

Issue 3 ● June 2011

*Dear President,
Dear Secretary,
Dear Members of the National EAEC Societies,
Dear Friends and Colleagues,*



This is the last issue of the EAEC Newsletters under my EAEC presidency. In the closing ceremony of the EAEC 2011 Congress, I will hand over the EAEC flag to my successor Dr. Vollrath from VDI/ Germany. I will also step down from my function as FISITA Vice President Europe. These two functions should be in one hand.

I can look back to eleven years as FISITA VP Europe and six years as EAEC President. During this time, I was involved in recruiting new member societies in Belarus, Croatia, Latvia and Lithuania.

I was very honoured to have become an Honorary Member of the Hungarian and Romanian Societies and of KONES the Polish Combustion Engine Society.

For EAEC I worked out the New Agreement, a new homepage and I revived the EAEC Newsletters.

In this respect, I would like to thank the Austrian Society of Automotive Engineers, ÖVK, for supporting me in these two functions. It would have been impossible for me to fulfil my tasks without the excellent infrastructure of the ÖVK office.

Next week, there is our main event in EAEC:

EAEC 2011 Congress

14 – 16 June 2011

Valencia, SPAIN

<http://eaec2011.com/>

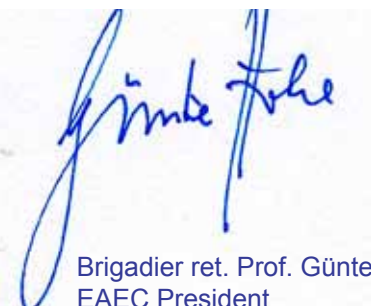
More information about the tourist attractions in the surroundings of Valencia are given.

The congress offers three attractive tours in the „**Social Programme**“ and a „**Welcome Reception**“ as well as a „**Gala Dinner**“.

The accommodation in three hotel categories with links to the booking website and the links to the hotels are given.

The various possibilities for sponsors and users of the exhibition are mentioned again.

In „**The Historic Corner**“, I am giving an overview of the automobil history in connection with the general history in the 18th and 19th century.



Brigadier ret. Prof. Günter Hohl
EAEC President

Future Main Event

**13th EAEC European
Automotive Congress**



VALENCIA

EAEC 2011

The Automobile in the Second Decade:

Sharing all Energy Solutions

WWW.EAEC2011.COM

From 13th to 16th June 2011

Valencia, Spain



Organized by:



CONGRESS REGISTRATION

The online registration is now available on the homepage

<http://www.eaec2011.com/>

Congress Venue

Valencia provides the perfect backdrop for the 2011 EAEC Congress. It has many attractions, making it one of the best locations for conference, tourism and trade activities in Europe. It is easily accessible from any part of the globe.

Valencia has an important automotive industry led by Ford and its suppliers, which are located all around the region.



Fees

The congress fees in Euros will be:

Delegates	
Fisita member societies	760
OECD	810
No OECD	600
Speakers, session chairs & poster authors	
OECD	600
No OECD	450
Students	
Day ticket	200
Accompanying person	500
	200

Contact

Sociedad de Técnicos de Automoción (STA)

Phone: +34.93.233.24.41
Email: eaec2011@stauto.org

EXHIBITION & SPONSORING OPPORTUNITIES

The accompanying exhibition is an excellent opportunity to demonstrate your latest products and services, to present technology developments, or present the company itself.

The target groups of the congress are managers and specialists of car manufacturers, suppliers, logistical and freight companies, science, research and development specialists and representatives of international automotive organizations.

The exhibition is a perfect opportunity to retain present customers and gain new ones.

More details can be found on the congress homepage:
<http://www.eaec2011.com/content/exhibition>



TOPICS OF THE CONGRESS

A POWERTRAIN AND GREEN TECHNOLOGIES

- A1 Hybrid Drives
- A2 Electric Drives
- A3 Powertrain Performance
- A4 Fuels and Lubricants
- A5 Noise, Vibration and Harshness (NVH)
- A6 Environment and Vehicle Recycling

D MANUFACTURING AND PROCESS INNOVATION

- D1 Production Technology
- D2 Production Processes
- D3 Supply Chain and Logistics
- D4 Flexible Processes
- D5 New Quality Inspection Technologies

B NEW CONTROL SYSTEMS AND MATERIAL

- B1 Passenger Cars
- B2 Buses and Trucks
- B3 New Materials
- B4 New Vehicle Systems
- B5 TIC Systems

E SAFETY AND HUMAN FACTORS

- E1 Vehicle Safety
- E2 Human Factors and Safety
- E3 PMR Safety
- E4 Accident Analysis and Reconstruction
- E5 New HMI Technologies
- E6 Haptic Technologies

C NEW CONTROL SYSTEMS AND MATERIAL

- C1 Suspension
- C2 Steering Systems
- C3 Brakes
- C4 Tyres
- C5 Advanced Dynamic Vehicle Control



Nexus congress building



Plenary hall



Lecture room

All lecture rooms are named after a Spanish scientist



Tent for lunch and coffee break

Congress Social Programmes

Monday 13 June



Exhibition Palace 1909



Exhibition Palace now

The **Exhibition Palace** was erected to be used as the municipal seat for the 1909 Regional Exhibition and the 1910 National Exhibition, where special events and celebrations were held.

The Palace's merit undoubtedly lies in the harmony between the architecture and the sumptuary and industrial arts which, as in the work of Gaudí, are exquisitely represented here through the wrought and cast iron works, the ceramics, the stained glass, and the woodwork.

