Programme for May 15

Plenary sessions
Several Roads towards Zero Emission

2009-05-15, 16:00-17:30, Lindesnes A
Chairman: Urs Muntwyler

* Jørgen Randers, The Norwegian School of Management, THE LOW EMISSION NORWAY PROJECT

* Ólafur Ragnar Grímsson, President of Iceland, ICELAND: A LABORATORY FOR GREEN DRIVING

* Margot Wallström, European Union Vice-President, SMART GROWTH

* DEBATE

The Conference Dinner

2009-05-15, 20:00-23:00, Lindesnes

* DINNER ADDRESSES AND AWARD COMMENTS BY

* Robert Stüssi, President World Electric Vehicle Association, EVS24 Chairman,

* Harald N. Røstvik, Architect - Chairman EVS 24 International Steering Committee and Organizing Committee,

* Ólafur Ragnar Grímsson, President of Iceland,

* Margot Wallström, European Union Vice-President,

* EVS24 E-VISIONARY AWARDS
Lecture sessions
1A: Passenger Cars

2009-05-15, 08:00-10:00, Runde
Chairmen: Jan-Welm Biermann, Urs N Schwegler


* Mikio Kizaki, TOYOTA MOTOR CORPORATION, DEVELOPMENT OF NEW TOYOTA FCHV-ADV

* Christian Mohrdieck, Daimler AG, NEXT GENERATION FUEL CELL TECHNOLOGY FOR PASSENGER VEHICLES AND BUSES

* Minoru Matsunaga, Honda R&D Co.,Ltd., POWERTRAIN SYSTEM OF HONDA FCX CLARITY FUEL CELL VEHICLE

* René H.E. van Doorn, AUDI AG, THE NEW AUDI Q5 FUEL CELL

* Richard Carlson, Argonne National Lab - Martha Christenson, Environment Canada, INFLUENCE OF SUB-FREEZING CONDITIONS ON FUEL CONSUMPTION AND EMISSIONS ON TWO PLUG-IN HYBRID ELECTRIC VEHICLES
1B: Batteries & Energy Storage

2009-05-15, 08:00-10:00, Grip
Chairmen: Mario Conte, CC Chan


* Sébastien Martinet, CEA-LITEN - Florence Fusbalba, CEA, SAFE LI-ION TECHNOLOGY FOR MICRO AND MILD HYBRID APPLICATION BASED ON CEA BIPOLAR LIFEPo4/LI4Ti5O12 TECHNOLOGY

* Danilo Santini, Argonne National Laboratory, FACTORS DETERMINING THE MANUFACTURING COST OF LITHIUM-ION BATTERIES FOR PHEVS

* Peter Pichler, MAGNA STEYR Fahrzeugtechnik AG& Co KG, LITHIUM-ION FOR HYBRID VEHICLES AND ELECTRIC VEHICLES: READY FOR MASS MARKET INTRODUCTION!?

* Anna Teyssot, Renault, RESEARCH ROADMAPS AND HELIOS COLLABORATIVE PROJECT

* Sankar DasGupta, Electrovaya, LESSONS: ELECTROVAYA'S TECHNOLOGY ROADMAP & SYSTEM DESIGN APPROACH TO LITHIUM ION SUPERPOLYMER? BATTERY SYSTEMS FOR TRANSPORTATION (FOCUS ON ITS TATA-MILJOBL-ELECTROVAYA PASSENGER BEV)
**1C: Energy Supply & Infrastructures**

2009-05-15, 08:00-10:00, Dyna

* **Chairmen:** Jorge Esteves, Susanne Wegmann

* Arindam Maitra, EPRI - Angelo Giumento, Hydro-Quebec Distribution, GRID IMPACTS OF PLUG-IN HYBRID AND ELECTRIC VEHICLES - ANALYSIS OF PHEV LOADING CHARACTERISTICS ON HYDRO-QUEBEC'S DISTRIBUTION SYSTEM OPERATION

* Cyriacus Bleijs, EdF, LOW-COST CHARGING SYSTEMS WITH FULL COMMUNICATION CAPABILITY.

* Ryan McCarthy, UC Davis, INTERACTIONS BETWEEN ELECTRIC-DRIVE VEHICLES AND THE POWER SECTOR IN CALIFORNIA

* Kari Espegren, Institute for Energy Technology, PRODUCTION AND USE OF HYDROGENREGIONAL ENERGY SYSTEMS ANALYSIS OF OSLO, TELEMARK AND ROGALAND

* Edward Kjaer, Southern California Edison, PLUGGING-IN TO OUR TRANSPORATION FUTURE

* Vinzenz Haerri, Lucerne University of Applied Sciences & ArtsHSLU T&A, LIVING AND MOBILITY - BLUE ANGEL 3 WITH SAM FOR A DEMONSTRATION PLATFORM OF V2G
1D: Introduction, Demonstration & Marketing

2009-05-15, 08:00-10:00, Halten
Chairmen: Joeri de Ridder, Paulo Pereirinha

* Lin Cheng, Electric Vehicle Center of Engineering and Technology, Beijing Institute of Technology, BATTERY ELECTRIC BUS APPLYING SYSTEM IN BEIJING OLYMPICS

* Hans Driever, TNO, EARLY MARKET FOR ELECTRIC MOBILITY: POSSIBLE WIN-WIN FOR 3 MAJOR STAKEHOLDERS

* Rob Winkel, Ecofys Netherlands BV, COST EFFECTIVE INTRODUCTION OF ELECTRIC VEHICLES

* Diana Blake, Optimal Energy, JOULE - IMAGINEERING MOBILITY

* Michael Nicholas, Institute of Transportation Studies, SURVEY OF THE IMPORTANCE OF INTERREGIONAL AVAILABILITY FOR ALTERNATIVE FUELS

