



# EAEC

Issue 3 • April 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,

In the third EAEC Newsletter, I start with new services for the European Member Societies and for their members:

In the first two EAEC Newsletters, I announced automotive events in Europe. It is not possible that all these interesting events can be visited by all experts who might be interested in the contents of the meetings. Therefore I am introducing a new column: *"Post Congress Information"*.

Here you can obtain information about the meetings after they happened, e.g., about the number of participants, about the contents and how the proceedings are available.

The *"Historic Corner"* informs about the development of steam-powered vehicles in Victorian times. In the first two issues, there was a short outline about the two first pioneers with such types of vehicles: Cugnot and Trevithick.

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.

I ask you again 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 in the next issue.

May I draw your attention to the main Congresses in the FISITA and EAEC community:

**12<sup>th</sup> European Automotive Congress: EAEC 2009, Bratislava, Slovak Republic  
29 June to 1 July 2009**

**FISITA 2010 Congress; Budapest, Hungary, 30 May to 4 June 2010**

In this Newsletter, please find more information about these two events.

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



## 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 the field of the automotive and related industries.

The 12<sup>th</sup> EAEC European Automotive Congress Bratislava will take place at Crown 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. The departures of the buses are every hour and it take one hour to the centre of Bratislava.

There are also train connections from Vienna available. It takes about one hour to one of the two railway stations in Bratislava.

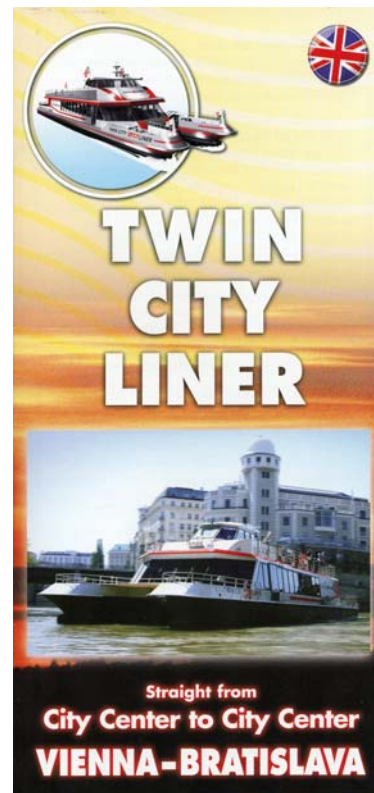
A very romantic way to get to Bratislava is by boat. Vienna and Bratislava are worldwide the capitals with the shortest distance of 60 km. That is the reason that they are called “Twin Cities”, therefore the boat connection took has this name:



**MAIN SEASON**  
Daily from 01.05. to 27.09.2009:

Vienna (departure)	08:30	09:00	12:30	16:30	19:00*
Bratislava (arrival)	09:45	10:15	13:45	17:45	20:15
Bratislava (departure)	10:30	14:30	17:00	18:30	22:30*
Vienna (arrival)	12:00	16:00	18:30	20:00	00:00

\* These trips are available in the period from 01.05. to 27.09.09 only on Thu., Fri., Sat., Sun. and holidays.



The boat trip takes 75 Minutes from the centre of to a location near the centre of Bratislava.

Vienna

**CONGRESS PROGRAMME**

	Monday, June 29					Tuesday, June 30					Wednesday, July 01					
	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	
8:00																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	Coffee Break					10:15 → Opening of ASCEE 2009					Coffee Break					10:00
10:30	Coffee Break					10:15 → Opening of ASCEE 2009					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					Coffee Break					Coffee Break					12:00
12:30	LUNCH					LUNCH					CLOSING CEREMONY					12:30
13:00											13:00					
13:30	Congress Exposition Visit					LUNCH					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	Coffee Break										15:00
15:30	Coffee Break					Coffee Break										15:30
16:00	Coffee Break					Coffee Break										16:00
16:30	Coffee Break					Coffee Break					16:30					
17:00	P02	P04	V02	V04	FISITA EDU CONF	P08	P12	V08	V12	T02	ASCEE VISIT					17:00
17:30	Coffee Break					Coffee Break										17:30
18:00	Coffee Break					Coffee Break										18:00
18:30	Coffee Break					Coffee Break										18:30
19:00	ROOM 1 ROOM 2 ROOM 3 ROOM 4 ROOM 5					ROOM 1 ROOM 2 ROOM 3 ROOM 4 ROOM 5					ROOM 1 ROOM 2 ROOM 3 ROOM 4 ROOM 5					19:00
19:30	CONGRESS RECEPTION					EAEC GALA DINNER					Legend: P01-P18 POWERTRAINS V01-V16 VEHICLES T01 T04 SYSTEMS					19:30
20:00																20:00
20:30	CONGRESS RECEPTION					EAEC GALA DINNER					Legend: P01-P18 POWERTRAINS V01-V16 VEHICLES T01 T04 SYSTEMS					20:30
21:00																21:00
21:30	21:30					21:30					21:30					21:30