Wednesday 15 June

GALA DINNER

20:00 h

(Price 100 EUR per person including VAT)

Mar de Bamboo Restaurant

located at the port of Valencia in the emblematic building *Veles e Vents*, with views of the Mediterranean. Next to the gala dinner building will be an exhibition of classical cars.



The beautiful „**Mar de Bamboo**“ restaurant needed timeless chairs, that represent the elegance of the incredible America's Cup Building, „*Veles e Vents*“, which was developed by David Chipperfield. The solution was the **Ultra Bellini Chair** in white.

Programme Overview

MONDAY

ROOM > 1 2 3 4 5 6 7 8

19:00 - 20:30 WELCOME CEREMONY

TUESDAY

ROOM > 1 2 3 4 5 6 7 8

09:00 - 09:30 OPENING CEREMONY

09:30 - 13:00 PLENARY SESSIONS

13:00 - 14:30 LUNCH BREAK

14:30 - 16:00 Electric Drives

Powertrain Performance

Passenger Cars

Suspension

Human Factors and Safety

Vehicle Safety

Production Technology

16:00 - 16:30 COFFEE BREAK

16:30 - 18:00 Electric Drives

Powertrain Performance

Passenger Cars

Suspension

Human Factors and Safety

Vehicle Safety

Production Technology

WEDNESDAY								
ROOM	1	2	3	4	5	6	7 8	
09:00 - 11:00	Hybrid Drives	Powertrain Performance	Powertrain Performance	Buses and Trucks	Suspension	Human Factors and Safety	Vehicle Safety	Production Processes
11:00 - 11:30	COFFEE BREAK							
11:30 - 13:00	Powertrain Performance	Powertrain Performance	Noise Vibration and Harshness	New Materials	Brakes	PMR Safety	Vehicle Safety and Accident Analysis and Reconstruction	Production Processes and Supply Chain and Logistics
13:00 - 14:30	LUNCH BREAK							
14:30 - 16:00	Powertrain Performance	Powertrain Performance	Powertrain Performance	New Materials	Tyres	Steering Systems	Vehicle Safety	Supply Chain and Logistics
16:00 - 16:30	COFFEE BREAK							
16:30 - 18:00	Fuels and Lubricants and Environment and Vehicle Recycling	Powertrain Performance	TIC Systems	New Vehicle Systems	Tyres	Steering Systems	Vehicle Safety	Flexible Processes and New Quality Inspection Technologies
20:00	GALA DINNER							
THURSDAY								
ROOM	1	2	3	4	5	6	7 8	
09:00 - 11:00	Powertrain Performance	Hybrid Drives	Stability	New Vehicle Systems	Advanced Dynamic Vehicle Control	New HMI Technologies and Haptic Technologies	Vehicle Safety	New Quality Inspection Technologies
11:00 - 11:30	COFFEE BREAK							
11:30 - 13:00	CLOSING PLENARY SESSION							
13:00 - 14:00	FAREWELL LUNCH							

ACCOMPANYING PROGRAMME

Tuesday 14 June

Tour 1: VALENCIA CITY SIGHTSEEING AND ALBUFERA

Estimated length of the visit: 2 hours.

Meeting time: 16:00 h

The tour will offer an overview of the old and new city. The special tour bus will also drive us to the city surroundings at the **Albufera Nature Reserve**, where a special lake connects to the sea.

The visit will end at Congress hotels..

All excursions start at the
Meeting Point:
UPV Conference Building,
Registration Room.



The Albufera is a saltwater lagoon on the coast of Spain, 11 km south of Valencia.

It is the main part of the Albufera Nature Reserve (Parque Natural de la Albufera), with a surface area of 21,120 hectares.

Its proximity and easy access from the city of Valencia facilitate nature-watching.

The whole year long, the great bio-diversity of this protected natural space means a great variety of fauna and flora can be observed.

Wednesday 15 June

Tour 2: HISTORICAL VALENCIA, CENTRAL MARKET TOUR AND TASTING OF TRADITIONAL FOOD

Meeting time: 09:30 h

Length of the visit: 4 hours

This visit is focused on the historical city centre and the most outstanding monuments of the city such as the **Estación del Norte** (North Station), (Serrano and Quart Towers), **Mercado Central** (the Central Market), la Lonja (the old silk exchange), **Plaza Redonda** (the Round Square), the **Cathedral**, (Virgin Square) and the exterior of the **Basilica**.

The visit includes a special tour to the Cathedral and a tasting of traditional Valencian food and drink such as paella, ham, cheese, wine, etc. at the Central Market of Valencia.



Traditional Valencian food



Thursday 16 June

Tour 3:

CITY OF ARTS AND SCIENCES AND THE OCEANOGRAPHIC AQUARIUM

Meeting time: 09:30 h

Length of the visit: 4 hours

Visit the new landmark of the city, a state-of-the-art architectural and entertainment complex designed by Santiago Calatrava and located on the old Turia riverbed with 5 different areas.

- **Umbracle:** palm-tree garden covered by a big iron structure, the monumental veranda serves as an entrance to the Complex.
- **Palacio de las Artes Reina Sofía** (Palace of Arts): the opera house
- **Hemisféric:** building conceived as a large human eye where there is a planetarium and where IMAX movies and laser shows are shown.
- **Museo de las Ciencias Príncipe Felipe** (Science Museum): enormous interactive museum.
- **Oceanographic Aquarium:** the tour will be focused on visiting the area that is considered to be one of the largest and most important marine parks in Europe.

