2nd European Electric Vehicle Congress
Brussels, 20th – 22nd November 2012

Detailed program

Tuesday 20th November 2012

8.00 - Registration & Welcome Coffee

9.30 - **Opening Session**
Joeri van Mierlo, VUB/ASBE/AVERE, BE

**Welcome words**

EEVC’s mission and goals
Frédéric Vergels, Electri-city.mobi

Setting the scene
Joeri van Mierlo, VUB/ASBE/AVERE

**Worldwide context & EU strategies**

A worldwide concern
Romain Hubert, United Nations ECE WP29 Secretariat
Tali Trigg, International Energy Agency

The Commission’s action plan
Marc Boukerche, European Commission, DG Communications Networks, Content and Technology (CNECT)
Frédéric Sgarbi, European Commission, DG Research and Innovation (RTD)
Ewelina Daniel, European Commission, DG Enterprise and Industry (ENTR)

**Coffee break**

**European tools for clean transport**

Observing Electric Mobility in Europe
Karine Sbirrazzuoli, AVERE, the European Association for Battery, Hybrid and Fuel Cell Vehicles

Stay informed
Isabelle Rivière, AVEM, the Mediterranean Association for Electric Vehicles

*The car industry’s vision*

Petr Dolejsi, ACEA, the European Automobile Manufacturers' Association
The automotive suppliers’ feelings
Friedrich Dempwolff, EUROBAT, the European Storage Battery Manufacturers Association, JCI
Alain Bouscayrol, EPE – ECCE, European Power Electronics and Drives Association, University of Lille

The electricity industry vision
Senan McGrath, Task Force on Electric vehicles of EURELECTRIC, the Association of the Electricity Industry in Europe, ESB ecars

What’s possible at R&D level?
Alberto Pena, Task Force on hybrids and EVs of EARPA, the Association of Automotive R&D Organisations

Platforms
Günter Lugert, EPoSS Executive Committee / ERTRAC, the European Road Transport Research Advisory Council, Siemens

13.00 - Lunch
Panorama, 30th floor

14.00 - Market & Technology Overview: point of view and vision
Mario Conte, ENEA, IT

The benefits of establishing a universal standard for the electric vehicle industry
Andrew Gillbert, Qualcomm/Kwittken Company, UK

The Solaris experience
Pascal Debaille, Bus & Coach Trading SA, BE

Major car manufacturers’ vision
Emma Briec, Renault, FR
Joërg Wind, Daimler, DE
Jean-Luc Deflandre, BYD, BE/CN

Strategy Board on Electric Mobility, DE
Tba, eNOVA

The market for EVs
Peter Harrop, IdTechEx, UK

Don’t forget the LEVs
Annick Roetynck, ETRA, the European Two-wheel Retailers’ Association, BE

15.30 – Coffee break
Foyer
16.00 - Parallel Sessions:
1A: Markets for New Technologies
1B: Energy efficiency and Life cycle analysis
1C: Vehicle design & “Electromobility” systems

Lecture 1A - Markets for New Technologies

Carlo Mol, Flemish Living Lab Electric Vehicles, BE

Indian’s EV Regulatory and Policy Framework “A Case for PRT/GRT”
Sengupta Dibyendu, European Business and Technology Centre, IN

Status of EVs in India and the Roadmap Ahead
Nirankar Saxena, FCCI, IN

International show case for electric mobility in the German Capital region - integrated approach to foster market penetration
Thomas Meissner, eMO Berlin Agency for Electric Mobility, DE

The Swedish National Procurement of EVs and PHEVs
Eva Sunnerstedt, City of Stockholm, SE

Stakeholders’ expectations, interests, and strategies regarding the electric vehicle
Sjoerd Bakker, TU Delft, NL

Lecture 1B - Energy efficiency and Life cycle analysis

Andrés Caldevilla, Denso Automotive, DE

A comparison of the battery electric TU/e Lupo EL and VW Lupo 3L diesel
Bart Lipsch, TU Eindhoven, NL

Energetic, ecologic and economic life-cycle assessment of electrified drivetrains
Christian-Simon Ernst, Institut für Kraftfahrzeuge RWTH Aachen University, DE

LCA of the Recycling of EOL Ford Batteries within Umicore Process
Yazicioglu Begum, Umicore Battery Recycling, BE

Environmental and economic effects of generalized introduction of electric vehicles in Greece
Christoforos Chatzikomis, National Technical University of Athens, GR

