



# EAEC

ISSUE 2 • March 2009

# news

Newsletter to the Members of  
EAEC Automotive Engineers' Societies

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Dear President,  
Dear Secretary,  
Dear Members of the national EAEC Societies,

To my first EAEC Newsletter Issue 1, February 2009 I received positive reactions and some supplements to the list of automotive events, which are enclosed in this version. The additional events are marked with an asterisk \*. I would like to ask you to check the list and in case there are more events which are also being held in the language of your country, please inform me and send me the corresponding website.

In the "Historic Corner", I would like to introduce another genius mechanical engineer of the early automobile years "Richard Travithick". He really built the first automobile in the present definition, as a self-propelling vehicle transporting people and goods.

I also would request you to give me information with pictures about special occasions in your society or in your country like special birthdays, anniversaries, etc.. I will put this it in the next issue.

We cannot ignore that the world economy and thus the auto industry is now in a crisis. But it is a fact that the crisis does not have its origin in the automotive industry. In Europe, we have numerous automotive events like congresses, conferences, symposia and workshops. The great number of automotive events in Europe in the first half of the year 2009, despite the crisis, is a positive signal for the future and European automotive community, which is well prepared for the time after "tomorrow".

Well-functioning passenger and freight links are vital for European undertakings and citizens. Automobiles are not only passenger cars, but also trucks, buses and tractors or other automotive vehicles to assure safe and efficient travel throughout Europe. There is and will be a need for all kinds of automobiles.

The motto should be:

***Keeping Europe moving!***

Brigadier ret. Prof. Günter Hohl  
EAEC President  
Vice President FISITA Europe

The main events of EAEC are the biannual EAEC Congresses.

Please support the

12<sup>th</sup> EAEC European  
Automotive Congress  
Bratislava EAEC 2009



## Europe in the Second Century of Auto-Mobility

**29 June to 1 July 2009**

**Bratislava, Slovakia**

The biennial EAEC Congress provides excellent opportunities for automotive experts to present their latest results and to exchange information in the field of the automotive and related industries.

The 12<sup>th</sup> EAEC European Automotive Congress Bratislava will take place at Crowne Plaza Bratislava, a first class deluxe hotel, combining the best central location with comfortable accommodation, modern conference facilities and superb cuisine. The Hotel is situated in the heart of the city - opposite the Presidential Residence, within the pedestrian zone and only a few minutes walking distance to the famous Bratislava Castle and is the best location for the congress.



Bratislava is easily to reach, within 10 km distance from Airport in Bratislava, or 50 km distance from Airport in Vienna.

CONGRESS PROGRAMME

Monday, June 29					Tuesday, June 30					Wednesday, July 01									
8:00					ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	8:00				
8:30															8:30				
9:00	OPENING SESSION				P05	P09	V05	V09	P13	P15	V15	V13	P17	T03	9:00				
9:30																		9:30	
10:00					10:15 → Opening of ASCEE 2009					Coffee Break					10:00				
10:30	Coffee Break															10:30			
11:00	PLENARY SESSION				P06	P10	V06	V10	P14	P16	V16	V14	P18	T04	11:00				
11:30																		11:30	
12:00										Coffee Break					12:00				
12:30	LUNCH				LUNCH					CLOSING CEREMONY					12:30				
13:00																			
13:30										FAREWELL LUNCH					13:30				
14:00															14:00				
14:30	Congress Exposition Visit				P07	P11	V07	V11	T01	ASCEE VISIT					14:30				
15:00	P01	P03	V01	V03	FISITA EDU CONF										15:00				
15:30															15:30				
16:00	Coffee Break																		
16:30	P02	P04	V02	V04	P08	P12	V08	V12	T02						16:30				
17:00														17:00					
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18:30	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5						18:30			
19:00															19:00				
19:30	CONGRESS RECEPTION				EAEC GALA DINNER					<b>Legend:</b> P01-P18 POWERTRAINS V01-V16 VEHICLES T01_T04 SYSTEMS					19:30				
20:00																			
20:30															20:30				
21:00															21:00				
21:30															21:30				