L'Umbracle is the entry port to the City of Arts and Sciences. It is shaped by a succession of 55 fixed arches and 54 floating arches 18 metres high.

On them grow climbing plants, which provide shade along the whole landscaped walk and give a feeling of a „*Winter Garden*“.

Planted with native species, palms, orange trees, rock roses, mastic trees, rosemary, bougainvillea, that change shape and colour with every season, different ambiances are created over the course of the walk.

Inside the structure is an outdoor art gallery, called the 'Stroll of the Sculptures' with nine sculptures from contemporary artists.



Queen Sofia Palace of the Arts (Valencian: Palau de les Arts Reina Sofia), is an opera house and cultural centre in Valencia, Spain.

The theatre opened on 8 October 2005. The first opera presented, Beethoven's Fidelio, was premiered on 25 October 2006.



L'Hemisfèric is a splendid Laserium, Planetarium and IMAX cinema (over a 900 square metres of screen).

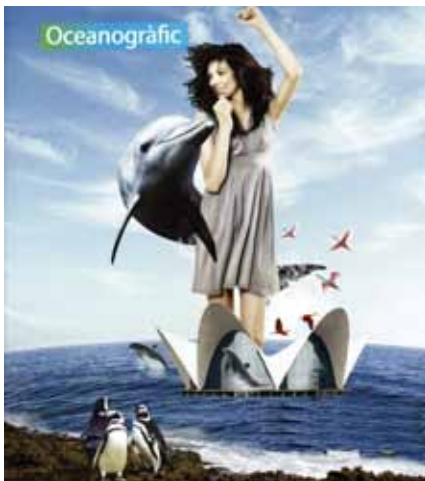


It belongs to the City of Arts and Sciences complex. It has the shape of an eye, and is reflected to a 24.000 square metres lake.

The cover of the cinema looks like the eye lids of the eye, and can be closed or opened.

El Museo de les Ciencies Principe Felipe

The building was designed by Santiago Calatrava and resembles a whale skeleton. It is oriented to learning the scienc ethrough experience, so everything is graphically dispalyed , with huge texts and pics, exoeriments, buttons to tough and experience.



The **Oceanogràfic** is home to more different species than any other aquarium in the world.

One of its tunnels is, at 70 metres, the longest of its kind in Europe.

More than 25 kilometres of tubing around the Oceanogràfic can purify its water in only four hours.



Additional Sightseeing

Valencia is commonly known for its oranges, paella, and the beach; but today Spain's third-largest city is living a new golden age.

The **America's Cup** and the **Formula 1 Valencia Street Circuit** competition put the wind on its back, and now sleek design and architecture have splashed onto the buildings and culinary scene.



The waters of tradition and avant-garde design converge together in Valencia.

Founded in the 2nd century BC by the Roman Empire, the original Latin name given to the city was Valentia, meaning „strength“, recognising the courage of soldiers after winning a battle.

Since then, the brave Valencianos have built a city which has had a long and intensive love affair with its architecture.

Its latest landmark is undoubtedly the City of Arts and Sciences, an avantgarde and futuristic museum complex designed by Valencia-born architect Santiago Calatrava.





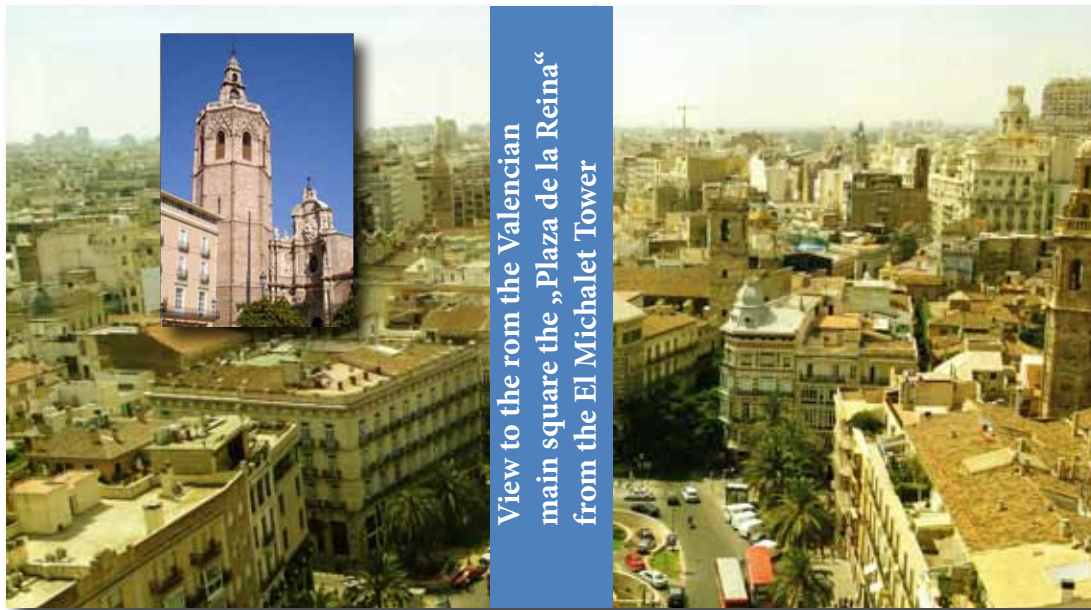
The **Ceramics Museum** is housed in the **Palacio de Marques de Dos Aguas**, dated 1740, a luxurious palace that combines Rococo, neo-classical and oriental elements.

