

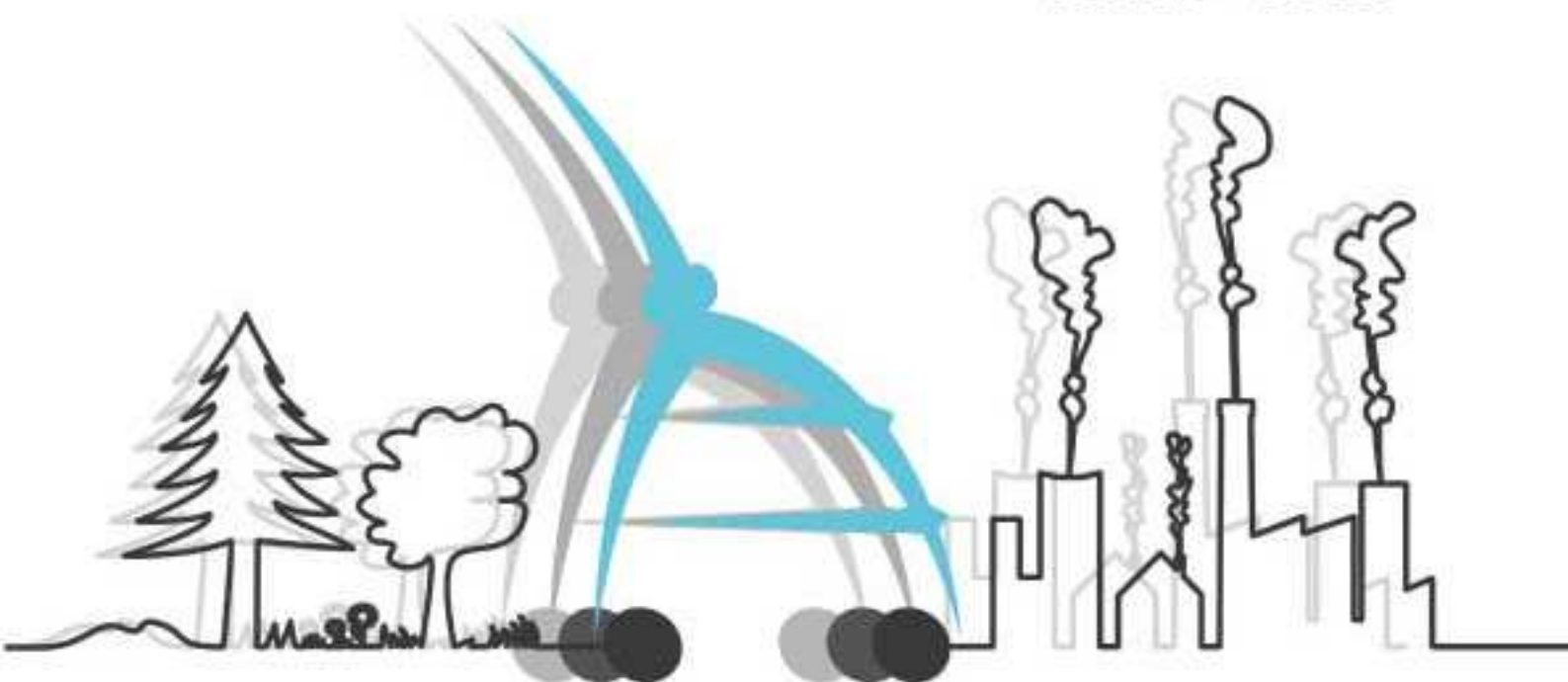


ASSOCIAZIONE TECNICA DELL'AUTOMOBILE

SAE *International*

THE CONVERGENCE OF SYSTEMS TOWARDS SUSTAINABLE MOBILITY: AN ATA & SAE INTERNATIONAL CONFERENCE

**7-8 November 2012
Centro Congressi Lingotto
Torino - ITALY**



CAMERA DI COMMERCIO
INDUSTRIA ARTIGIANATO E AGRICOLTURA
DI TORINO

Foreword

As electronic technology continues to advance at exponential rates, the applications for the mobility industry development seems to be becoming limitless. Electronics within engine and vehicle propulsion systems as well as intelligent transportation technology continues to transform the automobile into a more and more sophisticated piece of electronic hardware and software. It is no longer clear if the automobile is a standalone feature within the landscape of a consumers purchase or if it is an extension of a consumer's electronic toolkit. Megatrends such as urbanization, regulation, embedded vs. the cloud and sustainability are each having a profound effect on the development of electronic technology within vehicle platforms as well. All of this technology is transforming the landscape of the automotive industry. This multi-track Conference will examine items critical to engine, powertrain and intelligent vehicle systems development through high level business keynotes, industry-focused panel discussions and technical presentations with the goal of creating more sustainable systems of vehicle transportation.

TRACK 1 - Future Powertrain

Chairpersons: Bernard Challen, Federico Millo

This track will address new powertrain technology developments, including electrification and hybridization, as well as advances in aftertreatment and fuel & lubes technologies, and their integration into emission control systems aiming to reduce the environmental impact of road transportation systems.

TRACK 2 - Electronic Systems for Vehicle Propulsion (ESVP)

Chairpersons: Riccardo Groppo, Patrick Leteinturier