Wednesday, July 01				Thursday, July 02				Friday, July 03							
8:00				EAEC_COUNCIL MEETING				8:00	POST CONGRESS VISITS	POST COUNCIL VISITS					
8:30	TATRA HOTEL											8:30			
9:00								9:00							
9:30	AUTODAY2009 / TATRA			Coffee Break				9:30							
10:00							COMMITTEE_01	COMMITTEE_02			COMMITTEE_03	COMMITTEE_04	10:00		
10:30											10:30				
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13:00	LUNCH			LUNCH				13:00							
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14:30	AUTODAY2009 / TATRA / FISITA COUNCIL MEMBERS		FISITA ExBo	FISITA COUNCIL MEETING				14:30							
15:00															15:00
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18:00	TATRA HOTEL		ROOM 5					18:00							
18:30								18:30							
19:00								19:00							
19:30	DINNER_TATRA (AUTODAY, FISITA COUNCIL)			COUNCIL DINNER				19:30							
20:00												20:00			
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21:00												21:00			
21:30								21:30							

Please find all details concerning the programme and registration on the Congress website:  
<http://www.eaec2009.com>

**NAMES OF SESSIONS (EACH INCLUDED 3 LECTURES & DISCUSSIONS)**

**1<sup>st</sup> DAY**

SESSION P01	"POWERTRAIN PERFORMANCE_1"
SESSION P02	"Engine development (innovation)"
SESSION P03	"Powertrain and gears_1"
SESSION P04	"Powertrain and gears_2"
SESSION V01	"Busses & Trucks_1"
SESSION V02	"Busses & Trucks_2"
SESSION V03	"New Materials"
SESSION V04	"Environment & Vehicle Safety"

**2<sup>nd</sup> DAY**

SESSION P05	"Hybrid_1"
SESSION P06	"Hybrid_2"
SESSION P07	"Hybrid_3"
SESSION P08	"POWERTRAIN & COMBUSTION"
SESSION P09	"Engine & Fuels "
SESSION P10	"Engine & Emissions"
SESSION P11	"Gas fuels_1"
SESSION P12	"Gas fuels_2"
SESSION V05	"Busses & Trucks"
SESSION V06	"Passenger Cars"
SESSION V07	"Vehicle systems_1"
SESSION V08	"Vehicle systems_2"
SESSION V09	"Noise & Vibration _ VEHICLES"
SESSION V10	"Models & Vehicle Simulation"
SESSION V11	"Safety_1"
SESSION V12	"Safety_2"
SESSION P13	"Noise & Vibration _ Engines"
SESSION P14	"Engine & Ecology"
SESSION T01	"Production Process"
SESSION T02	"Production Technology"

**3<sup>rd</sup> DAY**

SESSION P15	"POWERTRAIN PERFORMANCE_2"
SESSION P16	"Fuels & Lubricants"
SESSION V15	"Brakes & Suspension_1"
SESSION V16	"Brakes & Suspension_2"
SESSION V13	"Recycling"
SESSION V14	"DYNAMIC SIMULATION"
SESSION P17	"Noise & Vibration"
SESSION P18	"ENGINE PARAMETERS & TRANSPORT"
SESSION T03	"Standard & Regulations"
SESSION T04	"Information & Communication Systems "

Next year there is another important automotive meeting:

# FISITA

## 2010

**World Automotive Congress**  
30 May – 4 June, Budapest, Hungary

<http://www.fisita2010.com/>

### **Automobiles and Sustainable Mobility**

The biennial FISITA Congress provides excellent opportunities for automotive experts to present the latest technologies and to exchange information in the field of automotive and related industries.

In cooperation with FISITA, GTE has embarked on a number of activities to ensure that it holds a successful conference.

The goal is to make the FISITA 2010 Congress a forum for the latest achievements of the automotive industry.

Abstracts for technical papers on any of the Congress Topics are now accepted.