Lecture 1C - Vehicle design & “Electromobility” systems

Christian Schmidt, BMW, DE

Accurate robust E-Range prediction
Ben van den Elshout, TNO, NL

Impact of lightweight design on energy consumption and cost effectiveness of alternative powertrain concepts
Martin Redelbach, DLR - German Aerospace Center, DE
A high efficient energy converter for a hybrid vehicle concept
Roman Virsik, German Aerospace Center, DE

Commercial electric vehicles for city distribution: a profitable niche market?
Philippe Lebeau, Vrije Universiteit Brussel, BE

Combining Heating and Range-Extension for Electric Vehicles
Oliver Zirn, TU Clausthal, DE

17.40 - Welcome Reception
Wednesday 21st November 2012

8.00 - Registration & Welcome Coffee

8.30 - Parallel sessions:
   2A: Regional and global introduction scenarios
   2B: Light Electric Vehicles
   2C: Hybrid Vehicles

Lecture 2A - Regional and global introduction scenarios
   Marc-Antoine Carreira da Cruz, Parliament of the Region of Brussels, BE
   Nation’s Room

   The Swedish car movement data project
   Sten Karlsson, Chalmers Univ of Technology, SE

   Phoenix from the ashes: Capturing the economic benefits of a transformative shift to low carbon automobility in the West Midlands region of the UK
   David Jarvis, Coventry University, UK

   Research on electric mobility in Germany: A systematic review of publicly funded projects
   Thomas John, DE

   Green Transportation Corridor Ramallah – Jerusalem – Bethlehem.
   Arie Lavie, CTI-Creative Technologies Israel, IL

   The EV experience in a diverse English region
   Mike Salter, EValu8 Transport Innovations Ltd, UK

   Ways to reduce the environmental impacts of transport
   Jos Dings, Transport & Environment

   ZEC zero emission city project
   Carlo Iacovini, Greenvalue, IT

Lecture 2B - Light Electric Vehicles
   Grigore Danciu, University Politehnica of Bucharest, RO
   Tintoretto Room

   Study & development of pilot project for Electric delivery of fast-food to households. The Domino's pizza delivery pilot with electric scooters
   Ruben Van der Horst, Syntens / Enterprise Europe Network, NL

   Electric scooters for food delivery
   Job van de Kieft, TNO, NL

   Electric Scooter : a Viable Solution for a Clean Urban Environment
   Valerian Crotorescu, University Politehnica of Bucharest, RO
Vehicle for A to B
Walter Janach, Leichtbau Engineering, CH

Evaluation of the "Electrocampus" Transportation System with Light Electric Vehicles
Grigore Danciu, University Politehnica of Bucharest, RO

Lecture 2C: Hybrid Vehicles
Oriol Saperas, Automotive Intelligence Center Fundazioa, ES

Energy consumption potential and cost analysis of different plug in hybrid vehicles architectures in the European and American context
François Badin, IFP, FR

Mild HEV Performance at Micro Hybrid Cost â€” A Low Voltage Lead-Acid Approach
Allan Cooper, European Advanced Lead Acid Battery Consortium, UK

Simulation of optimal regenerative braking strategies on slippery roads for a 3-wheel hybrid vehicle
Didier Mammosser, University of Sherbrooke, CA

Application of an e-machine emulator for power converter tests in the development of electric drives
Stefan Uebener, Daimler AG, DE

Hybrid Powertrain Transmission Models for HIL-Simulation
Stefan Geng, Hochschule Ostfestein-Lippe, DE

Ways of reducing the cost of a plug-in hybrid car
Athanasios G. Mamalis, Project Centre for Nanotechnology and Advanced Engineering, NCSR “Demokritos, GR

10.30 – Coffee Break

11.00 - Parallel sessions:
3A: Good practices
3B: Fuel Cells & hydrogen
3C: Batteries - Modeling

Lecture 3A - Good practices
Paul Tomlinson, Bluemobility, ES

Electric Park System
Mario Gstrein, IIMT - University of Fribourg, CH

Experiences form the operation of 50 EVs during one year in Sweden
Martina Wikström, Royal Institute of Technology, SE

One year monitoring 26 EV's
Job van de Kieft, TNO, NL
Automixte: the hybrid solution for urban transportation
Yves Toussaint, Green Propulsion, BE

Study on Design of Brushless Motor for Direct-Drive Electric Vehicle Applications
Ozgur Ustun, Istanbul Technical University, TR

Lecture 3B - Fuel Cells & hydrogen
Chris Bingham, University of Lincoln, UK

Reducing Fuel Consumption by Control Strategy Optimization of a Series Hybrid Vehice
Hansel Aguilar, Polytechnic University of Madrid, Automobile Research Institute (INSIA UPM), ES

Conversion of Diesel Hummer Vehicle to Electric Vehicle
Arie Lavie, CTI-Creative Technologies Israel, IL