* Anna Rota - Biadici, infovel, LADIES' CHOICE FOR ELECTRIC CARS: A DIFFERENT MARKETING APPROACH
1E: Propulsion Systems & Subsystems

2009-05-15, 08:00-10:00, Lindesnes C
Chairmen: Arno Mathoy, Yoichi Hori

* Shuichi Hirata, Toyota Motor Corporation, DEVELOPMENT OF POWER CONTROL UNIT(PCU) FOR MIDCLASS VEHICLE

* David Milner, Science Applications International Corporation (SAIC), POWER SYSTEM DESIGN AND OPTIMIZATION FOR TACTICAL WHEELED VEHICLES

* Giovanni Pede, Italian National Agency for the Energy and the Environment, ENEA HYBRID DRIVE TRAIN TESTING FACILITY: A VERSATILE INSTRUMENT FOR HIL (HARDWARE-IN-THE-LOOP) ASSISTED DESIGN

* Dejun Yin, University of Tokyo, A NOVEL TRACTION CONTROL WITHOUT CHASSIS VELOCITY FOR ELECTRIC VEHICLES

* Bogdan Fijalkowski, Cracow University of Technology, ELECTRO-MECHANICAL DIFFERENTIALS FOR REDUCTION OF SELF-GENERATED WIND-UP TORQUES IN DBW AWD PROPULSION MECHATRONIC CONTROL SYSTEMS

* Tom De Vleeschauwer, IHS Global Insight, THE GREAT RACE : A FUTURE POWERTRAIN TECHNOLOGY OUTLOOK
1F: Standardization & Regulation

2009-05-15, 08:00-10:00, IMI
Chairmen: Giampiero Brusaglino, T.F. Chow

* Michael Duoba, Argonne, CORRELATING DYNAMOMETER TESTING TO IN-USE FLEET RESULTS OF PLUG-IN HYBRID ELECTRIC VEHICLES

* Tetsuya Niikuni, National Traffic Safety and Environment Laboratory, AN EVALUATION OF THE DEGREE OF BATTERY DEGRADATION IN PLUG-IN HYBRID-ELECTRIC VEHICLES

* Peter Van den Bossche, Erasmus University College Brussels, THE CELL VERSUS THE SYSTEM: STANDARDIZATION CHALLENGES FOR ELECTRICITY STORAGE DEVICES

* Bing-Ming Lin, Industrial Technology Research Institute, TEST METHOD AND TECHNIQUE OF SAFETY TEST FOR LIGHT ELECTRIC VEHICLES (LEV) BATTERY PACKS

* Ken-ichi Shimizu, National Institute of Advanced Industrial Science and Technology, FUEL CONSUMPTION TEST METHOD FOR HEVS -ERROR ESTIMATION AND TEST PROCEDURE FOR BETTER ACCURACY ?

* Luiz Artur Pecorelli Peres, State University of Rio de Janeiro - UERJ, TESTS PROCEDURES AND MEASUREMENTS FOR RECHARGE EVALUATION OF BATTERY ELECTRIC VEHICLES IN POWER CONCESSIONAIRES IN BRAZIL
2A: Passenger Cars

2009-05-15, 10:20-12:20, Runde
Chairmen: François Badin, C.M. Mak

* Hideaki Yaguchi, Toyota Motor Corporation, DEVELOPMENT OF NEW HYBRID SYSTEM FOR COMPACT CLASS VEHICLES

* Noelle Janiaud, RENAULT S.A.S, ELECTRIC VEHICLE POWERTRAIN ARCHITECTURE AND CONTROL GLOBAL OPTIMIZATION

* Chetan Maini, REVA Electric Car Co. Pvt, DEVELOPMENT OF A NEXT GENERATION ELECTRIC CAR FOR WORLD MARKETS

* Paulo Pereirinha, Polytechnic Institute of Coimbra (IPC-ISEC) Portugal, ADVANCES IN THE ELECTRIC VEHICLE PROJECT-VEIL USED AS A MODULAR PLATFORM FOR RESEARCH AND EDUCATION

* Marco Piffaretti, Protoscar SA, LAMPO: DEVELOPMENTS OF PROTOSCAR’S HIGH PERFORMANCE BATTERY ELECTRIC VEHICLE AND EXPLANATION OF ITS UNIQUE EFFICIENCY FEATURES

* Wolfgang Kriegler, Magna Steyr, EV AND HYBRID DEVELOPMENTS AT MAGNA STEYR
  (SUBTITLE: WILL ALTERNATIVE POWERTRAINS BECOME A COMMERCIAL SUCCESS FOR OEM’S AND SUPPLIERS IN THE NEXT FUTURE?)
2B: Batteries & Energy Storage

2009-05-15, 10:20-12:20, Grip
Chairmen: Florence Fusalba, Hideaki Horie

* Peng Bai, State Key Laboratory of Automotive Safety and Energy, Tsinghua University, Beijing, P.R.China., CAPACITY LOSS IN DIFFERENT CHARGE/DISCHARGE CYCLES OF LITHIUM ION BATTERIES

* Andrew Chu, A123Systems, NANOPHOSPHATE TECHNOLOGY AS AN ENABLER FOR AUTOMOTIVE APPLICATIONS

* Christian Kuper, Johnson Controls SAFT, THERMAL MANAGEMENT OF HYBRID AND ELECTRIC VEHICLE BATTERY SYSTEMS

* Andrew Burke, University of California-Davis, Institute of Transportation Studies, PERFORMANCE CHARACTERISTICS OF LITHIUM-ION BATTERIES OF VARIOUS CHEMISTRIES FOR PLUG-IN HYBRID VEHICLES