Wednesday, July 01		Thursday, July 02	
08:00			08:00
08:30		EAEC_COUNCIL MEETING	08:30
09:00			09:00
09:30	AUTODAY2009 / TATRA		09:30
10:00			Coffee Break
10:30		COMMITTEE_01	10:30
11:00		COMMITTEE_02	11:00
11:30		COMMITTEE_03	11:30
12:00		COMMITTEE_04	12:00
12:30			12:30
13:00			13:00
13:30	LUNCH	LUNCH	13:30
14:00			14:00
14:30	AUTODAY2009 / TATRA / + COUNCIL MEMBER	FISITA COUNCIL MEETING	14:30
15:00			15:00
15:30			15:30
16:00			16:00
16:30			16:30
17:00			17:00
17:30			17:30
18:00			18:00
18:30			18:30
19:00		COUNCIL DINNER	19:00
19:30	DINNER_TATRA (AUTODAY, FISITA COUNCIL)		19:30
20:00			20:00
20:30			20:30
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:

<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.

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

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

The deadline for abstract submission is 15 July, 2009

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

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



The image shows a promotional banner for the FISITA 2010 World Automotive Congress. At the top left is the GTE logo (GTE Group of Technical Enterprises) and at the top right is the FISITA logo (International Federation of Automotive Technicians and Engineers). The main text reads "Automobiles and Sustainable Mobility" followed by "FISITA 2010" in large, bold letters. Below that, it says "World Automotive Congress" and "30 May - 4 June, Budapest, Hungary". The bottom half of the banner features a photograph of a city street at night with light trails from cars, and the website address "www.fisita2010.com" is displayed in a red box at the bottom.

**First Announcement & Call for Papers**

[www.fisita2010.com](http://www.fisita2010.com)

## Important dates are:

**15 July 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 in the first halve of 2009:**

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.

#### **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>



**Braking 2009**

Venue: York, United Kingdom  
Organiser: IMechE  
9 - 10 June 2009  
Website: <http://www.imeche.org>

**ESV 2009**

Venue Stuttgart, Germany  
Organiser: Federal Highway Research Institute (BASt), Germany  
15 - 18 June 2009  
Website: <http://www.esv2009.com/>

**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**

Venue: Magdeburg, Germany  
Organiser:  
23 - 24 June 2009 / Magdeburg  
Website: <http://atzlive.de>

**7th European Mechatronics Meeting - Mechatronics 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>

## Post Congress Information



**International Advanced Mobility Forum**  
10-12 March 2009, during the Geneva International Motor Show

The IAMF 2009 gathered almost 200 participants from all over the world. The topics discussed were:

1. Fuel strategies for future transport needs
2. Biofuels, natural gas, CTL, GTL - new sources for fuels
3. Advanced internal combustion engines
4. Auxiliary systems for improved efficiency
5. Electricity for transportation
6. New Powertrain concepts
7. Concepts of multi-modal mobility and implementation experiences
8. Options for future cargo transport
9. Risks on fuels and other energy carriers for the mobility

The best summary of our event is the two last newsletters here attached highlighting some particular presentations given at IAMF 2009.

I also join IAMF 2009 detailed programme and its addendum. In this catalogue, you will then be able to find the abstracts of almost all the presentations given at IAMF 09. Please let me know if you wish to receive the physic version of our catalogue by post as well.

To find pictures of our events and further details, please consult [www.iamf.ch](http://www.iamf.ch).