This track addresses the trends, the challenges and the solutions of electronic systems controlling vehicle propulsion. It covers the controls of ICE internal combustion engines, Transmission & drivelines, xEV applications and electrification. The focus is on electrification Impacts of the various systems. Experts from OEM, Integrators, Tier suppliers and Academia address issues critical to the automotive industry.

TRACK 3 - Intelligent Vehicle Systems (IVS)

Chairpersons: Alan Amici, Marc Zachos

This Track will address the entire electronic infrastructure that is connecting the HEV, EV and ICE vehicle to its environment. The focus will be on the application of vehicle electronics technology as applied to safety, ITS applications, the mobility internet, power system architectures as well as security issues related to vehicle electronic systems. Lastly, the track will address both system and component .

Scientific Committee

Alan Amici (FGA)	Patrick Leteinturier (Infineon)
Michael Bargende (FKFS)	Xandra Margot (CMT-UPV)
Bernard Challen (Shoream Services)	Federico Millo (Politecnico Torino)
Giovanni Cipolla (Politecnico Torino)	Vittorio Ravello (CRF)
Pierre Duret (IFP)	Hans C. Reuss (FKFS)
Zoran Filipi (Clemson University)	Bianca M. Vaglieco (IM CNR)
Riccardo Groppo (CRF)	Marc Zachos (DG Tech)

Organising Committee

Marzio Bianchi (SAE Torino Group)
Giampiero Brusaglino (ATA)
Marc LeDuc (SAE International)
Roberta Reggiani (ATA)
Giuseppe Righes (ATA)

This event is organised under FISITA Patronage



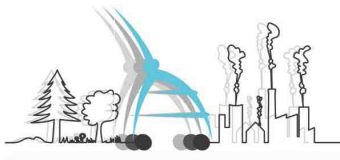
FISITA is the international federation linking the national automotive engineering societies in 37 countries. FISITA was founded in 1948 as a neutral forum for the exchange of technical knowledge on every aspect of vehicle design, development and manufacture. FISITA is a non-profit organisation committed to helping create efficient, affordable, safe and sustainable automotive transportation. www.fisita.com