* Jochen Gerschler, ISEA RWTH Aachen University, INVESTIGATION OF OPEN-CIRCUIT-VOLTAGE BEHAVIOUR OF LITHIUM-IION BATTERIES WITH VARIOUS CATHODE MATERIALS UNDER SPECIAL CONSIDERATION OF VOLTAGE EQUALISATION PHENOMENA

* HISASHI TAKEDA, ASAHI-KASEI E-MATERIALS CORPORATION, INORGANIC-BLENDED SEPARATOR FOR HIGH POWER HEV BATTERY
**2C: Energy Supply & Infrastructures**

2009-05-15, 10:20-12:20, Dyna

Chairmen: Cyriacus Bleijs, Serge Roy

* Charlie Botsford, AeroVironment Inc., FAST CHARGING VS. SLOW CHARGING: PROS AND CONS FOR THE NEW AGE OF ELECTRIC VEHICLES

* Gordon Dower, The Ridek Corporation, INSTEAD OF PLUGGING IN FOR V2G

* Loic Gaillac, Southern California Edison - Edward Kjaer, Southern California Edison, THE INTEGRATION OF PLUG-IN HYBRID AND ELECTRIC VEHICLE BASED RESIDENTIAL ENERGY STORAGE SYSTEMS AT SCE’S GARAGE OF THE FUTURE

* Hatton Chandler, Delft University of Technology, CHARGING STATIONS FOR URBAN SETTINGS: THE DESIGN OF A PRODUCT PLATFORM FOR ELECTRIC VEHICLE INFRASTRUCTURE IN DUTCH CITIES

* Frauke Heider, Fraunhofer Institute for Solar Energy Systems, VEHICLE TO GRID: REALIZATION OF POWER MANAGEMENT FOR THE OPTIMAL INTEGRATION OF PLUG-IN ELECTRIC VEHICLES INTO THE GRID

* Jonn Axsen, UC Davis, ANTICIPATING PHEV ENERGY IMPACTS IN CALIFORNIA
2D: Introduction, Demonstration & Marketing

2009-05-15, 10:20-12:20, Halten
Chairmen: Maria Youssefzadeh, Fred Joseck

* Lars Overgaard, Danish Technological Institute, REFLECTIONS ON SYNERGIES BETWEEN THE INTRODUCTION OF BEV’S IN DENMARK AND THE DANISH ENERGY SYSTEM

* Joachim Skoogberg, Fortum, MOBILEL - DEMONSTRATION OF PLUG-IN VEHICLES IN STOCKHOLM (SWEDEN)

* Asao Uenodai, Honda R&D Americas, inc, ANALYSIS OF FUEL CELL VEHICLE CUSTOMER USAGE AND HYDROGEN REFUELLING PATTERNS ? COMPARISON OF PRIVATE AND FLEET CUSTOMERS

* Anthony Vermie, Public Works Rotterdam - Monique Blokpoel, Eneco, ROTTERDAM, CITY OF ELECTRIC TRANSPORT

* Chris Walsh, Cenex, ELECTRIC DRIVE VEHICLE DEPLOYMENT IN THE UK

* Xiang Zhang, Shanghai Haima Automobile R&D Co., LTD, ANALYZING THE HYBRID ELECTRIC VEHICLE TECHNOLOGY IN CHINA
2E: Modelling & Simulation

2009-05-15, 10:20-12:20, Lindesnes C
Chairmen: Alain Bouscayrol, Zdenek Groh

* Pavan Potluri, AVL Powertrain UK Ltd., WHICH HYBRID POWERTRAIN WOULD BE SUITABLE FOR YOUR VEHICLE TO REDUCE CO2 EMISSIONS?

* Ralf Bartholomäus, Fraunhofer IVI, CONTROL-ORIENTED DYNAMIC LI-ION BATTERY MODELS FOR HIGH POWER APPLICATIONS

* Sylvain Pagerit, Argonne, EVALUATION OF PHEVS FUEL EFFICIENCY AND COST USING MONTE CARLO ANALYSIS

* Ashley Kells, Intelligent Energy Ltd, SIMULATION OF A FUEL CELL HYBRID LONDON TAXI

* Gregory Plett, University of Colorado at Colorado Springs, SIMULATING BATTERY PACKS COMPRISING PARALLEL CELL MODULES AND SERIES CELL MODULES

* Namwook Kim, Seoul National University, OPTIMAL CONTROL OF A PLUG-IN HYBRID VEHICLE BASED ON DRIVING PATTERNS
2F: Heavy Duty Vehicles

2009-05-15, 10:20-12:20, IMI
Chairmen: Peter Van den Bossche, Mark Hairr

* Uk-Don Choi, HYUNDAI HEAVY INDUSTRIES CO., LTD., DEVELOPMENT OF SERIES HYBRID ELECTRIC VEHICLE FOR LOW-FLOOR CITY TRANSIT BUS

* Roger Bedell, Opbrid Transporte Sostenible S.L., A PRACTICAL, 70-90% ELECTRIC BUS WITHOUT OVERHEAD WIRES

* Enrique Luque-Aleman, Vossloh-Kiepe GmbH, ZERO-EMISSION URBAN TRANSIT BUS

* Dirk Meyer, EPT Eco Power Technology, ELECTRIC, HYBRID AND HYDROGEN BUSES FOR PUBLIC TRANSPORT

* Zdenek Cerovsky, Czech Technical University in Prague, SILENT OPERATING RANGE OF MILITARY ELECTRIC HYBRID VEHICLE USING ELECTRIC POWER SPLITTER AND DIFFERENT ELECTRIC ENERGY STORAGE.