Magali Fakhry  
Exhibition Manager

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## VDI-Fachtagung "Elektrische Energiespeicher – Schlüsseltechnologie für energieeffiziente Anwendungen"

At the conference "Elektrische Energiespeicher" organised by VDI Wissensforum in Fulda, Germany on March 24-24, 2009 more than 100 experts from automotive and power industry discussed requirements and strategies of future battery technologies and other power storage devices.



The program covered the entire range of modern power storage systems such as super-caps, Ni-metal-hybrid batteries and lithium-ion batteries as well as redox-flow-batteries fly wheel and compressed air storage. Bridging the applications of both mobile and stationary power storage systems, requirements for traction batteries, electro mobility, electric power grid regulation and the integration of regenerative and fluctuating power generation were discussed.

For your further information as well as you the conference proceedings (VDI-Bericht) to the address below:

Dr.-Ing. Claudia Dössereck  
Produktmanagerin, Abt. PE 3

Telefon: +49 (0) 211 62 14-4 48  
Telefax +49 (0) 211 62 14-1 29  
E-Mail: doessereck@vdi.de

VDI Wissensforum GmbH  
VDI-Platz 1  
40468 Düsseldorf / Germany

### 9<sup>th</sup> International Automobile Recycling Congress 11 – 13 March 2009, Munich, Germany



Not even the actual economic crisis could not change the good spirit of the **160 participants** at the **9<sup>th</sup> International Automobile Recycling Congress**, which took place in Munich. The participants could profit from the interesting and informative presentations as well as network in the exhibition hall during the breaks, the cocktail receptions and of course at the networking dinner. We regret that you could not attend!

We sent you today by post the proceedings and the photos of the 9<sup>th</sup> International Automobile Recycling Congress. Unfortunately we had no photographer this time, so not all photos are in a good quality J!

On the proceedings all presentations of the speakers, the sponsors and the exhibitors can be found.

For further information and for purchasing of the proceedings please contact:

Susann Schmid  
Congress Assistant

ICM AG  
Schwaderhof 7  
5708 Birrwil, Switzerland  
Phone: +41 62 785 10 00  
Fax: +41 62 785 10 05  
[www.icm.ch](http://www.icm.ch)

In the first two EAEC Newsletters, the very first developments of vehicles powered by a steam engine for use on land and independent of rails were presented. The vehicles of Cugnot and Trevithick were experimental vehicles and were not commercially used. After Richard Trevithick, the use of high-pressure steam engines developed and the mobile steam engines became a practical proposition.

In this issue another widely forgotten important engineer is mentioned. **Sir Goldsworthy Gurney** (1793-1875) was a surgeon, chemist, lecturer, consultant, architect, builder and prototypical British gentleman scientist and inventor in the Victorian period. Gurney was born in the village of Treator near Padstow, Cornwall in 1793. His unusual Christian name was taken from his godmother who was a Maid of Honour to Queen Charlotte.



The Gurney family was long-established, and could trace its lineage back to the Counts de Gourney, who arrived in Britain with William the Conqueror. Gurney's family was wealthy and allowed his father, and to an extent him, to live as gentlemen. In Cambourne whilst on holiday he was most impressed and fortunate to see Richard Trevethick's early experiments with steam engines mounted on wheels driving vehicles.

After his medical education and marriage, in 1814 he settled in Wadebridge Cornwall practising as a surgeon, but also became interested in chemistry and mechanical science.

He moved with his family to London in 1820 and there expanded his scientific knowledge and started giving a series of lectures on the elements of chemical science to the Surrey Institution.

Gurney was one of the first, if not the first person to give serious thought to the construction of a vehicle propelled by steam to provide travel on the common roads. He soon started work on his steam carriage and in 1825 took out a patent to register his progress with the carriage project.

His first steam-powered vehicle did not work very well and he designed 1826 a new prototype and tested it successfully on a test run of 85 miles from London to Melksham in ten hours. Goldsworthy Gurney's steam carriage is described in his Patent No. 5554 of 1827. It was that time period when steam power was just becoming the means of providing the motive force to propel carriages carrying passengers on the common roads.