With the Support of



SAE Torino Group

7 November



Program

Room 1

08.00	Participants' registration
09.00	Welcome & Announcements (by all Tracks Chairpersons)
09.05	KN1 – Harald J. Wester - Fiat Group Automobiles Opening Plenary Keynote
09.25	BREAK (delegates move to the room of interest)
T1 – Future Powertrain	
Future PWT for meeting EU7 and beyond: Advanced Engine Technology	
09.30	Gianmarco Boretto - General Motors Diesel roadmap towards EU6 and beyond
10.00	Kurt Kirsten – Schaeffler The variable valve train in the debate on downsizing and hybrid drives
10.30	Thomas Koerfer – FEV Automotive diesels facing the challenge of future emissions standards
11.00	COFFEE BREAK
Future PWT for meeting EU7 and beyond: Fuel, Injection & Lubrication	
11.30	Christophe Cardon – Delphi Delphi's Diesel Unit Pump Common Rail System
12.00	Andrew Ogley - Petronas Lubricants for Euro VI and beyond
12.30	Marco Corradi - Infineum Lubricant Additive Contribution to Sustainable Mobility
13.00	LUNCH
Future PWT for meeting EU7 and beyond: Aftertreatment Technologies	
14.15	KN2 - Tim Johnson - Corning Inc. Future Powertrains for Meeting Future Requirements: Aftertreatment Technologies
14.45	Manuel Presti – Emitec Innovative Exhaust Gas Aftertreatment Architectures: a Focus on Packaging, thermal Management and CO ₂ reduction
15.15	Ruth Karsten, Ina Grisstedde, Stefan Franoschek, Michael Seyler, Rüdiger Hoyer, Hendrik Noack, Stephan Basso, Wilfried Müller – Umicore Diesel NOx Aftertreatment Systems for Upcoming LDV-Emission Legislations
15.45	Christopher Scotney - Johnson Matthey Title TBD
16.15	COFFEE BREAK
Future PWT for meeting the CO₂ challenge: Advanced Engine Technologies vs. HYBRID & WPT electrification	
16.30	KN3 - Pier Paolo Antonioli - General Motors Powertrain Europe Future PWT for Meeting the CO₂ Challenge: Advanced Engine Technologies
17.00	Nicola Pini – IAV Sensitivity analysis of E-Components for Vehicle Performance and Fuel Consumption Optimization
17.30	Guenter Fraidl - AVL List e-Fusion - a Cost Effective Modular Powertrain System Addressing Future Demands of Small Vehicles
18.00	DAY 1 – ROOM 1 CLOSING (NO LATER THAN 18:00)
20.00	Evening Reception & Networking

7 November

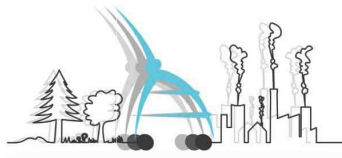


Program

Room 2

08.00	Participants' registration	
09.00	Welcome & Announcements (by all Tracks Chairpersons)	ROOM 1
09.05	KN1 – Harald J. Wester - Fiat Group Automobiles Opening Plenary Keynote	ROOM 1
09.25	BREAK (delegates move to the room of interest)	
T2- Electronic Systems for Vehicle Propulsion (ESVP)		
Mechatronic, Sensors & Actuators		
09.30	Olivier Brunel, Piero Busso – Electrifi Automotive Rotor Position Sensor for Hybrid Drives and Electric Drives – New generation Eddy Current Position Sensor	
10.00	Klas Brinkfeldt - SWEREA Packaging for smart systems	
10.30	R. Groppo, A. Manzone, P.Santero, C. Genta - Centro Ricerche Fiat A. Muller, S. Fuchs - Robert Bosch Smart Actuator Control in Powertrain Systems	
11.00	COFFEE BREAK	
Electronic Technologies		
11.30	Roberto Tiziani - Magneti Marelli Innovative power electronic systems (AC/DC & DC/DC) solutions for HEV applications	
12.00	Sven Rzepka – ENAS Fraunhofer Highly integrated solutions for battery management system	
12.30	Wolfgang Stenzl - Renesas Europe Electronics Sub micron technologies for embedded non-volatile memories	
13.00	LUNCH	
Safety critical architecture and embedded systems		
14.15	KN4 Dietrich Schäfer-Siebert (Robert Bosch) – Current and Future State of Electronic Controls	
14.45	Massimo Osella - General Motors General Motors System Safety Engineering Process	
15.15	David Ward – MIRA Going beyond ISO 26262 – Experiences of its Application and Future Directions	
15.45	Wilhard von Wendorff, Davide Santo – Freescale Safety architecture unleashed	
16.15	COFFEE BREAK	
16.45	Coherent Innovation Across the Value Chain – Expert Panel Discussion Moderator: Ian Riches - Strategy Analytics PANELISTS: Jochen Hanebeck - Infineon Technology Dietrich Schäfer-Siebert - Robert Bosch Jurgen Weyer – Freescale Peter Van Manen – Mc Laren Electronics	
18.00	DAY 1 – ROOM 2 CLOSING (NO LATER THAN 18:00)	
20.00	Evening Reception & Networking	