* Arnold Miller, Vehicle Projects LLC, LARGEST FUELCELL LAND VEHICLE: A HYBRID SHUNT LOCOMOTIVE FOR LOS ANGELES
3A: Passenger Cars

Chairmen: Joseph Beretta, Joeri Van Mierlo

* Pierre Loing, Nissan in Europe, NISSAN PUTS ZERO-EMISSION LEADERSHIP AT THE CENTER OF ITS GLOBAL PRODUCT STRATEGY

* Egil Mollestad, Think, THINK CITY - BATTERY EXPERIENCES FROM SEVERAL MILLION KM OF REAL LIFE DRIVING

* Petr Kadurek, IST, SAO MIGUEL ISLAND AS A CASE STUDY ON A POSSIBLE USAGE OF ELECTRIC VEHICLE TO STORE ENERGY


* K.C. Lim, Valence Technology, MEETING ELECTRICAL VEHICLES BATTERY DEMANDS

* fernando smargiasse, ENEA, HIGH EFFICENCY-LOW COST POWERTAIN FOR URBAN ELECTRIC VEHICLE.
3B: Batteries & Energy Storage

Chairmen: Härri Vinzenz, James Miller

* Mario Conte, ENEA, IMPACT OF INNOVATIVE ILHYPOS SUPERCAPACITORS ON A FUEL CELL VEHICLE

* Allan Cooper, European Advanced Lead Acid Battery Consortium, ADVANCED LEAD-ACID BATTERIES - THE WAY FORWARD FOR LOW-COST MICRO AND MILD HYBRID VEHICLES

* Patrick Brant, ExxonMobil, CONTINUED ADVANCEMENTS IN SEPARATOR TECHNOLOGY PERFORMANCE

* Ulrik Grape, EnerDel, DESIGN & DEVELOPMENT OF A LARGE LI-ION BATTERY PACK FOR EVS

* Ahmad Pesaran, National Renewable Energy Laboratory, INTEGRATION ISSUES OF CELLS INTO BATTERY PACKS FOR PLUG-IN AND HYBRID ELECTRIC VEHICLES

* Geert Vandensande, ON Semiconductor Belgium BVBA, ELECTRONICS FOR LI-ION BATTERY PACKS IN ELECTRIC VEHICLES
3C: Environmental Impacts & Life Cycle Analysis

Chairmen: Pietro Menga, Shigeyuki Minami

* Patricia Baptista, IST - DTEA - Gonçalo Gonçalves, Technical University of Lisbon, FULL LIFE CYCLE ANALYSIS OF MARKET PENETRATION OF ELECTRICITY BASED VEHICLES

* Faycal-Siddikou Boureima, Vrije Universiteit Brussel, COMPARATIVE LCA OF ELECTRIC, HYBRID, LPG, DIESEL AND GASOLINE CARS IN BELGIAN CONTEXT

* Raffaele Domeniconi, infovel, ASSESSING THE ECOLOGICAL FOOTPRINT OF PERSONAL MOBILITY? A CASE STUDY ON THE BENEFITS GENERATED BY THE PROMOTION OF ELECTRIC VEHICLES IN CANTON TICINO - SWITZERLAND

* Åsgeir Helland, Think, ?ARE GLOBAL CO2 EMISSION REDUCTIONS POSSIBLE BY DRIVING ELECTRIC?"

* Nele Sergeant, Vrije Universiteit Brussel, AN ENVIRONMENTAL ANALYSIS OF FCEV AND H2-ICE VEHICLES USING THE ECOSCORE METHODOLOGY

* Christoph Stiller, Ludwig-Bölkow-Systemtechnik GmbH, SUSTAINABILITY OF TRANSPORT FUELS
**3D: Public Promotion**

Chairmen: Raoul Viora, Brian Wynne

* Ion Luminita, EIGSI, SITE SELECTION FOR ELECTRIC CARS OF A CAR-SHARING SERVICE

* Giampiero Brusaglino, CEI-CIVES, NEW TECHNOLOGIES DEMONSTRATED AT FORMULA ELECTRIC AND HYBRID ITALY 2008

* Al Cormier, Electric Mobility Canada, TECHNOLOGY ROAD MAP FOR ELECTRIC VEHICLES IN CANADA

* Dean Taylor, Southern California Edison, THE DIFFERENCES AND SIMILARITIES BETWEEN PLUG-IN HYBRID EVS AND BATTERY EVS

* Elizabeth Couzineau-Zegwaard, Atlante Conseil, THE CHALLENGES OF ELECTRIC VEHICLES IN LAND USE PLANNING AND ECONOMIC DEVELOPMENT OF MOUNTAIN RESORTS: DECISION SUPPORT FOR SUSTAINABLE MOBILITY

* Anibal T. De Almeida, University of Coimbra, INTEGRATION OF RENEWABLE ENERGIES FOR TROLLEYBUS AND MINI-BUS LINES IN COIMBRA
3E: Propulsion Systems & Subsystems

Chairmen: Uwe Schaefer, Aymeric Rousseau

* Theo Hofman, Eindhoven University of Technology, DEVELOPMENT OF A MICRO-HYBRID SYSTEM FOR A THREE-WHEELED MOTOR TAXI

* Kiyotaka Kawashima, University of Tokyo, ROLLING STABILITY CONTROL BASED ON ELECTRONIC STABILITY PROGRAM FOR IN-WHEEL-MOTOR ELECTRIC VEHICLE

* Edo Aneke, TNO Automotive, HYBRID-ASSISTED DPF REGENERATION FOR HYBRID DISTRIBUTION TRUCKS

* Michael Lamperth, Imperial College, DUODRIVE ? SIMPLE SERIES-PARALLEL HYBRID USING AXIAL FLUX TECHNOLOGY

* Christian Pronovost, TM4 inc., A RECONFIGURABLE SERIES-PARALLEL HYBRID POWERTRAIN FOR PLUG-IN VEHICLES

* Yi-hsuan, ITRI, NOVEL SYSTEM DESIGNS AND CONTROLLER DEVELOPMENT FOR A NEW-TYPE DUAL-HYBRID ELECTRIC VEHICLE
3F: Global Approach & Cost Analysis

Chairmen: Michael Valentine-Urbschat, Sven Thesen

* Phil Sharer, , COST BENEFIT ANALYSIS OF ADVANCED POWERTRAINS FROM 2010 TO 2045

* Laurence Turcksin, Vrije Universiteit Brussel, LIFE CYCLE COST ANALYSIS OF ALTERNATIVE VEHICLES AND FUELS IN BELGIUM

* Maria Grahn, Chalmers University of Technology, THE ROLE OF ICEVS, HEVS, PHEVS, BEVS AND FCVS IN ACHIEVING STRINGENT CO2 TARGETS: RESULTS FROM GLOBAL ENERGY SYSTEMS MODELING.

