

Special Edition TRANSPORT



New Energy
for Cars
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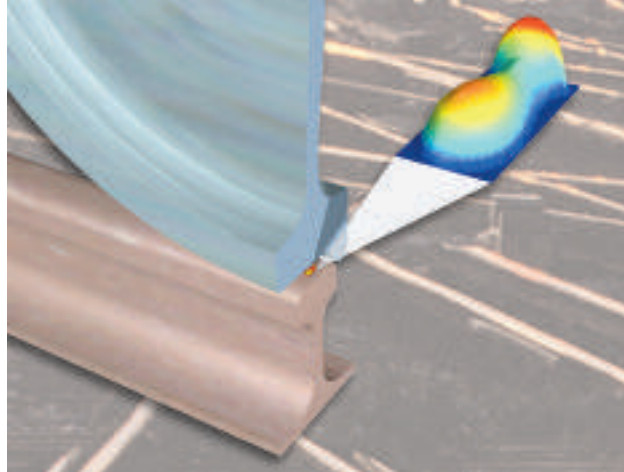


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In the high tech system train, all components have to work 100%. This also includes an optimized wheel-rail contact. **Page 46**



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Dear Readers,

The centenary year 2007 is now drawing to an end. At the beginning of the year, German Aerospace Center (DLR) celebrated 100 years of aerospace research in Göttingen, generating enthusiasm with interesting discussion topics and impressive exhibits. In late summer, over 80,000 visitors attended the Air and Space Day in Cologne-Porz. To mark the close of the year, we looked back over a very eventful year with excellent research results at our annual general meeting. In December, the commissioning of the space laboratory Columbus will have us holding our breath.

Milestones in aeronautics and spaceflight – that is what is expected from us. After all, it is these two fields which form our name. Concluding the aerospace year with a special edition on transport may cause people to sit up and take notice. And so it should.

Transport is our most recent field of research; it is not yet ten years old. For the DLR transport researchers, progress has been racing ahead in the fast lane. New institutes, unique large-scale facilities, a modern structure, and practice-based partnerships are what shape transport at DLR. DLR transport researchers use these competencies, picking up on synergies between aerospace and transport in order to make mobility as efficient, safe, and environmentally-friendly as possible. The use of satellite data and monitoring environmental parameters from flying platforms are just two of many examples.

Transport researchers at DLR are clearing the way for mobility in the 21st century – a factor which is of fundamental importance for the development of our country and, given the growing level of traffic, something that should not be taken for granted. At DLR, the way ahead has therefore been cleared for precautionary research for the mobility of tomorrow. At the same time, this demonstrates the innovative powers of our scientists and engineers. The Federal Ministry for Economics and Technology is supporting us on our way. I am therefore very pleased that Michael Glos, the Federal Minister for Economics and Technology, is providing the foreword to this issue of DLR Nachrichten.

In this spirit, DLR can now also be taken to signify: the German Aerospace, Energy and Transport Center.

Prof. Dr.-Ing. Johann-Dietrich Wörner
Chairman of the Executive Board