The unbelievable Baroque entrance to the building never fails to impress visitors.

The rich ornament of the building is enough incentive to go there..

The fully furnished interior of the palace and the best of ceramics are offered through the centuries.

The octagonal bell-tower, called **Micalet**, is the landmark of the city. From here there is a great view over all Valencia, and Victor Hugo counted 300 more bell-towers in all the city (to control if this number is right could be a challenge to patient and unstressed visitors!)



View to the rom the Valencian main square the „Plaza de la Reina“ from the El Micalet Tower

San Juan del Hospital is one of the oldest churches in Valencia, built around 1261. The temple has a single nave covered with a pointed barrel vault. Inside, you may contemplate the magnificent chapel of **Santa Barbara** and others chapels with painted murals from the Gothic period.



Museo de Bellas Artes San Pio V

Located in a Baroque building recently renovated, The Fine Arts Museum San Pio V is one of the most outstanding painting archives in Spain, renowned for its collections of primitive Valencian painters, although there are also works by El Greco, Velázquez, Murillo, Goya, and some archeological pieces.

Leisure and Relaxing in Valencia



The **Plaza Redonda** is a charming corner in the Old Town.

It is a small round square surrounded by narrow streets.

Every Sunday morning it is home to a colourful market with everything from clothing to pets to religious stamps to books

Goods sold here are general items of all sorts, accessories, with a lot of brick-a-brack but you can also find quite a few good souvenirs and bizarre things. Various Valencian ceramics are also sold in quantities.

This is the authentic, historic every-day Carmen, from the days when it was still 100% Valencian. Sleepy afternoon, the siesta in full force, and someone playing the accordeon.



In Valencia, the city and nature blend together perfectly to offer a unique landscape. What once was a river is now a vast 14 km garden.

Following catastrophic flooding in 1957, the river was diverted in the southern section of the city and the old riverbed, now dry, created a long park crossing the city centre.

It was here that it was decided to locate the new complex of the City of Arts and Sciences, on flat land on the right bank of the final stretch of what was once the River Turia.



Valencia is truly blessed with beaches.

Fine sand, blue water, mediterranean breeze and ever-present Sun.

The beaches within Valencia are as good as a city beach can possibly get, suprising all travellers.

And just a few minutes by bus out of the city are real postcard beaches of top quality.

The Malvarrosa beach or '**Playa de Levante**' is easily reachable from Valencia city centre by metro, bus and car as well as on foot and by bicycle using the cycle path.



This is a beautiful sandy beach with great facilities and water sports equipment available.

The **Automotive ENGINEER** periodical is the official EAEC Magazine and the leading magazine for automotive engineers.

The Automotive Engineer Magazine is free for members of the national EAEC Member Societies.

To get free copies, it is easy to apply via the national society.

The AE magazine is published 11 times a year. January and February are this year in a double issue.

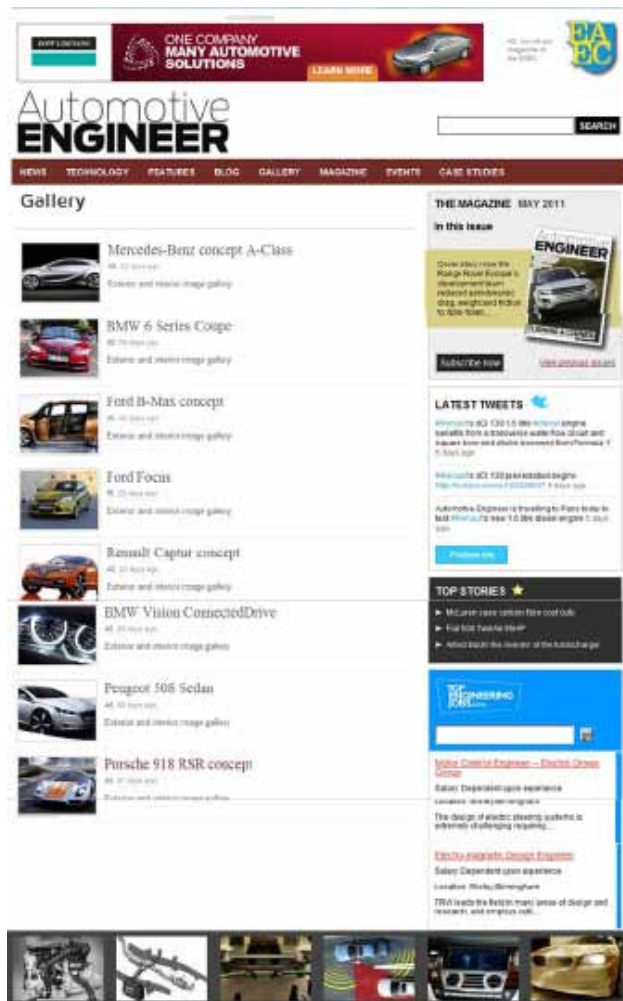
The Automotive Engineer Magazine offers an interesting website:

<http://ae-plus.com/>

Two links are presented in this issue:

GALLERY

In this page the latest developments of passenger cars are presented. Links from these several cars offer further nice pictures and information.



TECHNOLOGY

This page goes into details of vehicle components.