* Maximilian Kloess, Vienna University of Technology, TECHNICAL, ECOLOGICAL AND ECONOMIC ASSESSMENT OF ELECTRIFIED POWERTRAIN SYSTEMS FOR PASSENGER CARS IN A DYNAMIC CONTEXT (2010 TO 2050)

* Peter Mock, German Aerospace Center (DLR), ELECTRIC VEHICLES ? A MODEL BASED ASSESSMENT OF FUTURE MARKET PROSPECTS AND ENVIRONMENTAL IMPACTS

* Xavier Tackoen, Université Libre de Bruxelles, ECONOMIC AND ENVIRONMENTAL BENEFITS OF SUPERCAPACITOR-BASED ENERGY STORAGE SOLUTIONS FOR THE BRUSSELS METRO NETWORK
Dialogue sessions

D2: Dialogue Session

2009-05-15, 17:30-19:00, Forum plaza
Chairmen: Peter Van den Bossche, Joeri Van Mierlo

Batteries & Energy storage

* Markus Stiegeler, University of Ulm VIRTUAL BATTERY SIZE ON COST FUNCTION-BASED OPERATIONAL STRATEGIES FOR PARALLEL HYBRID DRIVETRAINS

* Gregory Plett, University of Colorado at Colorado Springs EFFICIENT BATTERY PACK STATE ESTIMATION USING BAR-DELTA FILTERING

* Jesper Jespersen, Danish Technological Institute CAPACITY MEASUREMENTS OF LI-ION BATTERIES USING AC IMPEDANCE SPECTROSCOPY

* Ming Gao, Department of automotive of Tsinghua University DEVELOPMENT OF BATTERY MANAGEMENT SYSTEM INTEGRATING OBD-II FUNCTION FOR EVS

* Atsushi Funabiki, GS Yuasa Corporation ROBUSTNESS OF 50 AH-CLASS LITHIUM-ION CELL FOR ELECTRIC VEHICLES

* Nobuhito Ohnuma, PUES corporation INTRODUCTION TO THE SECOND GENERATION BATTERY CONTROL UNIT FOR LITHIUM ION BATTERIES

* Valérie Sauvant-Moynot, IFP AN INTEGRATED APPROACH TO HIGH-POWER BATTERY MODELING: FROM THE ELECTROCHEMISTRY TO THE VEHICLE

* Toshihiko Furukawa, united chemi-con.inc/Nippon Chemi-Con Group CAPACITORS FOR INTERNAL COMBUSTION ENGINE STARTING WITH GREEN TECHNOLOGY DLCAP

* Philippe STEVENS, EDF R&D DEVELOPMENT OF AN ELECTRICALLY RECHARGEABLE ZINC AIR BATTERY FOR ELECTRIC VEHICLES

* Andrew Burke, University of California-Davis, Institute of Transportation Studies PRESENT STATUS AND PROJECTED FUTURE POTENTIAL OF ELECTROCHEMICAL CAPACITORS AS ENERGY STORAGE IN HYBRID-ELECTRIC VEHICLES

* Michael Roscher, RWTH Aachen INFLUENCE OF CATHODES TECHNOLOGY ON THE POWER CAPABILITY AND CHARGE ACCEPTANCE OF LITHIUM ION BATTERIES.
* Ralf Benger, Institute of electrical power engineering CHARACTERIZING ELECTROCHEMICAL SYSTEMS USED FOR HIGH-CURRENT APPLICATION BY MEASURING THE SHORT CIRCUIT CURRENT AND THE INTERNAL RESISTANCE

* Jaehyun Han, Hanyang University DUAL KALMAN FILTER FOR STATE OF CHARGE ESTIMATION OF A LEAD-ACID BATTERY

* Cyrus Ashtiani, Chrysler RECENT DEVELOPMENTS AT UNITED STATES ADVANCE BATTERY CONSORTIUM

* Jens Groot, Volvo Technology Corporation / Chalmers University of Technology STATISTIC METHOD FOR EXTRACTION OF SYNTHETIC LOAD CYCLES FOR CYCLELIFE TESTS OF HEV LI-ION BATTERIES

* Zhenpo Wang, Beijing Institute of Technology THE STATUS QUO AND TRENDS OF STUDIES ON COLLISION SAFETY OF ELECTRIC VEHICLES

* Meng Xiangfeng, China Automotive Technology & Research Center DEVELOPMENT OF LITHIUM-ION BATTERY’S CYCLE LIFE PREDICTION BASED ON DEGRADATION DATA FOR ELECTRIC VEHICLES IN CHINA

* Matti Liukkonen, Teknillinen Korkeakoulu LOW-PASS FILTERED POWER-FLOW CONTROL IN SERIES HYBRID ELECTRIC VEHICLE

* Chengtao Lin, Tsinghua University APPLICATION OF LARGE CAPACITY NI-MH BATTERY PACKS IN THE PUBLIC TRANSPORTATION DEMONSTRATION PROJECT OF BEIJING 2008 OLYMPIC GAME

