French User Conference

- dSPACE users from France came together

- 5 years of dSPACE presence celebrated

- Innovative customer projects using dSPACE products

The User Conference in France was held on October 12, 2006 under the theme "Les Rencontres Electronique et Automatique 2006" (Electronics and Automation Meetings 2006). More than 100 participants met at the Sofitel Hotel at Porte de Sèvres in Paris and presented their projects. The day was also the occasion to celebrate 5 years of dSPACE in France.

Attendees from Automotive and Aeronautical Industries, and Universities

More than 100 participants from 40 different companies came to attend this day of exchanges and meetings on electronic control system development.

Large companies in the French automotive and aeronautical industries were represented, as well as universities involved in the research and the development of embedded electronics. Users from Renault, PSA Peugeot Citroën, VALEO, VOLVO 3P, EADS ASTRIUM, Thalès, Siemens VDO Automotive, Delphi Diesel Systems, Hispano-Suiza, SUPELEC, Polytech' Nantes, Liebherr Aerospace, ESTACA, Messier-Dowty, etc., attended the conference.

▼ *Dr. Salah Aksas welcoming the attendees in the presentation hall.*

▲ *More than 100 participants listened to the presentations.*

Welcome and Agenda

Dr. Salah Aksas, Director of dSPACE Sarl, welcomed the attendees and gave an overview of dSPACE's activities in France during its five years. Dr. Herbert Hanselmann, President

▶ *Dr. Herbert Hanselmann gave insights into dSPACE's development work and the current product portfolio.*

of dSPACE GmbH, explained the current product portfolio and presented important applications developed with dSPACE products. He pointed out that OEMs and suppliers are heavily investing in hardware-in-the-loop (HIL) simulation because of the huge benefits it brings.

> *"dSPACE won't let you down when problems arise. They really help you."*
> **Customer on his experience with dSPACE**

For example, Audi has shown improvements in warranty cost by more than a factor of two in just a few years, and this can largely be credited to rigorous HIL testing. Increasingly, large simulators for complete vehicles are used to cope with the complexity of multiple CAN, LIN and FlexRay networks in a modern car. DaimlerChrysler is using such systems intensively and has achieved excellent software quality in recent product launches.

Overview of Presentations

"Fullpass prototyping for engine controls": Natalia Lestrée, PSA Peugeot Citroën, explained their mission to rely on a

◀ *At the rally slot, racing customers faced the challenge of controlling cars that could reach 60 km/h.*

turn-key RCP solution to validate new innovative engine control concepts on a real engine test bench.
"Development of complete applications with TargetLink": Denis Eperonnier, Valeo Thermique Habitacle, generated all the fixed-point application code for a climate control with TargetLink. "Use of dSPACE

"TargetLink code is 30% to 40% more efficient for some models than code generated with other production code generators on the market."
User statement during TargetLink presentation

facilities to descend and ascend the V-cycle with regard to StARS alternator-starters": Sébastien Roue, Valeo Systèmes Electriques, implemented a well thought-through test concept based on AutomationDesk. The team appreciated the fact that dSPACE solutions could easily be extended to meet new requirements. "HIL bench for Volvo 3P Light Duty": Nicolas Bellot,

"dSPACE's test automation solutions are superior to other products on the market."
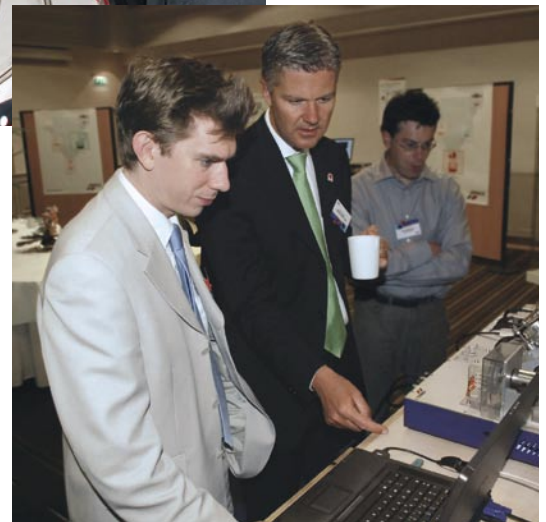**User talking about dSPACE tools**

Volvo 3P; Damien Brunel, Sherpa Engineering, described how the engine and ABS ECUs were tested together with a dSPACE Simulator. Thus the behavior of one ECU could be checked when a failure is inserted on a sensor of the other.
"Calibration of transmission automated with dSPACE Calibration System/CalDesk": Laurent Chapus, Segula,

explained how CalDesk meets all the requirements of calibration projects on production transmission ECUs. They will now use CalDesk for new calibration projects with OEMs. The quotations highlighted in this article contain some of the core statements made in the presentations. Product Managers from dSPACE and members of the dSPACE France team presented new product features and described the trends in the areas of FlexRay and AUTOSAR. An evening program rounded the day off with good entertainment, lots of conversations, and much fun.

▲ *Hands-on during the breaks – everybody could immediately try out the products.*

Merci!
The entire dSPACE team would like to thank you for participating in the Rencontres Electronique et Automatique 2006. We hope you learned more about tools and solutions, and had the chance to get new ideas for the development of your embedded applications. We particularly thank those who agreed to present their applications, which made the day so successful and pleasant. We are happy to be able to accompany you in your projects.

For more details on the presentations, please visit *www.dspace.fr/goto?REA06*