Technology

- 

McLaren sees carbon fibre cost cuts
10.05.2011 10:05 AM
 McLaren's new 12C sports manufacturing
- 

Ingrained quality
10.05.2011 10:05 AM
 How Bentley keeps wood looking good
- 

The bright idea
10.05.2011 10:05 AM
 New February 2011 (AE 111) is more effective
- 

BMW X1 drops straight six for two-line niche
10.05.2011 10:05 AM
 The high torque X1(x) and is developed from the heavy machine X1(x)
- 

ZF's need for speeds
10.05.2011 10:05 AM
 The new PowerShift 6-speed unit will prove an attraction in smaller, fuel-efficient, five applications
- 

Audi develops the smallest Quattro yet
10.05.2011 10:05 AM
 Every model in Audi's entry range will be offered with 4x4 technology
- 

Shell's thinner engine oil cuts carbon
10.05.2011 10:05 AM
 Development work is continuing for several applications
- 

Ford puts focus on energy efficiency
10.05.2011 10:05 AM
 Ford's new Focus electric vehicle's fuel consumption figures will be better than Chevy Volt's
- 

Volvo tests roadtrain
10.05.2011 10:05 AM
 Project aims to mechanically link vehicles together to increase safety
- Carbon fibre to cut Daimler's carbon emissions**
10.05.2011 10:05 AM



Accommodation

Five hotels in three categories are offered and can be directly booked.

These hotels can be found on the FISITA 2011 website:

<http://www.eaec2011.com/content/accommodation>

Please find more details about prices and location on the above homepage!

Please note that the Valencia Grand Prix will be held soon after the EAEC Congress and book the hotel early!

HOSPES PALAU DE LA MAR *****

Navarro Reverter, 14, 46004

Distance from Congress Venue:

5 minutes walk + 20 minutes by public transport



NH LAS ARTES ****

Avenida Instituto Obrero, 28, 46003

Distance from Congress Venue:

10 minutes walk + 15 minutes by public transport

BARCELO ****

Avenida de Francia, 11, 46023

Distance from Congress Venue:

15 minutes by public transport (Bus line 40)

+ 5 minute walk



NH CIUDAD DE VALENCIA ***

Avenida del Puerto, 214, 46023

Distance from Congress Venue:

5 minute walk + 15 minutes by public transport (Bus line 1) + 5 minute walk

NH EXPRESS LAS ARTES ***

Avenida Instituto Obrero, 26, 46013

Distance from Congress Venue:

5 minute walk + 15 minutes by public transport (Bus line 1) + 5 minute walk



Post Conference Information

32rd International Vienna Motor Symposium

5 - 6 May 2011

Congress Center Hofburg Vienna
Chairman: Univ.-Prof. Dr. H. P. Lenz



Proceedings are available via:

OEVK Office

E-mail address: info@oevk.at

or:

FISITA Book Shop

<http://www.fisita.com/publications/bookstore>

1050 participants from 23 countries
44 lectures in 42 presentations
46 Exhibitors

PLENARY OPENING SESSION

Thomas G Stephens,

Vice Chairman and Global Chief Technology Officer, General Motors Company, Detroit, MI, USA:

World's Best Vehicles:

Winning with the Right Bandwidth of Powertrains and Vehicle Architectures

Prof. KR Ing. Siegfried Wolf,

Chairman of the Board of Directors,

Russian Machines OJSC, Moscow:

The Future of the Russian Automotive Industry

Yoshihiko Matsuda, Managing Officer,

Toyota Motor Corporation, Aichi, Japan:

Toyota's Powertrain Strategy for Developed and Emerging Markets

Georg Pachta-Reyhofen, CEO,

MAN SE / MAN Nutzfahrzeuge AG, Munich:

The Future Development of Worldwide Goods Traffic and its Impact on Drive Technologies

Karl-Thomas Neumann, President & CEO,

Volkswagen Group China, Beijing, China:

What's Moving China? Powertrain Technologies

Martin Winterkorn, Chairman of the Board,

Volkswagen AG, Wolfsburg:

Electromobility for Everyone? An Industry Electrified



Plenary speakers
Opening session



Plenary speakers
Closing session

The Symposium took place at the **Museum Arbeitswelt**, „World of Working“ in Steyr, Upper Austria.

This museum is located in a revitalized style factory building from the mid-19th Century on the Steyr River.

It was in 1987 part of the Upper Austrian Regional Exhibition „Work / Human / Machine“.

Subsequently, it was transferred to the continuous operation of a museum and has established itself with extensive exhibitions, projects and events on socially relevant topics as an internationally recognized cultural centre.

11. Internationale Fachtagung
11th International Expert Conference

Nutzfahrzeuge 2011 Commercial Vehicels 2011

Truck – Bus – Van - Trailer



VDI WISSENSFORUM 2011 Steyr 18. – 20. Mai 2011

In the series of the VDI Commercial Vehicle Conferences this event had the most participants.

280 experts attended this event.

8 companies presented their products and services in an exhibition.



Proceedings are available via:
VDI Wissensforum GmbH
Verena Osowski
Tel: +49 211 6214-244
Fax: +49 211 6214-430
E-mail: osowski@vdi.de

VTMS 10

Vehicle Thermal Management Systems

15 - 19 May 2011

Heritage Motor Centre
Banbury Road, Gaydon
Warwickshire, United Kingdom

VTMS 10 covered the latest research and technological advances in the field of heat transfer, energy management, comfort and the efficient management of all thermal systems within the vehicle.