* Teng Li, Tsinghua University PERFORMANCE TESTS AND ANALYSES ON LIFEP04 BATTERY

* Christophe Dudézert, Renault APPLICATION OF A MECHANICAL METHODOLOGY FOR LITHIUM-ION BATTERY LIFE PREDICTION

* João Pedro Trovão, Polytechnic Institute of Coimbra (IPC-ISEC) Portugal DESIGN METHODOLOGY OF ENERGY STORAGE SYSTEMS FOR A SMALL ELECTRIC VEHICLE

* Kang Won Lee, KRRI STUDY ABOUT THE APPLICATION OF LPB FOR THE PROPULSION SYSTEM IN BIMODAL TRAM

* Giuseppe Guidi, NTNU EFFECTIVENESS OF SUPERCAPACITORS AS POWER-ASSIST IN PURE EV USING A SODIUM NICKEL-CHLORIDE BATTERY AS MAIN ENERGY STORAGE

* Hasan CULCU, Vrije Universiteit Brussel CELL CHARACTERIZATION OF LITHIUM-ION CAPACITOR WITH FREEDOMCAR MODEL
* Hasan CULCU, Vrije Universiteit Brussel INTERNAL RESISTANCE OF CELLS OF LITHIUM BATTERY MODULES WITH FREEDOMCAR MODEL

* Fiorentino Valerio Conte, arsenal research SAFETY IN THE BATTERY DESIGN: THE SHORT CIRCUIT

* Noshin Omar, Vrije Universiteit Brussel EFFECTIVENESS EVALUATION OF A SUPER CAPACITOR-BATTERY PARALLEL COMBINATION FOR HYBRID HEAVY LIFT TRUCKS

* Chisu Kim, EIG Ltd LIFEPO4-BLENDED CATHODE AS A POTENTIAL ELECTRODE FOR EV APPLICATION

* Pei Jen Wang, National Tsing Hua University AN INNOVATIVE BATTERY SYSTEM FOR ELECTRIC VEHICLES BASED UPON LITHIUM IRON PHOSPHATES CHEMISTRY

* Christiaan Tol, TNO (Netherlads Organisation for Applied Scientific Research) BATTERY ENERGY STORAGE SYSTEM

* Scott Fish, Institute for Advanced Technology MODERN HIGH POWER LI+ BATTERIES FOR EFFICIENT LOAD LEVELLING IN COMBAT VEHICLES

* Marcel Gauch, EMPA LIFE CYCLE ASSESSMENT OF LITHIUM ION BATTERIES?INVENTORY OF COMPONENTS AND PROCESSES

* Patrik Johansson, Chalmers University of Technology ENERGY STORAGE ACTIVITIES IN THE SWEDISH HYBRID VEHICLE CENTRE

* Patrick Brant, ExxonMobil CONTINUED ADVANCEMENTS IN SEPARATOR TECHNOLOGY PERFORMANCE

* Adam Szczepanek, AeroVironment ELECTRIC VEHICLE INFRASTRUCTURE DEVELOPMENT: AN ENABLER FOR ELECTRIC VEHICLE ADOPTION

* Dean Geroux, Bitrode Corporation HIGH-SPEED HYBRID BATTERY END-OF-LINE TEST SYSTEM
Propulsion systems & Subsystems

* Nobuyoshi Mutoh, Graduate School of Tokyo Metropolitan University
  FRONT-AND-REAR-WHEEL-INDEPENDENT-DRIVE-TYPE ELECTRIC VEHICLE
  (FRID EV) WITH COMPATIBLE DRIVING PERFORMANCE AND SAFETY

* Jochen Lindenmaier, University Ulm DATA ACQUISITION UNIT FOR GENERATION
  OF REALISTIC DRIVING CYCLES FROM REAL WORLD DATA

* Mark Bernacki, University of Ontario Institute of Technology
  DESIGN AND DEVELOPMENT OF AN INDEPENDENT HUB MOTOR REAR DRIVE ELECTRIC
  VEHICLE WITH ELECTRONIC DIFFERENTIAL

* Matt Van Wieringen, UOIT DESIGN AND DEVELOPMENT OF A DUAL-FUEL
  (HYDROGEN + GASOLINE) POWER SYSTEM FOR AN EXTENDED RANGE
  ELECTRIC VEHICLE

* Hong Fu, Department of Automotive Engineering, Tsinghua University, Beijing,
  P.R.China THE CONTROL ALGORITHM OF ACTIVE SYNCHRONIZATION OF
  MOTOR IN SHIFTING PROCESS FOR ELECTRIC VEHICLES

* Juan de Santiago, Dep. Eng. Sciences, Div. for electricity, Uppsala University
  DESIGN PARAMETERS CALCULATION OF A NOVEL DRIVELINE
  FOR ELECTRIC VEHICLES

* Andrew Burke, University of California-Davis, Institute of Transportation Studies
  SIMULATED PERFORMANCE OF ALTERNATIVE HYBRID-ELECTRIC
  POWERTRAINS IN VEHICLES ON VARIOUS DRIVING CYCLES

* Shih-Hsiang Chien, Industrial Technology Research Institute
  DESIGNS AND IMPLEMENTATION FOR AN ADVANCED AUTOMATED MANUAL
  TRANSMISSION SYSTEM OF HYBRID ELECTRIC VEHICLES

* Jeong Il Seo, Agency for Defense Development
  EXPERIMENTAL RESEARCH ON WHEEL SLIP CONTROL FOR THE HEV IN-WHEEL MOTOR ALONG THE ROUGH
  TERRAIN WITH RECTANGULAR OBSTACLES