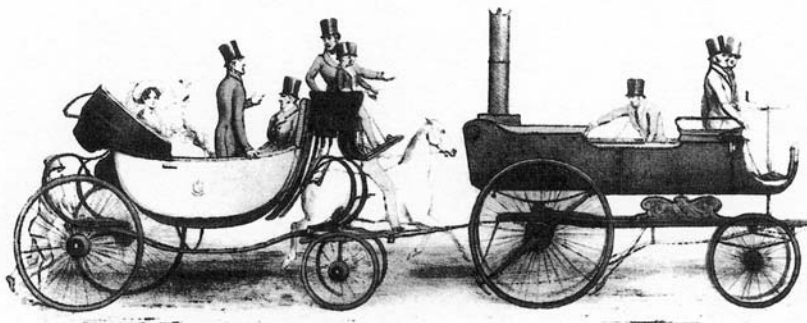
He describes his Patent 5554 as a "*Steam Coach or Carriage*" adapted to convey passengers and baggage and to be propelled forward on common roads by the power of the locomotive steam engine instead of horses.

The external appearance of the steam coach resembles that of common stage coaches, but without the horses. It is mounted upon four wheels which sustain the weight, and two small wheels called the pilot wheels are added to the front end in place of the wheel horses. By these pilot wheels the coachman guided the coach in its progress along the road. The coach is advanced forward along the road by mechanical power exerted by high-pressure steam, which is generated in a boiler situated at the back part of the body of the coach.



Gurney also thought about the cost effectiveness of steam powered vehicles in competition with horse-drawn vehicles. He found out that under a speed of four miles per hour (6.5 km/h), the costs for horses are lower. He also worked out principal concepts for a regular traffic system with steam powered vehicles. Depots for coal and water have to be erected in certain distances on the route.

At about the same time, the railway was introduced and from the very beginning of this development the locomotive and the trailers were separated units. This design principal was now also used by Gurney for a steam powered road vehicle.



The disadvantage for such a road vehicle was the length of this combination, especially when driving through narrow villages. On the other hand, more fuel and water could be carried.

In the year 1829, he designed contrary to the six-wheel vehicle of 1825, a low weight tractive unit drawing a four-wheel trailer.

The first presentation was also visited by George Stephenson, inventor of the railway and the hero of Waterloo, the Duke of Wellington.

With this design, a regular public traffic service between Cheltenham and Gloucester was introduced.



Goldsworthy Gurney was also active in other fields of interest:

From 1825 till 1862, he applied for 11 patents, like music instruments, locomotive engines, apparatus for producing, regulating and dispersing light and heat. The most well known invention was the “*Gurney Stove*“, which in some examples are still in use.

It was a new type of warm air stove which he patented in 1856. The patent was titled “*Certain Improvements in Warming and Moistening Air*”. It was described as an apparatus constructed to apply the laws of conduction and convection of heat for the purposes of warming and moistening air. The apparatus was a metallic vessel having a number of plates extending from its outer surface, standing with the plates vertical in a shallow trough of water. Examples of a Gurney Stove still in excellent working condition can be seen in the Cathedral Churches of Hereford, Chester and Ely and also in Tewkesbury Abbey.



He extended the use of the steam-jet to the cleaning of sewers, bridging his mechanical and medical knowledge in the service of the eradication of cholera in the metropolis. Using a mixture of nitrogen and carbon dioxide into the mine by means of his steam jet, he extinguished the combustion in a mine.

As a result of his successes with mine ventilation, he was commissioned in 1852 to improve the gas lighting, heating and especially the ventilation systems for the new Houses of Parliament at Westminster. Although he had some success in moving air around the palace buildings, ridding the legislature of the foul smell of the Thames was beyond his skill!

In 1863, Gurney was knighted by Queen Victoria and later died in 1875. He is buried at Launcells near Stratton.

Although Sir Goldsworthy Gurney did not receive the full recognition he deserved during his lifetime, his career has been undergoing a re-appraisal, and he is now regarded as one of the leading scientific minds of his age, and one might say not before time.

## EAEC Member Societies

(In alphabetic order of the countries)

### Austria

Austrian Society of Automotive Engineers

#### OEVK

President: Prof. Hans Peter Lenz

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

President:

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

President:

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

President:

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

President:

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

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



### Germany

VDI-Gesellschaft Fahrzeug-und Verkehrstechnik

#### VDI-FVT

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