Proceedings are available via:
Stephanie Love (Deputy Manager)
T: +44 (0)20 7973 1312
F: +44 (0)20 7222 9881
E: s_love@imeche.org



was organized in Eindhoven at the **University of Technology** in the framework of the



This high-profile conference was one of the main events during the **Automotive Week 2011** and attracted over 800 professionals, discussing future automotive technologies and, attending over 60 technical and scientific lectures,

Proceedings are available via:
International Automotive Congress (secretariat)
e-mail: info@automotivecongress.nl This e-mail

News from the EAEC Societies

The Belgian Society of Automotive Engineers

has a new President

Prof. Dr. ir. Sebastian Verheist

Assistant Professor

Ghent University



The Austrian Society of Automotive Engineers **ÖVK** has a new logo

ÖVK ÖSTERREICHISCHER VEREIN FÜR KRAFTFAHRZEUGE
AUSTRIAN SOCIETY OF AUTOMOTIVE ENGINEERS

The reason to change the logo was to create a clear form, easy to copy in black and white.



Further professional activities of Prof. Verheist

- Member of SAE International, the Combustion Institute, VSWB (Flemish cooperation on hydrogen and fuel cells)
- Co-organiser of "Hydrogen IC engines" sessions at SAE conferences
- Invited as a keynote speaker to four international conferences (Berlin 2008, Donetsk 2007, Kyoto 2006, Istanbul 2004) and a colloquium at the Belgian House of Representatives
- Presented papers at over 20 international conferences

Future Automotive Events

VTMS 10 Vehicle Thermal Management System

Venue: Gaydon, Warwickshire, United Kingdom

15 - 19 May 2011

Organizer: IMechE

Website: <http://events.imeche.org/>

18th International Automotive Congress, Future Powertrains & Smart Mobility

Venue: Eindhoven, University of Technology

16 - 17 May, 2011

Organizer: Eindhoven, University of Technology

Website: <http://www.automotivecongress.nl/>

International VDI Congress Transmissions in Vehicles 2011

Venue: Friedrichshafen, Germany

7 - 8 July 2011

Organizer: VDI-FVT

Website: <http://www.getriebekongress.de/>

AMAA 2011

15th International Forum on Advanced Microsystems for Automotive Applications

Venue: Berlin, Germany

29 - 30 June 2011

Organizer: VDI/VDE Innovation

Website: <http://www.amaa.de/>



Venue: Valencia, Spain

14 - 16 June 2011

Organizer: STA and EAEC

Website: <http://eaec2011.com/>

Future Automotive Events

IAA 2011

Venue:
15 - 25 September 2011
Organizer: VDA
Website: <http://archiv.iaa.de>

CAR 2011

Venue: Pitesti, Romania
2 - 4 November 2011
Organizer: CAR 2011
Website: <http://www.siar.ro/>

Electronic Systems for Motor Vehicles

Venue: Baden - Baden, Germany
12 - 13 October 2011
Organizer: VDI-FVT
Website: <http://www.vdi.de>

X International Conference on Braking and Safety

Venue: Lodz, Poland
3 - 4 November 2011
Organizer: Association of Polish Mechanical Engineers
Website: <http://www.ptim.simp.p>

Conference of Internal Combustion Engines: Performance, Fuel Economy and Emissions

London, United Kingdom
29 - 30 November 2011
Venue: London, United Kingdom
Organizer: IMechE
Website: <http://www.imeche.org>

EAEC Member Societies

Austria

Austrian Society of Automotive Engineers

OEVK
Tel.: +43 1 585 27 41-0
E-mail: info@oevk.at
<http://www.oevk.at>



Belarus

Academic Automotive Association

AAA
Tel.: + : +375 172 92 1562
E-mail: vgorbash@bntu.by
<http://www.bntu.by>



Belgium

Union Belge des Ingenieurs de l'Automobil

UBIA
Tel.: +32(0)10 22 7664
E-mail: ubia@bskynet.by
<http://www.ubia.be>



Bulgaria

Society of Automotive Engineers in Bulgaria

SAEB
Tel.: +359 82 888450
E-mail: barzev@ru.acad.bg
<http://www.ru.acad.bg/>



Croatia

Croatian Societyfor Engines and Vehicles

CroSEV
Tel.: +86 10 633 45 599
E-mail: medica@ru.rith.hr



Czech Republic

Česká Automobilová Společnost

Tel.: +420 224 352 498
E-mail: cas-sae@email.cz
<http://www.cas-sae.cz/>



Finland

Suomen Autoteknillinen Liitto ry

SATL
Tel.: +358 9 694 4635
E-mail: satl@satl.fi
<http://www.satl.fi/>



France

Société des Ingénieurs de l'Automobile

SIA
Tel.: +33(0)1 41 44 93 73
E-mail: info@siafr
<http://www.sia.fr/>



EAEC Member Societies

Germany

VDI-Gesellschaft Fahrzeug-und Verkehrstechnik

VDI-FVT

Tel.: +49 211 6214 223

E-mail: fvt@vdi.de<http://www.vdi.de/fvt>**Hungary**

Gepipari Tudomanyos Egyesulet

GTE – Vehicle Devision

Tel.: +36 1 202 0582/0656

E-mail: mail.gte@mtesz.hu<http://www.gte.mtesz.hu/>**Italy**

Associazione Tecnica dell'Automobile

ATA

Tel.: +39 011 9083 559

E-mail: ata@crf.it<http://www.ata.it>**Latvia**

Latvia Association of Automotive Engineers

LAIA

Tel.: +371 951 2364

E-mail: jpg@one.lv<http://www.laia.lv/>**Lithuania**

Lithuanian Society of Autom. Eng.