* Jeongmin Kim, Sungkyunkwan University
  CONTROL STRATEGY FOR A TWO MODE HYBRID ELECTRIC VEHICLE USING EVT MODE AND FIXED GEAR MODE

* Soono Kwon, Hanyang university
  TORQUE RIPPLE REDUCTION OF PERMANENT MAGNET SYNCHRONOUS MOTOR FOR ELECTRIC POWER STEERING USING
  HARMONIC CURRENT AT LOADED CONDITIONS

* Pete James, Prodrive Ltd
  DC-DC CONVERTER FOR HYBRID AND ALL ELECTRIC VEHICLES

* Ngo Dac Viet, Eindhoven University of Technology
  SHIFTING STRATEGY FOR STEP CHANGE TRANSMISSION VEHICLE - A COMPARATIVE STUDY AND DESIGN
METHOD

* Volker Pickert, Newcastle University CONTROLLED SERIES CAPACITOR CONVERTERS APPLIED IN GENERATOR-SETS FOR SHEV’S

* Kim Gangchul, Korea Institute of Energy Research SMALL SCALE LINEAR CERAMIC ENGINE GENERATOR FOR NEIGHBORHOOD ELECTRIC VEHICLE

* Takeshi Fujii, University of Tokyo MOTOR-ASSISTED AMT SYSTEM DRIVEN BY SUPERCAPACITORS AND DISTURBANCE OBSERVER-BASED CONTROLLER

* Matteo Cavalletti, FAAM S.p.A. INTELLIGENT POWERTRAIN MANAGEMENT SYSTEM FOR A FUEL CELL ELECTRIC VEHICLE

* Vito Di Giacomo, Polo per la mobilità sostenibile Regione Lazio BIZZARRINI P538 ECO TARGA PROJECT

* Simone Sgreccia, Polo per la mobilità sostenibile Regione Lazio HYBRID PICKUP PROJECT

* Shih-Hsin Hsu, Industrial Technology Research Institute AN EXPERT SYSTEM FOR AUTOMATED HUB MOTOR DESIGNS OF A LIGHT ELECTRIC VEHICLE

* Per Hassel Sørensen, Elpedal AS HIGH EFFICIENCY BICYCLE PROPULSION SYSTEM USING TWO MOTORS AND EPICYCLIC GEARING

* Yongchang Du, Tsinghua University HYBRID ELECTRIC SUV BASED ON DUAL ROTOR PM MOTOR

* Yongchang Du, Tsinghua University DUAL ROTOR PM MOTOR HEV DRIVELINE LABORATORY TEST

* Yi-Hsien Chiang, Industrial Technology Research Institute REALIZATION AND IMPLEMENTATION OF ADAPTIVE CONTROL FOR PERMANENT MAGNET SYNCHRONOUS MOTOR ON AN ELECTRIC VEHICLE

* Uwe Vollmer, Technical University of Berlin MINIMIZATION OF LOSSES OF PMSM FOR HEV

* Thierry Coosemans, Vrije Universiteit Brussel DATA ACQUISITION SYSTEM FOR OPTIMIZATION OF SERIES HYBRID PROPULSION SYSTEMS

* David Griscti, University of Malta IMPLEMENTATION OF AN ELECTRIC BOAT DESIGNED TO OPERATE ON FREQUENT SHORT TRIPS

* Bram Veenhuizen, HAN University FUEL CELL HYBRID DRIVE TRAIN TEST FACILITY

* John Kajs, SAIC DEMONSTRATION OF BOOST PHASE CONTROL ALGORITHM
* Chris Mi, University of Michigan-Dearborn INTEGRATED DESIGN OF POWERTRAIN CONTROLLERS IN SERIES HYBRID ELECTRIC VEHICLES FOR EFFICIENCY ENHANCEMENT AND BATTERY LIFETIME EXTENSION

* Peter Ehrhart, L-3 Communications Magnet-Motor GmbH POWER ELECTRONICS BASED ON SIC AND SI/SIC HYBRID MODULES

* Maarten Vanhove, GROUP T - Leuven Engineering College DESIGN AND OPTIMISATION OF A SWITCHED RELUCTANCE MOTOR FOR AN ELECTRIC DRIVE TRAIN

* Sigrid Jacobs, Arcelor Mittal MAGNETIC MATERIAL OPTIMIZATION FOR HYBRID VEHICLE PMSM DRIVES
Fuel Cells

* Ashley Kells, Intelligent Energy Ltd DEVELOPMENT OF A LIGHT DUTY COMMERCIAL FUEL CELL VEHICLE? BY INTELLIGENT ENERGY AND PSA PEUGEOT CITROën

* Hyunwoo Lee, KATRI(Korea Automobile Testing & Research Institute) DEVELOPMENT OF FUEL ECONOMY MEASUREMENT METHOD FOR FUEL CELL VEHICLE

* Kim Hyung-Man, inje University PERFORMANCE EVALUATION OF NEXA FUEL CELL WITH ATMOSPHERIC TEMPERATURE AND HUMIDITY DATA

* Kim Hyung-Man, inje University PERFORMANCE EVALUATION OF MICRO PEM FUEL CELL THROUGH THE NUMERICAL ANALYSIS AND FABRICATION OF MICRO-CHANNEL

* Keith Wipke, National Renewable Energy Lab U.S. FUEL CELL VEHICLE LEARNING DEMONSTRATION: STATUS UPDATE AND EARLY SECOND-GENERATION VEHICLE RESULTS

* David Kashevaroff, UC Davis THE POTENTIAL OF USING AUTOTHERMAL REFORMATION WITH COPPER-BASED CATALYSTS IN VEHICLE APPLICATIONS