The deadline for abstract submission is 30 June, 2009

To submit a paper for the congress, please register at the **Authors Area**:

<http://www.fisita2010.com/authors>

### **Important dates are:**

#### **30 June 2009**

Deadline for abstract submission

#### **30 September 2009**

Notification to author

#### **31 October 2009**

Publication of the Preliminary Programme & registration form

#### **15 March 2010**

Deadline for submission of final paper

#### **30 May - 4 June 2010**

FISITA 2010 Budapest

### **The Congress Topics are:**

**A. Environmentally friendly vehicles**

**B. Vehicle design and development**

**C. Test, simulation and calculation methods of vehicles and components**

**D. Safety on roads**

**E. Intelligent systems in road traffic**

**F. Buses, trucks and heavy vehicles**

**G. Vehicle standards, regulations, legislation**

**H. Efficient production and operation of vehicles and components**

The sub topics please find in the

**AUTHOR`S AREA**

<http://www.fisita2010.com/authors/topics>

The FISITA 2010 Congress will take place in the same area as the EAEC 2007 Congress, but with additional space for lectures and exhibition. The location is the new part of the Technical University of Budapest, near the river Danube, with excellent opportunities for Congresses.



**List of the local automotive events in Europe:**

The list of automotive events in the first half of 2009 are based on information from the national European Societies and from information of automotive organisations I received directly.

In the case there are more events in your country which are not on the list please let me know and will distribute the updated list again to all Member Societies directly or via the next Newsletter. Also congresses, conferences, workshops or symposia, which are held in the language of your country, will be announced and mentioned on the list. All European events will be put into the EAEC home page.

**Hybrid and Electric Vehicles: Advanced Powertrains**

Venue: London, United Kingdom

Organiser: AW Briefing

24 March 2009

Website: <http://www.awbriefing.com/>

**\* 2nd Congress of Manufacturing Engineering**

Venue: Barcelona, Spain

Organiser: STA

24 - 25 March 2009

Website: <http://www.stauto.org>

**\* 9. Internationales Stuttgarter Symposium 2009**

**Automobil und Motortechnik**

Venue: Stuttgart, Germany

Organiser: FKFS Forschungsinsitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart

ATZlive Kongressorganisation, Wiesbaden

24 - 25 March 2009

Website: <http://www.fkfs.de/symposium>

**\* Automotive Power Electronics**

Venue: Paris, France  
Organiser: SIA  
25 - 26 March 2009  
Website: <http://www.sia.fr/>

**VDI-Fachtagung „Elektrische Energiespeicher – Schlüsseltechnologie für energieeffiziente Anwendungen“**

(Conference Language: German / no simultaneous translation)  
Venue: 25. - 26. March 2009 Fulda, Germany  
Organiser: VDI Wissensforum  
25 - 26 March 2009  
Website: <http://www.vdi.de/elektrischespeicher>

**\* crash.tech 2009****Fahrzeugsicherheit 2020**

Venue: Leipzig / Congress Center, Germany  
Organiser: vieweg technology forum  
31 March - 01. April 2009  
Website: <http://www.atzlive.de>

**4th International Workshop - Traffic management in alpine roads and tunnels for mobility and safety: future perspectives**

Venue Susa (TO), Italy - CONSEPI Autoporto MotorOasi  
Organiser: ATA  
2 April 2009  
Website: <http://www.ata.it/en/convegni/calendario/futuri/>

**\* Powertrain and energy sources in future vehicles**

Venue: Oxford, United Kingdom  
Organiser: DRIVENet and Oxford Brookes University  
7 April 2009  
Website: <http://www.drivenet.org.uk>

**22nd JUMV International Automotive Conference**

Venue: Belgrade, Serbia  
Organiser: JUMV  
14 - 16 April 2009  
Website: <http://nmv2009.celtdevel.com>

**\*Automobiltechnisches Kolloquium“**

Venue: Munich, Germany  
Organiser: VDI-FVT  
16 - 17 April 2009  
Website: <http://www.vdi-wissensforum.de>

**9th European All-Wheel Drive Congress Graz 2009****A future with all-wheel drive? All-wheel drive with future?**

(Congress under EAEC Patronage)  
Venue: Stadthalle Graz, Graz, Austria  
Organiser: Magna Powertrain & MAGNA STEYR  
18 – 19 April 2009  
Website: <http://www.awdcongress.com>

## 2nd Workshop

### Le lavorazioni meccaniche

Venue: Torino, Italy, Torino Incontra Conference Centre

Organiser: ATA

22 April 2009

Website: <http://www.ata.it/en/convegni/calendario/futuri/>

### \* Innovative Automotive Technology – IAT'09,

Venue: Nova Gorica, Slovenia

Organiser: AMETS-AG; Faculty of Mechanical Engineering at University of Ljubljana;

