



The Spanish Society of Automotive Engineers (STA)  
and The Plastics Technical Section of STA  
Organize  
**The 3rd R&D Conference**



# *Efficient Lightweight Structure Solutions*

January 31, 2012  
Saló Daurat - Casa Llotja de Mar  
(Barcelona)



## **Spanish Society of Automotive Engineers (STA)**

From the moment of its foundation, in 1947, the STA, Sociedad de Técnicos de Automoción, has had a clear mission: to stimulate the progress of the automobile, managing to satisfy the needs of society and promoting technological advances in the automotive industry.

To this end, STA brings together all those individuals, companies and institutions related to the automotive industry. The organization's goal is to strengthen their position as the neutral meeting platform for automotive technicians and engineers in order to promote the exchange of experiences and new initiatives.

## **An international organization**

The STA is a founding member of EAEC (European Automobile Engineers Cooperation) and FISITA (Fédération Internationale des Sociétés d'Ingénieurs des Techniques de l'Automobile), being the only official representative of the latter in Spain.

Currently, FISITA brings together 38 societies based in 37 countries around the world, grouping more than 163,000 professionals.

With industry professionals, and for industry professionals

Headquartered in Barcelona, the STA is organized into Regional Commissions and Technical Sections.

STA's Regional Commissions are responsible for promoting and disseminating the work of STA throughout the Spanish Autonomous Communities. Thus, the Association serves automotive professionals clearly and directly across the state.

In turn, the Technical Sections group partners with common interests, aiming to evaluate and investigate the evolution of technologies applied to the automobile while also encouraging training and formation activities. Currently, the STA has 20 Technical Sections dealing with aspects such as engines, electronics, competition, electric vehicles, vehicle dynamics, safety laws and regulations, among others.

## **Bringing the car closer to their associates**

In order to bring the automobile world to their member associates and to promote the development and growth of this industry, STA organizes activities such as conferences, meetings, specialized training courses or case studies. Every other year, STA also hosts, jointly with the Barcelona International Motor Show, the Awards to the best innovations in the automotive trade.

Furthermore, in order to bring associates closer to the more competitive and academic side of the automobile industry, STA organizes every year Formula Student Spain, in the incomparable setting of Circuit de Catalunya.

The Association also has at their members' disposal services such as technical advice, job bank, custom-made training as well as an extensive document resource center.

## **Join us**

Joining STA is the best way to be constantly informed about all aspects of the new developments in the exciting world of the automobile.

Besides all the services mentioned above, as a member of STA you will have access to the STA Journal and to numerous international technical publications, to discounts on activities and publications by FISITA and STA and, most importantly, you will have a permanent and direct connection to the automotive world and to those individuals who contribute to the evolution of the automobile.

**FURTHER INFORMATION**  
**[www.stauto.org](http://www.stauto.org)**





PROGRAMME

New and lighter materials are becoming a matter of great importance since the automotive industry needs to respond to society requests on green mobility.

In order to achieve this goal, engineers are developing and implementing new solutions, materials and technologies, to lighten vehicles, keeping up security requirements.

The conference aim is to talk about Green Cars, but green car is not only the Electric Vehicle but also an optimized internal combustion engine vehicle, with a low level of polluting emissions and CO2. Under this point of view, new technologies and materials are a key factor to have **efficient lightweight structure solutions**, contributing to have an improved electric vehicle and a greener internal combustion engine vehicle.

Conference Opening

- 09:30h Ram3n Paredes - Automotive Working Group President - Cambra Oficial de Comerç, Ind3stria i Navegaci3 de Barcelona / Vice President of Governmental and Institutional Relations - SEAT
- Tomàs Megia - Head of Industry Strategy - Business Development Area - ACCI3
- Ludwig Vollrath - President - European Automotive Engineering Cooperation (EAEC)
- Rafael Boronat - President - Sociedad de T3cnicos de Automoci3n (STA)

Block 1 • Product Design & Advanced Materials

- 10:00h Lightweight design. A key to more efficiency
- Tino Fuhrman - Electromobility and Innovation Manager - SEAT
- 10:30h Lightweight in electronic components
- Vicenç Aguilera - General Manager Business Development - FICOSA INTERNATIONAL
- 11:00h Coffee Break
- 11:30h Weight reduction through reinforced polymers
- Jordi Romero - Senior Manager Materials & Processes - ASCAMM
- 12:00h Body structure: last generation steels
- Francisco Galán - Body Development Manager - SEAT
- 12:30h Advanced high strength steels for the automotive industry
- Peter Alm - Manager Forming Technology - SSAB
- José Saavedra - Area Technical Manager for Iberian Peninsula - SSAB