* Frieder Herb, ZSW INVESTIGATION OF CONTROL STRATEGIES AND LI-BATTERY AGING IN A FUEL CELL HYBRID CAR MODEL

* Kai Steckmann, SFC EV HYBRIDS: DIRECT METHANOL FUEL CELLS AND BATTERIES MAKE LEVS INDEPENDENT OF THE GRID

* James Miller, Argonne National Laboratory HYDROGEN FUEL PURITY IMPACTS FOR FUEL CELL VEHICLES

* Fred Joseck, U.S. Department of Energy EVALUATION OF A PLATINUM LEASING PROGRAM FOR FUEL-CELL VEHICLES
**Auxiliary Systems**

* akira nishiura, fuji electric device technology Co.,Ltd. IMPROVED LIFE OF IGBT MODULE SUITABLE FOR ELECTRIC VEHICLE

* hiroatsu tokuda, PUES Corporation THE NEW TYPE ELECTRIC LEAKAGE SENSOR

* Jeong Jong Lee, Department of Automotive Engineering, School of Mechanical Engineering, Hanyang University COGGING TORQUE ANALYSIS OF THE PMSM FOR HIGH PERFORMANCE ELECTRICAL MOTOR CONSIDERING MAGNETIC ANISOTROPY OF ELECTRICAL STEEL

* Nikolaos Staunton, Newcastle University CHALLENGES IN COOLING SYSTEM DESIGN FOR HYBRID ELECTRIC VEHICLES

* Nabil Hammad, Helwan UNIV COMPARATIVE STUDY OF SEMICONDUCTOR POWER DEVICES FOR AUTOMOTIVE HYBRID AND 42 V BASED SYSTEMS

* Shin-Hung Chang, Industrial Technology Research Institute IMPLEMENTATION AND CONTROL LOGIC DESIGN OF INTELLIGENT ELECTRIC POWER STEERING SYSTEM

* Shigeyuki Minami, Osaka City University EV RANGE EXTENDER: BETTER MILEAGE THAN PLUG-IN HYBRID?

* Anton Müller, L-3 Communications Magnet-Motor GmbH INTEGRATED STARTER GENERATOR ? MORE THAN A 24V VEHICLE POWER SUPPLY

* Maurizio Paschero, Polo per la Mobilita’ Sostenibile AN EMBEDDED COMPUTER BASED SYSTEM FOR MONITORING, DIAGNOSTICS AND COMMUNICATION IN HYBRID AND ELECTRIC VEHICLES.
**Charging Infrastructure**

* Yushi KAMIYA, Waseda Univ. DEVELOPMENT OF SHORT-RANGE FREQUENT-RECHARGING SMALL ELECTRIC VEHICLE EQUIPPED WITH NON-CONTACT INDUCTIVE POWER SUPPLY SYSTEM

* Kristien Clement, Katholieke Universiteit Leuven, ESAT\ELECTA ANALYSIS OF THE IMPACT OF PLUG-IN HYBRID ELECTRIC VEHICLES ON THE RESIDENTIAL DISTRIBUTION GRIDS BY USING QUADRATIC AND DYNAMIC PROGRAMMING

* xuping li, university of California, Davis AN OVERVIEW OF AUTOMOTIVE HOME AND NEIGHBORHOOD REFUELING

* Pierre Clasquin, 365 Energy Group THE NEED FOR A SMART CHARGING INFRASTRUCTURE

* Kevin James Dyke, University of Manchester ANALYSIS OF ELECTRIC VEHICLES ON UTILITY NETWORKS
Energy Supply issues

* Christoph Stiller, Ludwig-Bölkow-Systemtechnik GmbH BUILDING A HYDROGEN INFRASTRUCTURE IN NORWAY

* Pedram Mohseni, Duke Energy ELECTRIC VEHICLES: HOLY GRAIL OR FOOL’S GOLD

* Cristina Camus, ELECTRIC VEHICLES AND THE ELECTRICITY SECTOR REGULATORY FRAMEWORK: THE PORTUGUESE EXAMPLE

* Xiaodong Zhang, The University of Hong Kong DESIGN AND IMPLEMENTATION OF A THERMOELECTRIC-PHOTOVOLTAIC HYBRID ENERGY SOURCE FOR HYBRID ELECTRIC VEHICLES

* Takehiro Imura, The University of Tokyo FLEXIBILITY OF CONTACTLESS POWER TRANSFER USING MAGNETIC RESONANCE COUPLING TO AIR GAP AND MISALIGNMENT FOR EV

* Fabio Montemurro, E4tech THE IMPACT OF EVS ON AN ELECTRICITY SYSTEM WITH HIGH RENEWABLE PENETRATION

* Rudolf Hunik, IWO INTELLIGENT E-TRANSPORTATION MANAGEMENT
Vehicle to Grid

* Michael Kintner-Meyer, Pacific Northwest National Laboratory SMART CHARGER TECHNOLOGY FOR CUSTOMER CONVENIENCE AND GRID RELIABILITY

* Timo Doescher, Fraunhofer Institute for Solar Energy Systems EVALUATION OF DIFFERENT VEHICLE-TO-GRID INTEGRATION CONCEPTS

* Duarte Sousa, Instituto Superior Técnico/DEEC SOME ASPECTS OF JOINING PHOTOVOLTAIC MICRO-GENERATION SYSTEMS WITH PLUG-IN HYBRID ELECTRIC VEHICLES

* Brian Viezbicke, Rutgers University UNDERSTANDING ENERGY COSTS FOR PHEV CONVERSION PACKS AS WE MOVE TO V2G

* Cord-Henrich Dustmann, Battery Consult sagl SWISSV2G
Exhibition
2009-05-15, 10:00-19:00: Access for EVS24 Participants
2009-05-15, 14:00-19:00: Access for the Public

Ride&Drive
2009-05-15, 10:00-17:30: Access for EVS24 Participants
2009-05-15, 14:00-17:30: Access for the Public