ATA
ASSOCIAZIONE TECNICA DELL'AUTOMOBILE

SAE TORINO
An SAE International Section

CO_2 reduction for Transportation Systems Conference

Programme

June 29-30, 2016
July 1 , 2016
Politecnico di Torino
Torino – ITALY

CONFERENCE SCOPE: This multi-track Conference will examine items critical to powertrains, vehicles and intelligent transportation systems development through high level business keynotes, industry-focused panel discussions and technical presentations with the goal of creating more sustainable transportation systems

Sponsor

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Foreword

ATA - Associazione Tecnica dell'Automobile and SAE International Torino Group are pleased to announce the 1st edition of the CO_2 reduction for Transportation Systems Conference, to be held in Turin on 29th and 30th June 2016.

The conference addresses to all players in this field, including vehicle manufacturers, suppliers of components and systems, public entities, decision makers, engineers and scientists.
This event will provide an excellent platform for information exchange on an International level.

The speakers panel include National and International Public Entities representatives as well as car manufacturers and leader suppliers so to enable a deep discussion on the EU Regulation on CO_2 form 2020 and beyond and most suitable technology approach.

The Programme divided into the following main theme areas:

- Regulation overview
- Aerodynamics and drag forces reduction
- Powertrain improvement and electrification
- Energy recovery and thermal management

The conference includes round table and get together event to allow direct discussion with panelist

Scientific Committee

BELINGARDI Giovanni	Politecnico di Torino
CANTORE Giuseppe	Università di Modena
CARABELLI Stefano	Politecnico di Torino
CARELLO Massimiliana	Politecnico di Torino
DI GIUSTO Nevio	ATA
GERINI Andrea	Centro Ricerche Fiat
MALVICINO CarloAndrea	Fiat Chrysler Automobiles
MASTINU Giampiero	Politecnico di Milano
MILLO Federico	Politecnico di Torino
OROFINO Luigi	Fiat Chrysler Automobiles
VAGLIECO Bianca	CNR – Istituto Motori

Organizing Committee

BIANCHI Marzio	SAE Torino
DAL POZ Alberto	SAE Torino
GALLIANO Federico	GME Powertrain
MANTOVANI Patrizia	ATA
MORRIS Paola	Public & Private Consultant
MOSCA Francesco	AMMA TORINO
RIGHES Giuseppe	ATA
TEMPORELLI Valentina	SCHAEFFLER

About ATA – Associazione Tecnica dell'Automobile

ATA – Associazione Tecnica dell'Automobile was founded on 3rd January 1948, in order to increase a technical awareness about the automobile field in Italy.
Its headquarters are in Orbassano (Torino). The Society also directs its activities through Regional Branch Offices, based on the activities of local universities' excellence centers.
Today ATA has over 3000 individual members including students, researchers, academics, engineers and technicians involved in the automotive technology and over 200 partners in the most important universities and companies operating in this area.
ATA is one of the founding organizations of FISITA (Fédération Internationale des Sociétés d'Ingénieurs des Techniques de l'Automobile), formed in 1948, and of EAEC (European Automobile Engineers Cooperation) founded in 1984.

About SAE Torino

Established in 2008 as a local Section of SAE International, a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. SAE International's core competencies are life-long learning and voluntary consensus standards development. SAE International's charitable arm is the SAE Foundation, which supports many programs, including A World In Motion® and the Collegiate Design Series.
Every day, we demonstrate our commitment to society through local, national, and international public awareness programs that promote vehicle safety and maintenance and energy resource conservation. Through the SAE Foundation, we are also deeply involved in the engineering-related education of children, teachers, college students, and faculty. Industry and faculty awards provide recognition to outstanding contributors in the profession.