Automotive Cluster of Slovenia

23 - 24 April 2009

Website: <http://www.fs.uni-lj.si/lavk>

## 2nd International Conference/Car Design – Towards higher challenges

Venue: Torino, Italy, Torino Incontra Conference Centre

Organiser: ATA

4-5 May 2009

Website: <http://www.ata.it/en/convegni/calendario/futuri/>

### \* AMAA 2009

Venue: Berlin, Germany

Organiser:

5 - 6 May 2009

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

## 30th International Vienna Motor Symposium

Venue: Vienna, Hofburg, Austria

Organiser: ÖVK

7 – 8 May 2009

Website: <http://www.oevk.at/>

## Barcelona International Motor Show

Venue: Barcelona, Spain

Organiser: Fira de Barcelona

9 - 17 May, 2009

Website: [http://www.barcelona.com/barcelona\\_trade\\_show/barcelona\\_motor\\_show](http://www.barcelona.com/barcelona_trade_show/barcelona_motor_show)

Within the framework of the the **Barcelona Motor Show** there two additional events:

### Barcelona Brokerage Event

This new event is organized by STA. It is product of the collaboration between STA and the Barcelona representatives of the Enterprise Europe Network. You can find your country representatives in

[http://www.enterprise-europe-network.ec.europa.eu/network\\_en.htm](http://www.enterprise-europe-network.ec.europa.eu/network_en.htm)

It is an event that offers the possibility of meeting other enterprises or universities that offer/search the technology or know-how that we search/offer, regarding automotive technologies

### SIAB AWARDS 2009

Barcelona International Motor Show (SIAB), together with Sociedad de Técnicos de Automoción (STA), announce the

7th EDITION BARCELONA INTERNATIONAL MOTOR SHOW AWARDS FOR THE BEST TECHNOLOGICAL DEVELOPMENTS IN THE AUTOMOTIVE INDUSTRY.



The purpose of the **7th Barcelona International Motor Show Awards** is to reward and increase awareness of the innovative work carried out by companies and institutions in the automotive industry.

Three categories are established: Complete vehicle systems and components; Technologies, processes and materials. The period for submitting documents for this edition of the awards will end on 31 March 2009.

For further information or details, please contact <http://siab.stauto.org/concursos/list/> or [awards2009@stauto.org](mailto:awards2009@stauto.org)

### **Injection Systems for IC Engineers: Combustion Engine & Fuels Group Conference**

London, United Kingdom

Organiser: IMechE

13 - 14 May 2009

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

### **Low-Carbon Vehicles 2009**

Venue: London, United Kingdom

Organiser: IMechE

20 - 21 May 2009

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

### **Commercial Vehicles 2009**

Venue: Neu-Ulm, Germany

Organiser: VDI-FVT

27 - 28 May 2009

Website: <http://www.vdi-wissensforum.de>

### **\* Advanced Transmissions for Low CO<sub>2</sub> Vehicles**

Venue: Rueil Malmaison, France

Organiser: SIA

4 June 2009

Website: <http://www.sia.fr>

### **ESV 2009**

Venue Stuttgart, Germany

Organiser: Federal Highway Research Institute (BASt), Germany

5 - 18 June 2009

Website: <http://www.esv2009.com/>

### **Braking 2009**

Venue: York, United Kingdom

Organiser: IMechE

9 - 10 June 2009

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

### **3rd International Conference/Hybrid, electric and fuel-cell propulsion systems**

Venue: Torino, Italy, Torino Incontra Conference Centre

Organiser: ATA

17 June 2009

Website: <http://www.ata.it>

### **\* 6. Magdeburger Symposium - Motor- und Aggregate-Akustik**

#### **ATZ / MTZ Konferenz - Akustik 2009**

Venue: Magdeburg, Germany

Organiser:

23 - 24 June 2009 / Magdeburg

Website: <http://atzlive.de>

### 7th European Mechatronics Meeting - Mechantronics for Vehicles and Production

Venue: Paris, France

Organiser:

24 - 25 June 2009

Website: <http://www.rosam.org/emm-fr9.html>

### EAEC 2009

Venue: Bratislava, Slovak Republic

Organiser: SAITS

29 June - 1 July 2009

Website: <http://www.eaec2009.com>

### \* Transmissions in Vehicles 2009

Venue: Friedrichshafen, Germany

Organiser: VDI-FVT

30 June - 1 July 2009

Website: <http://www.vdi-wissensforum.de/index.php?id=669>

During the late 18th century several engineers considered constructing mechanically propelled carriages. In the Newsletter Issue 1, February 2009, I informed you that The Frenchman, Cugnot, had built a tractor for towing guns. But this tractor was slow moving and was not built to carry passengers.