LAIS

Tel.: +370 5 2744 792

E-mail: saugirdas.pukalskas@ti.vtu.lt<http://www.lais.lt/>**Poland**

Towarzystwo Inzynierowl Techniow Mechanikow

Poliskich **SIMP**

Tel.: +48 22 846 0011

E-mail: ajank@ilot.edu.pl<http://www.ptim.simp.pl/ptim/>**Romania**

Societatea Ingeerilor de Automobil din Romania

SIAR

Tel.: +40 21 316 9608

E-mail: siar@siar.ro<http://www.siar.ro>**Russia**

Association of Atomotive Engineers - Russia

AAE

Tel.: +7 495 994 9915

E-mail: a.gusarov@bk.ru<http://www.autoengineer.org/>**Serbia**

Jugoslovensco Drustvo za motore i vozila

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THE HISTORIC CORNER

The 18th century was characterized by rapid technological developments. The laws of nature were unveiled. The industrial revolution started in England. It was the time of “**The Age of Enlightenment**” in the era of Western philosophy. Intellectual, scientific and cultural life, centered upon in the 18th century, in which reason was advocated as the primary source for legitimacy and authority. It is also known as the “Age of Reason”. The political and economic systems changed. It is obvious that it was tried to find propulsion systems for vehicles apart from human or animal force. The first attempts for using steam as a source of energy for propelling a vehicle was, in fact, twenty years before the **French Revolution**. In order to make this part of the EAEC Newsletter not too long, only the most important developments of the automobile history are mentioned as well as only incisive occurrences of the general history.



Nicolas-Joseph Cugnot
(1725 –1804)



1769

First self-propelled mechanical vehicle.

In 1772, **King Louis XV** granted Cugnot a pension of 600 livres a year for his innovative work.



King Louis XV
(1710 –1774)



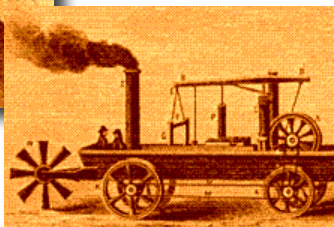
King Louis XVI
(1754 –1793)



Oliver Evans
(1755 - 1819)

1789

First U.S. patent for a steam-powered land vehicle was granted to Oliver Evans.



1780

1775

American Independence War

1783



George Washington
(1732 –1799)

1789

French Revolution

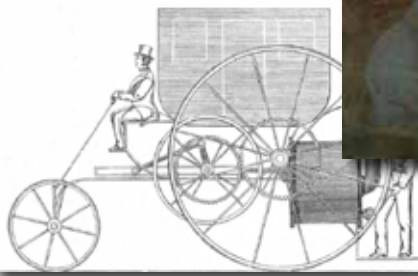


1799

Napoleon became „Consul“

1800

Richard Trevithick
(1771 – 1833)



London Steam Carriage

1803

1800



1814

Congress of Vienna

1815

The Congress of Vienna was a conference of ambassadors of European states and held from September, 1814 to June, 1815.

The Congress of Vienna was the first of a series of international meetings that came to be known as the **Concert of Europe**, which was an attempt to forge a peaceful balance of power in Europe.

1807

The Pyr  lophore
Historic drawing



Nic  phore Ni  pce
(1765 - 1833)

1810

1813

Hand car with a combustion engine



Fran  ois Isaac de Rivaz
(1752 – 1828)

1820

Victoria in the age of 4 years

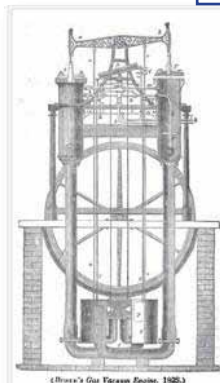


Queen Victoria
1819 – 1901

1830

Brown's Gas Vacuum Engine

1826



Samuel Brown
(+ 1852)

1837

Coronation of Queen Victoria



Sir Goldsworthy Gurney (1793-1875)

Model of a Gurney steam carriage



1826

First test trials with a steam vehicle

George Stephenson (1781 - 1848)



1830

1825 Stockton and Darlington Railway opened



1826

Thomas Davenport invented a battery electric car – batteries were not rechargeable

Thomas Davenport (1802 -1851)

1839

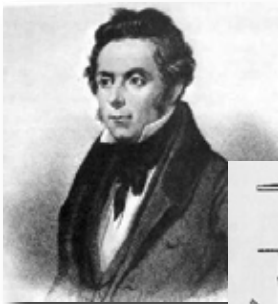
Kingdom of Belgium declared



King Leopold I (1790 - 1865)

1840

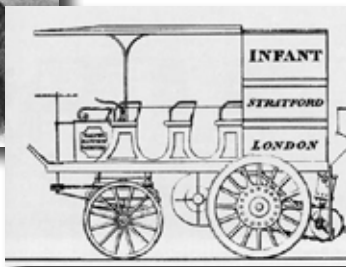
1839 July Revolution in France



Walter Hancock (1799-1853)

1832

„Infant“ experimental trip to Brighton.



1845

Annexation of the Republic of Texas to the USA as the 28th state.



Francis Macerone (1788-1846)

1832

Eight-passenger steam bus



1848

Liberal and nationalist ideologies sparked revolutions across Europe, The revolutionary Second Republic in France shook conservative Austria.