Morning

Aula Magna "Giovanni Agnelli" – First floor

8.00-9.00 Participants' Registration

9.00 Plenary Welcome Address
- **N. Di Giusto – *ATA President***
- **A. Dal Poz – *SAE Torino President***
- **C. L. Oge – *2016 SAE International President***

9.30 Plenary Opening Key Notes

9.30 S. Malfettani – JRC Eco-innovation
Innovative technologies to reduce real world CO_2 emissions

9.55 M. Koers – German Association of the Automotive Industry – VDA
Future Challenges of Reducing CO_2 Emissions in the Car Industry post 2020

10.20-11.00 Networking break

Parallel Sessions

Aula Magna "Giovanni Agnelli" – First floor	Sala Consiglio di Facoltà – Ground floor
11.00 New Powertrains Development / Part 1	**Electromobility & Ecodriving**
11.00 G. Fraidl – AVL *Impact of Extended Emission Compliance on Passenger Car Powertrain Technology*	G. Pede – ENEA *Fast charge application for local public transportation*
11.25 V. Doria – Centro Ricerche FIAT *Knock MitigationTechnicques for highly boosted downsized SI engines*	M. Cisternino – GM *S&S Sailing applied to a Diesel MT e-clutch system: CO_2 and driveability analysis*
11.50 L. Borgia – GM *An example of Diesel engine right-sizing: the 1.6 engine family from General Motors*	S. Serra – JRC *Correlation of NEDC and WLTP CO_2 emissions on HVs and PHEVs: experimental evidence*
12.15 A. M. Merlo – Centro Ricerche FIAT *Gastone: an integral approach to maximize efficiency in heavy duty CNG engines*	G. Forneris – CECOMP *Designing new vehicles for ecomobility: CECOMP's approach*

12.40-14.00 Lunch

Afternoon

Parallel Sessions

Aula Magna "Giovanni Agnelli" – First floor	Sala Consiglio di Facoltà – Ground floor
14.00 New Powertrains Development / Part 2	**Aerodynamics & Rolling Resistance**
14.00 T. Körfer – FEV Holding *Tailored solution or support in CO_2 reduction strategies and compliance with upcoming RDE requirement for Passenger car Diesel Engines*	Z. Samaras – Aristotle University Thessaloniki *The Worldwide Harmonized Test Protocol: How the new Regulation will affect CO_2 emissions from modern passenger cars?*
14.25 G. Hardy – FPT Industrial *Heavy Duty Diesel Engines CO_2 reduction: technical challenges to achieve a brake thermal efficiency above 50% in the near futures*	P. Massai – Politecnico di Torino *Aero for city cars*
14.50 A. Vassallo – GM *Combustion System Design and Development Process for Modern Automotive Diesel Engines*	E. Mallet – Michelin *Tire contribution to CO_2 emissions*
15.15 G. De Paola – IFP *Fuel efficiency improvements for post-Euro 6 Diesel engines*	I. Calaon – CNH Industrial *Long Haulage Aerodynamic Evolution*

15.40-16.10 Networking break

Aula Magna "Giovanni Agnelli" – First floor

16.10 Plenary Session: Thermal Management

16.10 F. Atschreiter – Magna Powertrain
Selected Topics on CO_2 Reduction by optimizing Thermal Management in Automotive Applications

16.30 G. de Pelsemaker – Valeo
The 4 pillars of the thermal management to reduce or enable CO_2 emission

16.50 Plenary Session & Round Table:
The "Cluster" Projects for Sustainable Mobility in Italy
Chairman: N. Di Giusto – ATA

M. Maggiore – Project Officer, European Commission
Low carbon scenario in European Challeges – Horizon 2020

A. Di Febbraro – Università di Genova, National Delegate Horizon 2020 "Smart, green, and integrated transport"
The Italian Answer to low carbon challenge in transportation – the Cluster way

Round Table participants:
- V. Bucci — Università di Trieste
- A. Di Febbraro — Università di Genova
- A. Maggiore — European Commission
- G. Mastinu — Politecnico di Milano
- E. Pisino — Centro Ricerche FIAT
- R. Trivilino — IAM

18.00 Closing Day One And Soft Drink

June 30, 2016 Programme

Morning

Aula Magna "Giovanni Agnelli" – First floor

8.00-9.00 Participants' Registration

9.00 Hybridization & Electrification Scenario beyond 2020

9.00 U. Wagner – Schaeffler
Electric Driving – Paradigm Shift or Modular Approach for a Holistic Solution?

9.25 M. Canova – Ohio State University
Powertrain Electrification Trends in China, Europe and USA

9.50 M. Caggiano – FEV
From mild hybrid to electric vehicle: scenario beyond 2020

10.15-11.00 Networking break

Parallel Sessions

Aula Magna "Giovanni Agnelli" – First floor

11.00 Alternative Fuel Session

11.00 P. Bielaczyc – Bosmal
The current role of alternative fuels in the road transport sector – can they survive low oil prices?