7 November

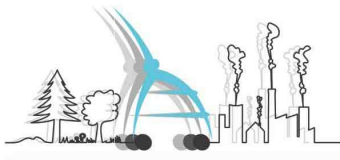


Program

Room 3

08.00	Participants' Registration	
09.00	Welcome & Announcements (by all Tracks Chairpersons)	ROOM 1
09.05	KN1 – Harald J. Wester - Fiat Group Automobiles Opening Plenary Keynote	ROOM 1
09.25	BREAK (<i>delegates move to the room of interest</i>)	
T3 – Intelligent Vehicle Systems (IVS)		
Industry Perspective on Vehicle Safety System		
09.30	Euro NCAP, Side effects of Connectivity for Safety - TBConfirmed	
10.00	North American OEM Perspective on Safety - TBConfirmed	
10.30	Filippo Visintainer - Centro Ricerche Fiat Extension of DRIVE C2X Italian Test Site within EIT Safe Mobility	
11.00	COFFEE BREAK	
Safety Critical Architecture and Electronic Control Innovations		
11.30	Speaker TBD – Hella Title TBD	
12.00	Vladimir Glavtchev – NVIDIA Title TBD	
12.30	Author TBD - TRW Automotive Title TBD	
13.00	LUNCH	
Vehicle Networking		
14.15	KN5 – Session Keynote Current State of IVS in China, Speaker TBDetermined	
14.45	Andrea Tomatis – Hitachi Title TBD	
15.15	Luisa Andreone - Centro Ricerche Fiat Vehicle networking for a safe and green mobility	
15.45	Paolo Santi – IIT CNR Vehicular networking for active safety applications: some experience and open research issues	
16.15	COFFEE BREAK	
16.30	IVS for Sustainable Mobility - Expert Panel Discussion Moderator: Marc Zachos, DG Tech PANELISTS: Mauro Velardocchia - Politecnico di Torino Alessandro Mortali - Iveco Luisa Andreone - Centro Ricerche Fiat Richard Ambros - Airbus	
18.00	DAY 1 – ROOM 3 CLOSING (NO LATER THAN 18:00)	
20.00	Evening Reception & Networking	

8 November



Program

Room 1

	T1 – Future Powertrain
08.55	Welcome & Announcements (by all Tracks Chairpersons)
09.00	KN6 Speaker TBD– Future PWT for meeting the CO₂ Challenge: Advanced Engine Technologies
	Future PWT for meeting the CO₂ Challenge: Advanced Engine Technologies
09.30	Francois Fabre - Continental Dirk Andriess, Silvio Canale, Francesco Vattaneo – FPT Low pressure DI gasoline systems – Opportunities and challenges
10.00	Andy Ward, Roberto Bruno-Bossio – Ricardo The challenge of low CO ₂ gasoline engines
10.30	Jochen Walther, Steffen Berns, Stefan Kampmann, Roger Busch, Andreas Kufferath, Michael Frank, Axel Storch (Robert Bosch) The EU6 Challenge at GDI – Assessment of Feasible System Solutions
11.00	COFFEE BREAK
	Future PWT for meeting the CO₂ Challenge: Advanced Transmission Technologies
11.30	Chris Brockbank, Roberto Bruno-Bossio – Ricardo Overview and integration of transmissions in electrified vehicles
12.00	Konstantinos Vafidis - Centro Ricerche Fiat Title TBD
12.30	Ettore Cosoli - Dana R&D and Innovation The path to improved transmission technology in off-highway vehicles: Dana's vision
13.00	LUNCH
14.15	KN8 - Ian Riches (Strategy Analytics) Closing Plenary Keynote The Bumpy road towards sustainable mobility - market & trends analysis. Mega trends and implementation
14.45	Plenary Panel – Integrating Technology within a Vehicle Platform Moderator: Enrico De Vita - Editorialista del mensile AUTO PANELISTS: Mircea Gradu – Chrysler Omar Hadded – TATA Motors Panelist 3 – TBD Panelist 4 – TBD
16.30	Closing Addresses