Prototyping, Preproduction, Validation, Homologation of High Temperature PEM Fuel Cell Power Systems for Electric Vehicle Range Extension
Koenraad Grillaert, Transenergy, BE

Hydrogen Fuel Cell Vehicles Powertrain Possible Roles in Europe in the Post Kyoto Perspective
Mario Valentino Romeri, IT

OEM’s Fuel Cell Vehicle Strategy Assessment
Oriol Saperas, AIC SCOPE SL, ES

Lecture 3C - Batteries - Modeling
Uwe Koehler, Johnson Controls Power Solutions Europe, DE

Switched Reluctance Motors: Rare-Earth-Free Motor for Automotive Applications
Saphir Faid, Punch Power Train, BE

Sizing of Passive Cell Balancing System and the Validation Based on Experimental Tests
Mikel Oyarbide Foundation CIDETEC, ES

Magnetic Analysis to Investigate the Causes of Cogging Torque Remaining
Osamu Shimizu, Keio University, JP

EV Battery monitoring - Enabler for TCO and Risk management
Kristian Winge, Syca Mobile Solutions, NL

Virtual Prototyping Tools and Methods to Evaluate the Thermal Behaviour of a Li-Ion Battery for EV/PHEV
Paolo Cicconi, Universita Politecnica delle Marche, IT

Energetic Macroscopic Representation and inversion-based control of a hybrid energy storage system for EVs
Alain Bouscayrol, Université de Lille1, FR

12.30 – Lunch
13.30 - Parallel sessions:
4A: Infrastructure & V2G vehicles
4B: On the way to mobile sustainability!
4C: Batteries - policy & technology

Lecture 4A – Infrastructure & V2G vehicles
Nigel Schofield, University of Manchester, UK

Tintoretto Room

Capability of V2G-enabled plug-in electric vehicles in executing ancillary grid services
Giuseppe Buja, Department of Industrial Engineering, IT

The Plug-in Electric Vehicles Role in Smart Grid Development: a Survey
Alfonso Damiano, Università di Cagliari – DIEE, IT

State-of-the-art in business & service models for charging services: the EVCITY approach
Annelies Delnooz, VITO, BE

Optimization Analysis for EV Infrastructure by Fleet Test
Fumiko Koyanagi, Seikei University, JP

Having a Cutting Point - Testing and Development Environment at TU Dortmund University
Fritz Rettberg, TU Dortmund University, DE

Battery State of Charge and Critical Surface Charge Estimation Based on Electrochemical Model
Using the SVSF
Mohammed Farag, McMaster University, CA

Lecture 4B - On the way to mobile sustainability!
Richard Smokers, TNO, NL

Watteau Room

Feedback from EV drivers
Laurent De Vroey, Electrabel, BE

Impact of driver’s behavior in energy consumption of a battery electric vehicle
Nieves de la Torre, Nebrija University, ES

Castrol InnoVentures - Beyond Lubricants
Hanna Lucas - Hellman, BP Castrol InnoVentures, UK

Business and services models for electric vehicles
Carlos Madina, TECNALIA, ES

Electricity as a transportation fuel: Bridging the gaps in the electric vehicles value chain
Huw Davies, Cardiff University, UK

Get Focus On The Business Of Electric Mobility “A tool to determine the business of electric mobility in a specific region”
Rutger De Vries, University of applied science Amsterdam, NL
Lecture 4C: **Batteries - policy & technology**  
*Alfons Westgeest*, EUROBAT, BE  

*Nation’s Room*

HEV, PHEV & EV market 2011-2025 – Battery is the key  
Christophe Pillot, Avicenne, FR

**Sodium Traction Batteries**  
Renato Manzoni, Fiamm, IT

**Nickel Traction Batteries**  
Björn Riechels, Hoppecke, DE

**Lithium Traction Batteries**  
Uwe Koehler, Johnson Controls Power Solutions Europe, DE

**Lead traction batteries**  
Alessandro Marinelli, Faam, IT

**15:00 - Dialogue sessions**  
D1: Technical Solutions  
D2: Policies and Market Dynamics

**Dialogue D1 - Technical Solutions**  
*François Badin*, IFP Energies nouvelles, FR

Electrical vehicle consumption estimation based on heuristics and MLP artificial neural network  
Ahmed Wefky, University of Alcala, ES

Lithium-ion cell with multiple cathodes for hybrid and plug-in electric vehicles  
Konaganti Vinod Kumar, TVS Motor Company

The Development of the E-Mobility Supply Chain in Europe - Results of the European Project ENEVATE  
Christian-Simon Ernst, Institut für Kraftfahrzeuge RWTH Aachen University, DE