11.45 V. Bevilacqua – Porsche Eng.
Investigation of CNG potential in high performance turbocharged engines

12.10 M. Ferrera – Centro Ricerche FIAT
CNG 2.0

12.35 C. Zabeu – Instituto Maua de Tecnologia Brazil
Ethanol – a real and ready alternative for GHG reduction

Sala Consiglio di Facoltà – Ground floor

11.00 Lightweight Session

11.00 G. Belingardi – Politecnico di Torino
A. Pipino – Centro Ricerche FIAT
Role of materials to foster car weight reduction

11.20 N. McGregor – Ricardo
Passenger Car Light-weighting Trends – Approaches and Roadmap For The Future

11.40 R. Frassine – Politecnico di Milano
The role of composite materials for the reduction of the environmental impact in transportation applications

12.00 S. Cecchel – Streparava
Light commercial vehicles' mass reduction impact on fuel consumption, CO_2 emissions, air quality and socio-economic costs

12.20 E. Cischino – Pininfarina
E. Mangino – Centro Ricerche FIAT
EVolution funded project: body structure design strategies using new composite and Aluminum materials and enabled technologies

12.40 M. Ahlers – BMW
Carbon Core – The innovative Body-in-white of the New BMW 7 series

13.00-14.00 Lunch

Afternoon

Aula Magna "Giovanni Agnelli" – First floor

14.00 Life Cycle Assessment (LCA)

14.00 M. Pierini – Università di Firenze
Life Cycle Assessment from Cradle to Grave of electric and conventional ICE vehicles

14.25 F. Bonino – Centro Ricerche FIAT
Life Cycle Assessment on FCA vehicles

14.50 CO_2 Scenario beyond 2020

14.50 N. Hill – Ricardo
The options for reducing European transport GHG emissions in the context of EU targets for 2030

15.15 A. Nervo – ANFIA President
(Title tbd)

15.40 Plenary Closing Address
Conference Chairman WRAP UP

16.00 End of Congress

June 30, 2016 Technical Tours

16.30 -17.30 Visit to General Motors Powertrain Europe - Turin Center

July 1, 2016 Technical Tours

9.00–11.00 Visit to Maserati Plant – Grugliasco (TO)
(Bus departure from Politecnico at 8.00)

11.00–13.00 Visit to CECOMP Plant – La Loggia (TO)

Information

Contacts:

- ***For technical – scientific information:***

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- ***For organisational enquiries:***

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www.saetorinogroup.org

ATA - Associazione Tecnica dell'Automobile
Strada Torino, 32/A – 10043 Orbassano (TO)
co2_congress@ata.it
www.ata.it

Venue
The Conference will take place at:
Politecnico di Torino – Corso Duca degli Abruzzi, 24 – Turin
- Aula Magna "Giovanni Agnelli" – First floor
- Sala Consiglio di Facoltà – Ground floor

Language & Presentations
Presentations will be written and presented in English. It will be possible to download them from the ATA and SAE Torino websites. The access will be limited to the participants, by using a password that will be provided by Conference Secretariat by email after the Conference.
Some innovative Presentations may be eligible for subsequent publication in ATA Review.

Payment
See the Conference fees page of this programme.

Hotel information
Accommodation is not included in the Conference registration fee.
You will find some hotel suggestions in the next page.

Suggested Hotels

Hotel NH Ambasciatori TORINO ☆☆☆☆
Corso V. Emanuele, 104 – 10121 Turin
Booking: +39 02 87368144
(request special rate for Politecnico di Torino)
Phone: + 39 011 57521
Fax: + 39 011 544978
nhambasciatori@nh-hotels.com
www.nh-hotels.com

BOSTON ART HOTEL ☆☆☆☆
Via Andrea Massena 70 – 10128 Turin
Phone: +39 011 500 359
prenotazioni@hotelbostontorino.it
www.hotelbostontorino.it

BEST WESTERN Hotel Luxor ☆☆☆
Corso Stati Uniti 7 – 53100 Turin
Tel: +39 011 5620777
Fax: +39 011 5628324
luxor.to@bestwestern.it
www.hoteluxor.it