8 November



Program

Room 2

	T2 – Electronic Systems for Vehicle Propulsion (ESVP)
08.55	Welcome & Announcements (by all Tracks Chairpersons)
09.00	KN7 – Speaker TBD Automotive electronic systems: challenges and opportunities for 2020
	System Engineering
09.30	Grzegorz Ombach – Qualcomm Technical challenges in finding an optimal solution for wireless power transfer system for automotive
10.00	Nick Smith - Mentor Graphics Title TBD
10.30	Wolfgang Kriegler - MAGNA Title TBD
11.00	COFFEE BREAK
	Propulsion Control
11.30	Peter Van Manen - McLaren Electronic Systems Implementation of Control Algorithms for Racing
12.00	Stefano Sgatti - Magneti Marelli Advanced turbocharger control strategies (TB Confirmed)
12.30	Patrick Leteinturier - Infineon Technologies Vehicle Propulsion control on advanced silicon architectures & technologies
13.00	LUNCH
	<u>THE CONFERENCE CONTINUES IN ROOM 1</u>
14.15	KN8 - Ian Riches (Strategy Analytics) Closing Plenary Keynote The Bumpy road towards sustainable mobility - market & trends analysis. Mega trends and implementation
14.45	Plenary Panel – Integrating Technology within a Vehicle Platform Moderator: Enrico De Vita - Editorialista del mensile AUTO PANELISTS: Mircea Gradu – Chrysler Omar Hadded – TATA Motors Panelist 3 – TBD Panelist 4 - TBD
16.30	Closing Addresses

8 November



Program

Room 3

	T3 – Intelligent Vehicle Systems (IVS)
08.55	Welcome & Announcements (by all Tracks Chairpersons)
09.00	Panel - Cyber Security of Vehicle Connectivity Moderator: Massimo Osella – General Motors PANELISTS: David Ward - EVITA Project Atul Kishore - TCS Mike Cottle - DeCarta Cyril Zeller - Telit Hagai Bar-El – Discretix
11.00	COFFEE BREAK
	Interaction to Infrastructure
11.30	Paul Grujters - TomTom Intelligent Traffic Systems
12.00	Refi Tugrul Güner - Kapsch TrafficCom Bridge Architecture technology for Infrastructure
12.30	D. Scott Watkins - CruiseCam Intl Mobile Digital Video as a V2X Platform
13.00	LUNCH
14.15	<u>THE CONFERENCE CONTINUES IN ROOM 1</u> KN8 - Ian Riches (Strategy Analytics) Closing Plenary Keynote The Bumpy road towards sustainable mobility - market & trends analysis. Mega trends and implementation
14.45	Plenary Panel – Integrating Technology within a Vehicle Platform Moderator: Enrico De Vita - Editorialista del mensile AUTO PANELISTS: Mircea Gradu – Chrysler Omar Hadded – TATA Motors Panelist 3 – TBD Panelist 4 - TBD
16.30	Closing Addresses

General Information

Contacts:

For organisational enquiries:

Marisa Giunipero

ATA – Strada Torino 32/A - 10043 Orbassano (Italy)

marisa.giunipero@crf.it

Phone: +39.011.9080405

www.ata.it

Venue

The Conference will take place at: **Centro Congressi Lingotto – Room LONDRA, Room MADRID and ROOM PARIGI** - Via Nizza 280 – Torino (Italy)

How to reach the Conference venue

By plane: from Torino Caselle Airport, it takes about 30 minutes (by car/taxi) to Lingotto.