1850



John Scott Russell
(1808 -1882)

1834

First automobile accident
(Russell steam carriages)



1850

1861

American Civil War



1860

1865

1863

In Geneva, **Henry Dunant** founded the „Committee of the Five“, later „Red Cross“ together with four other leading figures from well-known Geneva



Raymond Louis Gaston Planté
(1834-1889)

1859

First accumulator or electric storage battery



Henry Dunant
(1828 - 1910)



1865

The „Red Flag Act“ discouraged further developments of road-steam-vehicles in England.



Jean Joseph Étienne Lenoir
(1822 - 1900)

1863

Lenoir three-wheeled carriage



1870

1869

Suez Canal Opening



Amédée-Bollée
(1844 – 1917).

1875

Steam stage “l’Obeissante”.





Very first electric locomotive



Werner von Siemens
(1816 – 1892)

1879

1870

1870

Prussian French War

Bismark and Napoleon III



1871

Battle of Mars-la-Tour



Electric three-wheeled automobile.



Gustave Trouvé
(1839–1902),

1881

1880

1871

Unification of Germany



William I,
(1797 - 1888)
German Emperer
(1871 – 1888)



Formal unification
Versailles Palace's Hall
of Mirrors



First successful tests on public roads



Carl Benz
(1844 – 1929)

1885

1890

1884

The Berlin Conference regulated European
colonization and trade in Africa during the

1885

New Imperialism period



First bus

1895



Carl and
Bertha Benz
„Victoria“ Model

1886

The Statue of
Liberty erected





Gottlieb Daimler
(1834 –1900)

1889

End of the Brazilian Empire and the beginning of the Brazilian Republic



Last Brazilian Emperor Pedro II
(1825 – 1891),



First Brazilian republican flag

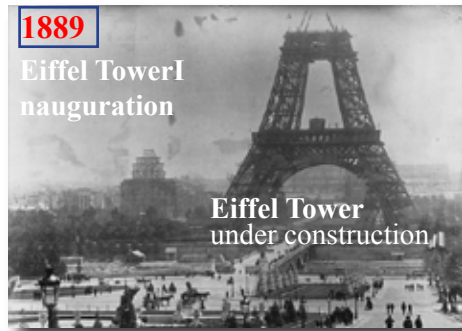


1886

First Daimler car

1889

Eiffel Tower inauguration



Eiffel Tower under construction

1896

First Daimler truck

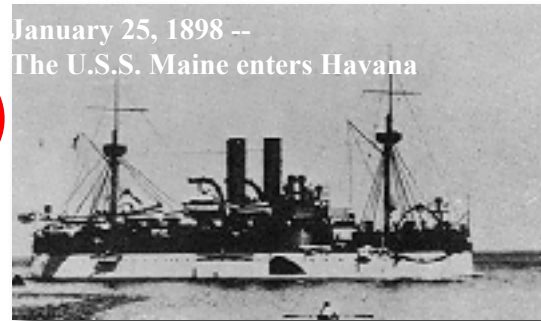


1890

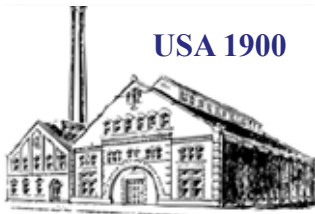
1898

Spanish–American War

January 25, 1898 --
The U.S.S. Maine enters Havana



1900



USA 1900

75 automobile factories

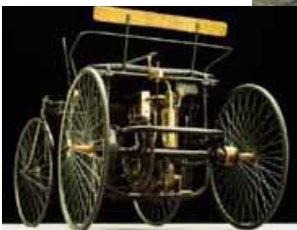


1,688 steam cars

1,575 electric cars



929 gasoline cars



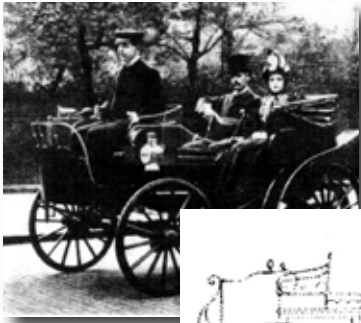
1901

Death of Queen Victoria

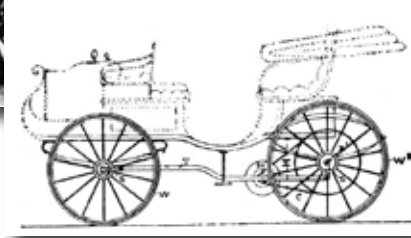
Coronation of King Edward VII



King Edward VII
(1841 -1910)



Electric car designed by Henry M. Joel

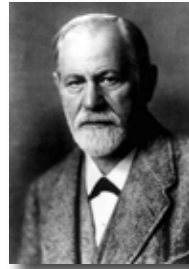


1900

1900

1900

Sigmund Freud, Austrian psychiatrist published „*The Interpretation of Dreams*“



Sigmund Freud
(1856–1939)



George Eastman
(1854 - 1932)

1900

George Eastman makes first portable camera that's affordable and open to the public

1902

Henry Ford founded Ford Motor Co.



Henry Ford
(1863 - 1947)



Orville Wright (1871 - 1948)
Wilbur Wright (1867 - 1912)

1902

Orville and Wilbur Wright take the first test flight in their plane at Kitty Hawk, NC



Ferdinand Porsche
(1875 - 1951)

1900

Electric Lohner Porsche car presented at the World Exhibition in Paris