Sound Engineering for Hybrid and Electric Vehicles  
Mathieu Sarrazin, LMS International, BE

Reducing development time of battery thermal management systems and enhancing the system design  
Wouter Beuman, TNO, NL

Development of high energy Li-ion battery system for wireless low floor tram  
Jungmin Park, LGChem, KR

**Modular Integrated EV Axle Drive Unit**  
Saphir Faid, Punch Power Train, BE

**Systems Integration on a Multi-Functional Wheel-Embedded Assembly**  
Joao Weinholtz, IST, PT
A Series-Parallel HEV Control Strategy Combining SOC Control and Instantaneous Optimisation of Equivalent Fuel Consumption
Josko Deur, Faculty of Mechanical Engineering and Naval Architecture, HR

PowerHybrid: an innovative powertrain concept uniting sportiness and environmental awareness with no compromises
Yves Toussaint, Green Propulsion, BE

Evaluation of LiFePO4 batteries using fast-charge and dynamic stress test protocol
David Ansean, University of Oviedo, ES

Measurement and study of DC internal resistance in LiFePO4 batteries
David Ansean, University of Oviedo, ES

Analysis of Adverse Effects on Vehicle Performance Due to Battery Deterioration Installed in BEV and HEV
Yushi Kamiya, Waseda University, JP

Energetic description for the control of an innovative on board fast battery charger for electric vehicles
Xavier Kestelyn, L2EP, Arts et Métiers ParisTech, FR

Design and Construction of a Super Capacitors Module Charger for an electric vehicle
Gerardo Mino Aguilar, BUAP, MX

Improvements in Efficiency and Power Factor Performance of a Non-contact Inductive Power Supply System by Using Capacitors into Track and Pickup Circuits
Yushi Kamiya, Waseda University, JP

Using regenerative braking a must for the environment!
Righolt H.C., Hogeschool Rotterdam, NL

Permanent Magnet Synchronous Motor for an Electric Vehicle
Gerardo Mino Aguilar, BUAP, MX

Static Electrically fault detection system for a permanent Magnet Synchronous Motor in Electric Vehicle
Gerardo Mino Aguilar, BUAP, MX

Design process for a multi-functional wheel-embedded assembly
Joao Pedro, IST-UTL Lisbon, PT

Design of dc-dc Converters with LCL-filters: Impact on Battery and Battery Management System
Sven De Breucker, Vito, BE

A Cell Level Model for Battery Simulation
Suguna Thanagasundram, SG

Energy Efficient Innovations in the Electric Drivetrain of a Lightweight Battery Powered Racecar
Maxime Smets, Formula Group T, BE

Safety of a torque vectoring LKAS on an in-wheel motor electric vehicle
Sebastien Glaser, IFSTTAR, FR
Electric Vehicle Packaging Tool (EVPT) Predicting the effect of battery placement on the vehicle handling and assessing measures in the vehicle setup towards the desired vehicle handling
Roeland M.M. Hogt, Rotterdam University of applied Sciences, NL

Challenges in state-of-charge estimation of high-power LFP cells
Massimo Ceraolo, University of Pisa, IT

Measurement Methodology for Radiated Emissions of Electrical Vehicles in Presence of Noise
Ahmed Wefky, University of Alcala, ES

Dialogue D2 - Policies and Market Dynamics
François Badin, IFP Energies nouvelles, FR

Fiat 500 EV project
Felice Gasperoni, BE

The role of OEMs in the low emission vehicle transition
Joeri Wesseling, Utrecht University, NL

Increasing insight “on the road” in the actual costs of Electric Transport
Jan van de Velde, Rotterdam University, NL

TCO (Total Cost of Ownership & Operation) Transition to Zero Emission Vehicles in Public Transport
Dirk Jan van Swaay, Stichting Zero Emissie Busvervoer, NL

ENEVATE Project - Electric Vehicle Market Drivers and E-Mobility Concepts
Huw Davies, Cardiff University, UK

On the Sensitivity of Driver Behaviour on the State of Batteries within EV Powertrains
Bogdan Rosca, TNO, NL

Ethanol Logistics and Fuel Cell Applications
Egberto Gomes Franco Egberto Universidade do Grande ABC - UniABC BR

Potential Impact of Uncoordinated Domestic Plug-in Electric Vehicle Charging Demand on Power Distribution Network
Huang Sikai, University of Strathclyde, UK

System of recharging infrastructure for captive fleet
Sebastien Jaraba-Heffner, Greenovia, FR