By train + underground: from Torino Porta Nuova or Porta Susa railway Stations (both in Torino Centre) you can take the underground (direction LINGOTTO) that stops just in front of the Conference Centre. It is the last stop of underground.

By car: a network of motorways connects Torino to Milano, Venezia, Trieste (A4), Bologna, Firenze, Roma (A21+A1), and Genova (A21+A26). From Nice and Marseille, you can reach Lingotto via Ventimiglia/Savona (A6+A10), from Grenoble and Lyon, via Frejus/Susa (A32+T4). The motorways are connected to the Torino ring road. Suggested exit: Corso Unità d'Italia; from there, follow directions to Lingotto. There is an underground multi-storey car park that can be accessed from the entrance on Via Nizza 230 or through Corso Giambone underpass (accessible from Corso Unità d'Italia). Please find parking costs and opening hours at:

<http://www.apcoa.it/en/parking/parking-information/piemonte/torino/lingotto.html>

Language & Presentations

Presentations will be written and presented in English.

It will be possible to download them from the ATA website. The access will be limited to the participants, by using a password that will be provided by ATA via email a few days after the Conference.

Some innovative Presentations may be eligible for subsequent publication in ATA Review.

Registration & cancellation policy

You can register either on-line or via fax/email.

Refunds will be given to cancellations received in writing prior to **24 October 2012**.

No refunds will be given after this deadline. Replacement delegates are welcome at any time.

Payment

- on-line
- by bank transfer
- by credit card at the reception desk .

Congress dinner

The congress dinner will take place on 17 October.

Hotel information

Accommodation is **not included** in the Conference registration fee.

For booking your accommodation, you can fill the attached 'Hotel booking form' and return to Gruppo Gem, at the contact specified on it. The selected Hotels are near the Conference premises, and in Torino centre at a walking distance from the METRO STATION 'Porta Nuova' that is a few stops from METRO STATION 'Lingotto' where the Conference takes place.

Hotel booking form

**The Convergence of Systems towards Sustainable Mobility – 7,8 November 2012
Centro Congressi Lingotto – Turin (Italy)**

HOW TO MAKE YOUR RESERVATION

Please carefully fill in the form with all personal data, room quantity and type. A confirmation will be sent by fax or e-mail reporting the address of the hotel assigned.

Please send the form by 10 October 2012 to :

GRUPPO GEM- Globe Events Management

Via Maria Vittoria, 54 - 10123 Torino - Tel. +39 011.0364200 Fax +39 011.0364250
E-mail: ornella.diruzza@gruppogem.com

Full Name _____
Address _____
Post Code _____ / City _____ / Country _____
Phone _____
Fax number _____
E-Mail: _____

Arrival date...../...../..... Departure date/...../..... Number of nights:

Prices per night, per room, on bed and breakfast basis. Due City Tax is indicated aside of the rooms fares.