The reason to build a self-propelled vehicle in Britain was to avoid the need for horses requiring a lot of arable land which could be better used to feed Britain's rapidly expanding population. James Watt, the leading manufacturer of industrial steam engines even went so far as to take out a patent on a carriage propelled by a steam engine. In the event he did not pursue the idea because he realised that the condensing engines of the time produced too little power relative to their weight to be of practical use on the road.



Watt's rival, Richard Trevithick (1771 –1833) was a British inventor and mining engineer and was promoting the use of the new “high pressure” steam engines which some, including Watt, considered to be dangerous and he Trevithick developed these to a stage where they had become lighter and more efficient than Watt's engines.

Richard Trevithick was born in the rich mineral mining areas of Cornwall. His first job, at the age of 19, was in a mine. He was very enthusiastic and quickly gained the status of a consultant, unusual for a person at such a young age. He worked on building and modifying steam engines to avoid the royalties due to Watt on the separate condenser patent. However, Trevithick was the first to make high pressure steam work, in 1799. It would allow the use of a smaller cylinder, thus saving space and weight. He reasoned that his engine could now be more compact, lighter and small enough to carry its own weight even with a carriage attached.

When Watt's patent ran out Trevithick built a prototype of full-size steam road locomotive at Camborne, Cornwall and in 1801, he ran this for several hundred yards up a hill with several people hanging on to it. He named the carriage “Puffing Devil” and, on Christmas Eve that year, he demonstrated it by successfully carrying several men on it. Unfortunately, while they were in a pub celebrating the event, it set fire to the shed it was in and destroyed itself. This event is widely recognised as the first demonstration of transportation powered by steam, and it later inspired the popular Cornish folk song “Camborne Hill”. The “Puffing Devil” was unable to maintain sufficient steam pressure for long periods, so in fact would have been of little practical use.

Undaunted, the following year Trevithick took out a patent for a passenger carrying steam road carriage, also describing other uses for his new high pressure engines

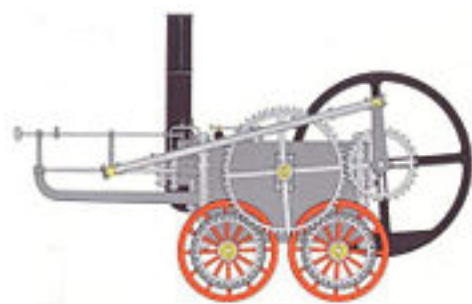


On completion, the “*London Steam Carriage*” was driven about ten miles through the streets of London to Paddington and back through Islington with seven or eight guest passengers, the streets having been closed to other vehicles. This was the first trip of a self-powered passenger carrying vehicle in the world.

Ultimately the project to build a steam powered passenger carrying vehicle was not a success. It was too expensive and it needed two men and a bag of coal to do what a horse drawn vehicle could do with one man and a bag of hay.

Replica of the 1803 Trevithick London Steam Carriage

In 1802 Trevithick built one of his high pressure steam engines to drive an automatic hammer. He mounted this engine on an undercarriage, turned it into a locomotive, and sold this patent.



Line drawing of the first locomotive.

This design from Trevithick was 1804 the first working rail steam locomotive. Later he built some other locomotives but he was not really successful.

As multi-talented engineer, he went on to research other projects to exploit his high pressure steam engines: boring brass for cannon manufacture, stone crushing, rolling mills, forge hammers, blast furnace blowers as well as the traditional mining applications. He also built a barge powered by paddle wheels and several dredgers.

In 1807 Trevithick began drilling a small tunnel under the River Thames. He was head of the tunnel project. At the beginning it was successful but the tunnel was flooded and Trevithick, being the last to leave the tunnel, was nearly drowned. By the way the first successful tunnel under the River Thames was started in 1823 and was finished 1843.