Trajectory Optimization of Electric Vehicles for Eco-Driving Applications
Felicitas Mensing, INSA Lyon, FR

Accurate and cost effective reluctance resolvers
Tom Ocket, TE Connectivity, BE

Electric mobility needs intelligent support
Leoni Bussmann, University Duisburg-Essen, DE
Traffic Prediction: A Comparison of Statistical Learning Approaches
Hélène Le Cadre, Mines ParisTech, FR

How a City Prepares Itself to the Electrification of the Vehicles Case Study - The City of Zurich
Denise Schuler, Protoscar, CH

Towards fact based EV policy making: monitoring BEV and FCEV projects in Europe
Marieke Reijalt HyER, Hydrogen, fuel cells and Electro-mobility in European Regions, BE

Car-sharing and electromobilities
Amaury Ruillere, GrandAngouleme, FR

Benchmarking Regional and National e-Mobility Policy in View of Reducing Market
Fragmentation and Enabling Cross-Border Developments
Peter Troxler, Automobil Netzwerk Schweiz, CH

Standardization in Automotive - System Basis Chips and Partial Networks as examples for energy
savings
Michael G. Wahl, Universitaet Siegen, DE

Summer vacation with an EV 2011 and PHEV in 2012
Eva Sunnerstedt, City of Stockholm, SE

17.00 – Parade, Press conference, Ride & Drive

19.30 – Gala Dinner

Please:
– note that separate registration was requested, so make sure you have appropriate voucher to attend
– be aware that the venue is not the Sheraton but “Autoworld Museum”, Parc du Cinquantenaire 11, 1000 Brussels (maps available at the welcome desk)
Thursday 22nd November 2012

8.00 - Registration & Welcome coffee

9.30 - Round Table R1: Smart Grid & infrastructure (incl. standardization)
TBA

Nation’s Room

400 Public Charging Points in the City of Oslo 2008 - 2011
Marianne Molmen, Agency for Urban Environment, NO

Renewable Energy under Extreme Conditions: Case Studies from Antarctica for autonomous
habitat and mobility
Johan Berte, International Polar Foundation, BE

EV 2.0 - EV: Friend or Foe of Smart Grids?
Jacques DeKegel, IBM, BE

An e-Clearinghouse for energy and infrastructure services in e-mobility
Andreas Pfeiffer, Hubject GmbH, DE

Wireless Charging: The future of electric?
Joe Barrett, Qualcomm, UK

Interoperability
Chris De Decker, ElectricFuel, BE

Standardization is the key!
Peter Van den Bossche, Hoog Erasmus School, BE

11.00 – Coffee break

Foyer

11.30 - Roundtable R2: Recycling and safety aspects of the batteries
Christophe Pillot, Avicenne Energy, FR

Nation’s Room

Advanced rechargeable batteries in a sustainable economy
Jean Pol Wiaux, RECHARGE aisbl, BE

What’s happening in Europe? An overview
Alfons Westgeest, EUROBAT, BE

Recycling and safety aspects of the batteries
Patrick De Metz, SAFT, FR

Difference in Performance and Safety between the different Li-Ion Technologies
Jochen Mählß, The Battery University, DE

State-Of-Charge evaluation of lithium cells showing voltage hysteresis
Massimo Ceraolo, University of Pisa, IT
Recycling and safety aspects of the batteries
Jan Tytgat, Umicore, BE

A Comparison of Gas Evolution under Abusive Conditions of Lithium Ion Batteries with Different Cathode Materials
Valerio Conte, Contech, AT

13.00 – Lunch

14.00 - Roundtable R3: How to render the electrons being “green”
Preben Munch, Ecohz, NO

Carbon footprint of hourly electricity production in Belgium
Maarten Messagie, VUB, BE

Can photovoltaic help?
Manoël Rekinger, European Photovoltaic Industry Association (tbc.)

Certificate of origin
Preben Munch, Ecohz, NO

The Green certificate system, pros & cons.
Tba, Ecoparfait, BE

And even in the oil capital of Europe...
Rune Haaland, Electric Vehicle Union, NO

Additional speakers to be added

15.30 – Coffee break

16.00 – Closing session
Frédéric Vergels, Electri-city.mobi, BE

Our future in Mobility: Oslo is the way to follow... Reasons & vision of a pioneer!
Rune Haaland, Electric Vehicle Union, NO

EVs will always surprise us: Feed-back from the first world tour using less than EURO 250 fuel!
Antonin Guy, Electric-Odyssey, FR

Conclusions from EEVC-2012
Joeri van Mierlo, VUB – ASBE – AVERE, BE

Next Steps
Frédéric Vergels, Electri-city.mobi, BE