13:15h Lunch

Block 2 • Processes & Technologies

- 15:15h Establishing a carbon fiber material database for crashworthiness structural development
- Pablo Cruz - Senior Project Manager - The Body & Passive Safety - APPLUS+ IDIADA Group
- 15:45h Automation of manufacturing processes of CFRP parts
- Hilmar Apmann - Concept & Technology Development of Production Systems - PREMIUM AEROTEC
- 16:15h Manufacturing engineering for composites, sandwiches and other mobility weight reduction strategies
- Felip Fenollosa - Corporate Manager - FUNDACI3 CIM
- 16:45h Coffee Break
- 17:15h Advanced joining technologies for multimaterial solutions
- Humbert Vidal - Manager Europe Body Sealing and Coating- HENKEL ADHESIVES
- 17:45h In die tailored material properties with a high performance. Press hardening lines
- Ignacio Mart3n - Press Hardening Program / Processes Manager - GESTAMP
- 18:15h Lightweight design of structural components resistant to dynamic loading
- Daniel Casellas - Manager Area Technology Materials - CTM Centre Tecnol3gic

18:45h Final plenary debate

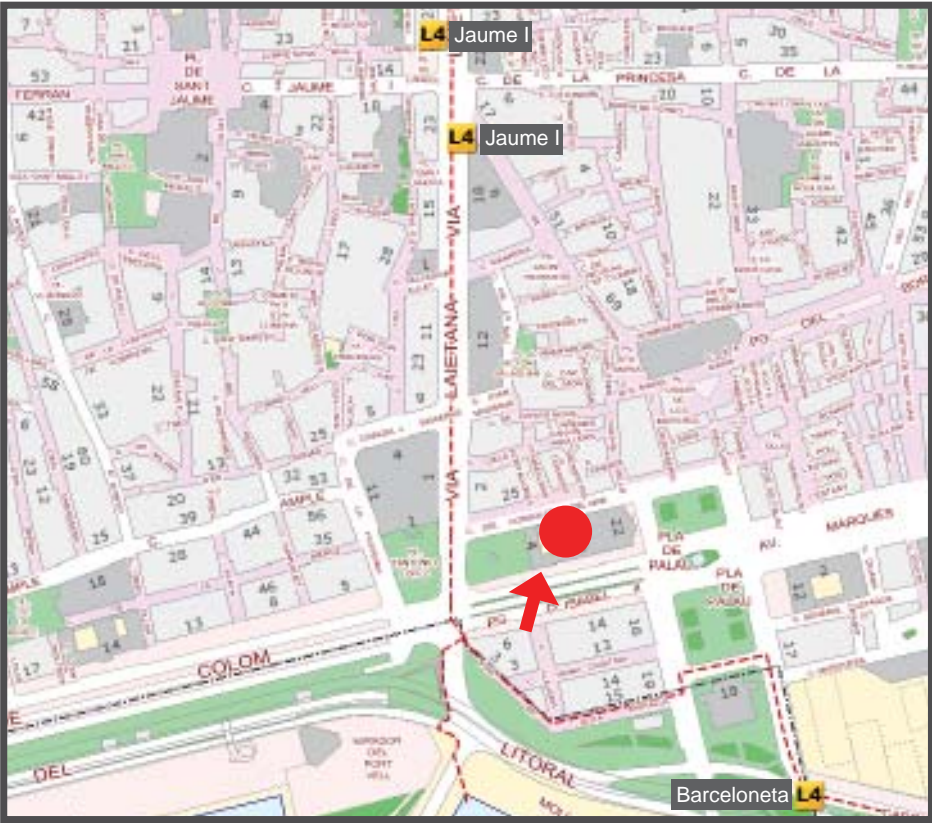
In collaboration with:



With the participation of:



Conference Venue:



REGISTRATION: [Http://links.stauto.org/conference\\_R&D](http://links.stauto.org/conference_R&D)

Registration Fees:

STA Members:	140,00 EUR+18% IVA
Non STA Members:	210,00 EUR+18% IVA
STA Members (Student - Retired Person):	30,00 EUR+18% IVA