AC TORINO ***** Congress Venue 2 NTS MINIMUM STAY	Nr..... Nr..... Nr.....	Single N.A. Double/Twin € 180,00 DUS € 170,00	+ City Tax € 4,90 p.p/p.n.
STARHOTEL MAJESTIC **** Turin Centre	Nr..... Nr..... Nr.....	Single € 129,00 STANDARD Double/Twin € 179,00 SUPERIOR DUS € 159,00 SUPERIOR	+ City Tax € 3,20 p.p/p.n.
ATAHOTEL CONCORDE **** Turin Centre	Nr..... Nr..... Nr.....	Single N.A. Double/Twin € 125,00 DUS € 105,00	+ City Tax € 3,20 p.p/p.n.
BEST WESTERN HOTEL GENIO *** Turin Centre	Nr..... Nr..... Nr.....	Single € 100,00 Double/Twin € 145,00 Double for single use € 125,00	+ City Tax € 2,30 p.p/p.n.
BEST WESTERN HOTEL GENOVA *** Turin Centre	Nr..... Nr..... Nr.....	Single € 105,00 Double/Twin € 135,00 Double for single use € 115,00	+ City Tax € 2,30 p.p/p.n.
HOTEL ROMA E ROCCA CAVOUR *** Turin Centre	Nr..... Nr..... Nr.....	Single € 102,00 Double/Twin € 136,00 Double for single use € 117,00	+ City Tax € 2,30 p.p/p.n.

**no-show: one night penalty charge for any room. In case of no-show, the room will be charged as a penalty and automatically released*

Above-mentioned penalties will be charged on the credit card offered as a guarantee for the hotel accommodation.

Credit card guarantee required

AmEx Eurocard Diners Visa Master

N° Scadenza (Exp.)/...../.....

Nome / Name firma / Signature



ASSOCIAZIONE TECNICA DELL'AUTOMOBILE

SAE International®

**REGISTRATION FORM – THE CONVERGENCE OF SYSTEMS TOWARDS SUSTAINABLE MOBILITY
7-8 NOVEMBER 2012 – CENTRO CONGRESSI LINGOTTO, TORINO (ITALY)****WEB www.ata.it**

on-line registration form is available

MAIL marisa.giunipero@crf.itPlease return this form to:
Marisa Giunipero (ATA)
FAX +39 011 9080400**FAX +39 011 9080400**

You can also send a complete form by fax. Please use the capital letters in the form.

Attendee InformationSurname _____
Name _____
Job Title _____
Company _____
Dept _____
Address _____
Post Code _____ / City _____ / Country _____
Phone _____
Mobile _____
E-Mail: _____**Conference registration** (fees include: on-line presentations, lunches, coffee, congress dinner and 21% VAT). Please check the appropriate category:

Delegate <input type="checkbox"/> 1197,90 EUR	Speaker <input type="checkbox"/> 363,00 EUR
ATA & SAE Member <input type="checkbox"/> 968,00 EUR	University <input type="checkbox"/> 363,00 EUR
European Projects Partner <input type="checkbox"/> 968,00 EUR	Student (ATA Juniors, SAE Students) <input type="checkbox"/> FREE (congress dinner is not included)
EU Small Enterprise <input type="checkbox"/> 665,50 EUR	Media <input type="checkbox"/> FREE
ATA Silver Member <input type="checkbox"/> 605,00 EUR	Extra congress dinner <input type="checkbox"/> 70,00 EUR

- Bank transfer to A.T.A. - S.r.L. - Banca Popolare di Novara, Filiale Beinasco TO (Italy)
IBAN: IT42L0503430090000000020407 – BIC: BAPP IT 21 A 93
- Credit card at the Conference registration desk (do not send in advance your credit card number to be authorized for payment because we do not have this facility).
- On-line payment on <http://www.ata.it>

Full refund given to cancellations received in writing prior to **24/10/2012**. No refunds after this deadline.**I am interested in:**

- Track 'Future Powertrain'
- Track 'Electronic Systems for Vehicle Propulsion'
- Track 'Intelligent Vehicle Systems'

I will attend the Congress dinner on 7 November **YES** **NO****Invoice to Company:** _____

Dept _____

Address _____

Post code _____ City _____ Country _____

Partita IVA - VAT Number (Compulsory for Italian and EC Companies) _____

Codice Fiscale (only for Italian Companies) _____

Account dept Phone: _____ Account dept E-Mail: _____

In compliance with art. 7 of Italian law 196/2003, your personal data are used exclusively for processing ATA activities. For further information about our privacy policy: <http://www.ata.it/en/content/42/privacy/>

Date.....Signature.....