



**IMPROVING**  
*Energy Efficiency*  
**IN ELECTRIC VEHICLES**

November 24<sup>th</sup>, 2016  
Bologna, Italy





**IMPROVING**  
*Energy Efficiency*  
IN ELECTRIC VEHICLES



Big flag to welcome participants at the venue's main entrance.



Reception desk: full colours of the Electric Vehicles Day are featured












# IMPROVING *Energy Efficiency* IN ELECTRIC VEHICLES



## PARTICIPANTS

 Austria	1
 Belgium	1
 Bosnia-Herzegovina	1
 Denmark	3
 France	6
 Germany	8
 Italy	58
 Luxembourg	2
 Portugal	2
 Spain	14
 United Kingdom	4
<b>Total</b>	<b>100</b>



One hundred participants got together for an intense one-day event made up of a great mix of talks with top-notch speakers and bilateral meetings.



# IMPROVING Energy Efficiency IN ELECTRIC VEHICLES

## SPEAKERS



**Begoña GALINDO GALIANA**  
Senior Polymer Researcher - Aimplas



**Stefano LAZZARI**  
Professor of Technical  
Physics and HVAC systems  
University of Genoa



**Silvia ORTEGA**  
PhD student - CIDETE  
Ingenieros S.L

IMPROVING Energy Efficiency IN ELECTRIC VEHICLES

November 09th - 10th, 2016

WORKSHOPS INTRODUCTION TO ENERGY MANAGEMENT

AGENDA

Time	Topic	Speaker
08:45	Welcome coffee and registration	
09:15	MEMO project: digital climate control system able to control regulatory temperature and humidity	Luisberto BALBUENA (OPTEMUS)
09:30	MEMO project: digital climate control system able to control regulatory temperature and humidity	Roberto GALINDO GALIANA (JOSPEL)
09:45	MEMO project: digital climate control system able to control regulatory temperature and humidity	Stefano LAZZARI (UNIVERSITY OF GENOA)
10:00	OPTEMUS project: Leveraging low energy consumption and energy harvesting	Stefano LAZZARI (UNIVERSITY OF GENOA)
10:15	On the importance of Chattering - Towards long-life benefits for Europe within the framework of EUCAR	Giuseppe BIANCHI (OPTEMUS)
10:30	From Cell to System - A 400V introduction to the energy of a battery system	David GARCIA (OPTEMUS)
10:45	From Cell to System - A 400V introduction to the energy of a battery system	Stefano LAZZARI (UNIVERSITY OF GENOA)
11:00	From Cell to System - A 400V introduction to the energy of a battery system	Stefano LAZZARI (UNIVERSITY OF GENOA)
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24:00	From Cell to System - A 400V introduction to the energy of a battery system	Stefano LAZZARI (UNIVERSITY OF GENOA)

Titles of talks are given on the following slide

Picture Credits: Ronnie Ranch Hedegaard (JOSPEL) and Elisa Kassardjian (EMH)





# IMPROVING *Energy Efficiency* IN ELECTRIC VEHICLES

24 November 2016 - Bologna, Italy

INSIGHTS  
INTO H2020 INITIATIVES  
ON ENERGY MANAGEMENT

## AGENDA

MORNING		
When	What	Who
08:45	<i>Welcome coffee and registration</i>	
09:15	Welcome	<b>Lamberto SALVAN</b> - JOSPEL Head of Business Development Alke - Italy
09:20	XERIC project: Hybrid climate control system able to control separately temperature and humidity	<b>Stefano LAZZARI</b> - XERIC Professor of Technical Physics and HVAC systems Department of Architectural Sciences University of Genoa - Italy <i>XERIC's Deputy Coordinator</i>
09:35	JOSPEL project –Optimisation of interior temperature control management	<b>Begoña GALINDO GALIANA</b> - JOSPEL Senior Polymer Research Aimplas - Spain
09:50	OPTEMUS project: Leveraging low energy consumption and energy harvesting.	<b>Alois STEINER</b> - OPTEMUS Co-Team Leader for Thermal Management & Mobile Air Conditioning Virtual Vehicle Research Center in Graz Austria <i>OPTEMUS's Coordinator</i>
10:05	On the importance of Clustering - Towards tangible benefits for Europe within the framework of INEA	<b>Gilbert RIOS</b> – XERIC Professor Emeritus - Chemical Engineering French National School for Engineering European Membrane House CEO
10:15	Financing Electric Mobility thanks to H2020 INEA - Innovation and Networks Executive Agency	<b>David GUEDJ</b> Senior Project Manager INEA <b>European Commission</b>
10:35	From Cell to System – A brief introduction to the design of a battery system	<b>Maximilian BRUCH</b> - JOSPEL Project Manager Fraunhofer Institute for Solar Energy Systems ISE - Germany
10:55	<i>Coffee break</i>	

11:15	Preconditioning and Human Machine Interface	<b>Andrés CALDEVILLA</b> - OPTEMUS Advanced Research Technical Manager Denso - Germany
11:35	Low energy heating system based on Joule effect	<b>Begoña GALINDO GALIANA</b> - JOSPEL Senior Polymer Researcher Aimplas - Spain
11:50	Thermoelectrics and Joule effect for a low energy thermal management (heating and cooling)	<b>Silvia ORTEGA</b> – JOSPEL PhD student (industrial PhD programme) CIDETE Ingenieros S.L - Spain
12:05	How to create a micro-climate around the passengers to dispense with climatizing the entire cabin	<b>Felix WEIDMANN</b> - OPTEMUS Project Engineer Fraunhofer LBF Division Plastics in Darmstadt - Germany
12:25	<i>Lunch break + DEMOS and posters</i>	

AFTERNOON		
When	What	Who
14.00	The electric vehicle value chain inside the Emilia Romagna Smart Specialization Strategy: a theme for European Industrial Modernization Platform?	<b>Francesco Paolo AUSIELLO</b> Strategic Projects Manager ASTER - High Tech Network - Italy <i>XERIC's Strategic Advisory Board</i>
14:20	Polymer-based multicomponent water-vapor selective membranes and other examples of recent membrane developments at KAUST	<b>Klaus-Viktor PEINEMANN</b> Professor in Chemical and Biological Engineering King Abdullah University of Science and Technology - KAUST - Saudi Arabia <i>XERIC's Strategic Advisory Board</i>
14:40	Process Intensification for the Design for the Factory of Future (Towards a plant in a shoe box or in a banana container)	<b>Jean-Claude CHARPENTIER</b> Professor of Chemical Engineering Director Emeritus of Research Laboratoire Réactions et Génie des Procédés CNRS / ENSI - France <i>XERIC's Strategic Advisory Board</i>
15:00	Wrap up and presenting B2Bs	<b>Lamberto SALVAN</b> – JOSPEL Alke - Italy
15:10	<i>Visit – Gallery Tour</i> Museum of Machines by Dayanita Singh, Indian photographer	
15:45 to 18:00	<b>Networking: B2B meetings</b>	



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