In 1809, Trevithick worked on various ideas on improvements for ships: iron floating docks, iron ships, telescopic iron masts, improved ship structures, iron buoys and using heat from the ships' boilers for cooking.

In 1811, draining water from the rich silver mines in Peru at an altitude of 4267 m posed serious problems, as the low pressure condensing engines by Boulton and Watt developed so little power as to be useless at this altitude, and they could not be dismantled into sufficiently small pieces to be transported there along mule tracks. Trevithick's high pressure steam engines worked quite satisfactorily. In 1816 he travelled to Peru, built light weight high pressure steam engines and even bought mining rights. But in the disturbances of the civil war, he lost all his properties, had to take flight and returned completely penniless to England.

After he had been working in Dartford, Trevithick was taken ill with pneumonia and had to retire to bed in a hotel, where he was lodging at the time. Following a week's confinement in bed he died unnoticed on the morning of 22 April 1833. No friends or relatives had attended his bedside during his illness. His colleagues at Hall's works made a collection for his funeral expenses and acted as bearers.

Trevithick was buried in an unnamed grave in St Edmunds Burial Ground, East Hill, Dartford. The burial ground closed in 1857, with the gravestones being removed in the 1960s. He shared his destiny with many other great engineers and inventors that the following ensuing ages appreciated his attainments.

## EAEC Member Societies

(In alphabetic order of the countries)

### **Austria**

Austrian Society of Automotive Engineers

#### **OEVK**

Tel.: +43 1 585 27 41-0

E-mail: [info@oevk.at](mailto:info@oevk.at)

<http://www.oevk.at>



### **Belarus**

Academic Automotive Association

#### **AAA**

Tel.: +375 172 92 1562

E-mail: [vgorbash@bntu.by](mailto: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](mailto: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](mailto:barzev@ru.acad.bg)

<http://www.ru.acad.bg/>



### **Croatia**

Croatian Society for Engines and Vehicles

#### **CroSEV**

Tel.: +86 10 633 45 599

E-mail: [medica@ru.rith.hr](mailto:medica@ru.rith.hr)



### **Czech Republic**

Česká Automobilová Společnost

#### **CAS**

Tel.: +420 224 352 498

E-mail: [cas-sae@email.cz](mailto:cas-sae@email.cz)

<http://www.cas-sae.cz/>



### **Finland**

Suomen Autiknillinen Litto r.y.

#### **SATL**

Tel.: +420 224 352 498

E-mail: [satl@satl.fi](mailto:satl@satl.fi)

<http://www.satl.fi/>



### **France**

Société des Ingénieurs de l'Automobile

#### **SATL**

Tel.: +33(0)1 41 44 93 73

E-mail: [info@siafr](mailto:info@siafr)

<http://www.sia.fr/>



### **Germany**

VDI-Gesellschaft Fahrzeug-und Verkehrstechnik

#### **VDI-FVT**

Tel.: +49 211 6214 223

E-mail: [fvt@vdi.de](mailto: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](mailto:mail.gte@mtesz.hu)

<http://www.gte.mtesz.hu/>



### **Italy**

Gepipari Tudomanyos Egyesulet

Associazione Tecnica dell'Automobile

#### **ATA**

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<http://www.ata.it>



### **Latvia**

Latvia Association of Automotive Engineers

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<http://www.laia.lv/>



### **Lithuania**

Lithuanian Society of Automotive Engineers

#### **LAIS**

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### **Poland**

Towarzystwo Inzynierow

I Techniow Mechanikow Polskich

#### **SIMP**

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<http://www.ptim.simp.pl/ptim/>



### **Romania**

Societatea Ingeerilor de Automobil din Romania

#### **SIAR**

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<http://www.siar.ro>



**Russia**

Association of Automotive Engineers - Russia



**AAE**

Tel.: +7 495 994 9915  
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<http://www.autoengineer.org/>

**Serbia**

Jugoslovensko Društvo za motore i vozila

**JUMV**

Tel.: +381 11 3370 358  
E-mail: [dalek@jumv.org.yu](mailto:dalek@jumv.org.yu)  
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