Hotel Ibis Styles Torino Porta ☆☆☆
Via XX Settembre 4 – 10121 Turin
Phone: +39 011 5620653
Fax : +39 011 5625866
H8206@accor.com
www.ibis.com

BEST WESTERN PLUS Executive Hotel and Suites ☆☆☆☆
Via Nizza, 28 – 10123 Turin
Phone: +39 011 6507707
Fax: +39 011 6507700
executive.to@bestwestern.it
www.hotelexecutivetorino.com

Holiday Inn Turin City Centre ☆☆☆☆
Via Assietta 3 – 10128 Turin
Phone. (+39) 011-51 67 111
Fax (+39) 011-51 67 699
info@holidayinntorino.co
www.holidayinntorino.com

Best Quality Hotel Politecnico ☆☆☆
Corso Peschiera, 117Bis – 10141 Turin
Phone.:+39 011 3853953
Fax: +39 011 3352880
politecnico@bqhotel.it
www.politecnico.bqhotel.it

Roma e Rocca Cavour Hotel ☆☆☆
Piazza Carlo Felice, 60 – 10121 Torino
Phone: +39 011 5612772
Fax: +39 011 5628137
info@romarocca.it
www.romarocca.it

Conference fees

Online Registration form: click here

(Prices in Euros, VAT included)

Category	Within, 15 2016	After June, 15 2016
SAE/ATA/AEIT/IMAPS Members and Coauthors (includes registration package 1)*	• € 200,00	• € 250,00
SAE/ATA/AEIT/IMAPS NON Members (includes registration package 1)*	• € 250,00	• € 300,00
SAE/ATA/AEIT/IMAPS Members registered to both the Conferences*** (includes registration package 1)*	• € 150,00	• € 185,00
SAE/ATA/AEIT/IMAPS NON Members registered to both the Conferences (includes registration package 1)*	• € 180,00	• € 225,00
SAE/ATA/AEIT/IMAPS Students Members (includes registration package 2)**	FREE	• € 50,00
INVITED SPEAKERS AND CHAIRPERSONS are FREE and will be registered directly by the Conference Secretariat.		

Package 1:** Technical Sessions, Downloadable Proceedings, Technical Tours*, Coffee Breaks, Lunches

**** Up to max number of participants

****Package 2:** Technical Sessions, Downloadable Proceedings, Coffee Breaks
Students will be required to provide documentation proving their status and confirming SAE/ATA/AEIT/IMAPS membership

*** The other Conference is AUTOMOTIVE 2016, 4-5 July 2016, Politecnico di Torino, Turin, Italy.
Please note the official language of the AUTOMOTIVE Conference is Italian.

PAYMENT:

- **CREDIT CARD** (Visa, Mastercard and American Express are accepted). The form is secure and if you decide to pay by credit card, your credit card information is encrypted during the registration process
- **BANK TRANSFER**
  Very important note: bank transfer document must clearly indicate:
  - Family name(s) and first name(s) of delegate/s
  - name of Company or Institution
  - reference: CO2 REDUCTION

PLEASE SEND COPY OF THE BANK TRANSFER TOGETHER WITH A COPY OF THE ON-LINE REGISTRATION FORM TO THE CONGRESS SECRETARIAT

- by e-mail, as an attachment to registrationco2reduction@axeacongress.com
- or by fax (+39) 011.59.08.33

Transfer should be net and exclusive of any bank charges to the Congress.

PLEASE DO NOT SEND PAYMENTS WITHOUT REGISTERING TO THE CONFERENCE.

CONFIRMATION OF REGISTRATION

You will receive a confirmation of registration by e-mail. If you do not receive a confirmation e-mail from the Congress Secretariat in a reasonable time, please send an e-mail to: registrationco2reduction2016@axeacongress.com

REFUNDS

If cancellation occurs **before June 15th, 2016** will have full refund of the registration fee less € 50 handling fee.
If cancellation occurs **after June15th, 2016** there will be no refund.
Refunds will be made after the Congress.
If, for reasons beyond the control of the Organizing Committee the Congress is cancelled, registration fees will be refunded after deduction of expenses already incurred.