems which are possible for driver fatigue detection Milan Štork, University of West Bohemia in Plzen	
10:30	Coffee break	
<b>13.5. Electrovehicle Design</b>		<b>Balling's hall</b>
11:00	Photovoltaic power sources in small electric vehicles Stjepanovic A., Faculty of Traffic Engineering Doboj; Stjepanovic S., Telekom Srpske Doboj; Softic F., Bundalo Z., Faculty of Electrical Engineering Banja Luka	
	Some problems of electric vehicles dynamics Kovanda, J., CTU in Prague	
	Analysis of the electric vehicle with the BLDC PM motor in the wheel body Buhr K., Voženílek P., CTU in Prague	
	Summary of measurable traffic properties of pure electric vehicles Michal Kubík, University of West Bohemia in Plzen	
	Vehicle energy management system Bureš Z., Šula M., Přenosil V., Masaryk University	
	Design of Projection System for Simulator of E-mobil Jan Pěkný, CTU in Prague	
	Workplace for longtime performance testing of energy accumulators for EV at CTU in Prague Sadil J., Leso M., CTU in Prague	
13:00	Lunch	
<b>13.5. Interaction Between EV and Driver, Safety and Reliability</b>		<b>PC hall 02</b>
11:00	Investigation of user interfaces in EV – eyetracking approach Ondřej Sýkora, CTU in Prague	
	Impact of electric powering on reliability of drivers interaction with car Faber J., Tichý T., Dobrovolný J., CTU in Prague	
	Influence of mental load on driver's attention Roman Mouček, Tomáš Řondík, University of West Bohemia in Plzen	

	Alcohol and driving safety in electric car Roman Pieknik, CTU in Prague
	Safely Embedded Software and the ISO 26262 Laumer M., Felis S., Mottok J., Kinalzyk D., Scharfenberg G., University of Applied Sciences Regensburg
	Animal and human navigation inside the dynamic environment Blahna K., Vlcek K., Academy of the Sciences of the CR
13:00	Lunch

13.5.	Intelligent Control and Telematic Systems for Electromobility	Balling's hall
14:00	A Distribution System of Electrical Automated Guided Vehicles Léon Rothkrantz, Delft University of Technology, The Netherlands Defence Academy	
	Vehicle's power supply system wiring and control Bureš Z., Šula M., Přenosil V., Masaryk University	
	Control strategies for hybrid and electric vehicles Petr Vysoký, CTU in Prague	
	Control and communications networks in vehicles Tomáš Tůrů, University of Defence in Brno	
15:30	Coffee break	

13.5.	Poster Section	
14:00	First Operation-economical Experiences with Electric-powered Bus in the Prague Public Transit Co. Mojžíš V., CTU in Prague; Zamrazil R., Prague Public Transit Co.; Bulíček J., University of Pardubice	
	Functional reliability aspects in electro-vehicles Mirko Novák, CTU in Prague	
	Hybrid two-stroke motor drive Bureš Z., Šula M., Přenosil V., Masaryk University	
	A contribution to economical and ecological assessment of electromobility Čorňák Š., Braun P., Neumann V., University of Defence in Brno	
	Economic assessment of maintenance works management on the railway electrified lines Kurenkov P. V., Bondarenko T., Samara State University of Transport	
	Model of improvement of the equipment-structure ratio and equipment capability of the transportation-container system of the Russian Federation Oleg Moskvichev, Samara State University of Transport	
	Methodology of organizing of the external reporting reflecting investment activity Artem Krivtsov, Samara State University of Transport	
	High-speed movement on the railways of Russia Polyaeva T.I., Chigareva J.A., Shcherbakova V.A., Samara State University of Transport	
	Overall performance incorporated park of electric locomotives of the railways Levchenko A.S., Kurenkov P.V., Kremnev A.A., Samara State University of Transport	
15:30	Coffee break	

13.5.	Intelligent Control and Telematic Systems for Electromobility	Balling's hall
16:00	C2I and C2C mobile telecommunication solutions and related QoS management Tomas J. Zelinka, CTU in Prague	
	The role of prediction diagnostics in electro-vehicle economy Mirko Novák, CTU in Prague	
	Overview and Evaluation of Fail-Safe and Fault-Tolerant Mechanisms for the Electromobility according to ISO 26262 Braun J., Mottok J., University of Applied Sciences Regensburg; Miedl Ch., Geyer D., AVL Software & Functions GmbH; Minas M., Universität der Bundeswehr München	
17:00	Congress conclusion	



Czech – English simultaneous interpretation will be provided in Balling's hall.  
The official language in the PC Hall 2 will be English.

The programme can be modified without notice.

