

Technical Seminar CFSMA, associated with Lapinus Fibres BV Shanghai, 11th – 13th March 2009

On invitation of the CFSMA (China Friction and Sealing material Association) Lapinus Fibres organized the CFSMA's 7th Technical Seminar – titled **Fundamentals of Future Friction Development from a Business and Scientific point of view** – from March 11th to 13th in Shanghai.

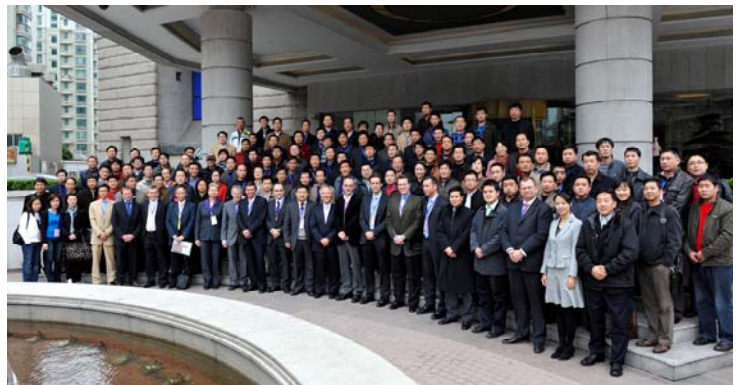


Dr. Peter Filip of the Southern Illinois University Carbondale

Goal of the 2½ day seminar was to inform the participants about future technical developments as well as about general trends relevant for the industry.

The program was facilitated by renowned speakers from many countries who covered areas such as research & development, formulating, testing, manufacturing, health & safety and environment. The expected trends on NVH (noise vibration harshness) and 'Green' formulations received special attention. Special invited guest speakers, employed by system suppliers TRW and Bosch, shared their view on future developments relevant for the friction industry,

The seminar was well attended with a record number (~120) of participants from all over China; both with an engineering and a management background. Even though the program was quite intense the audience's involvement and interest remained very high until the very last minute. An inquiry amongst the audience confirmed that the seminar was perceived as very positive.



all participants



presentation of the certificates

In their closing speech both the CFSMA chairman (Mr. Wang Yao) and Lapinus Managing Director (Mr. Jos Dumoulin) concluded that the seminar obviously had served its purpose and thanked both the speakers and the participants for their enthusiasm and active involvement. At the end of the seminar all participants received a certificate.

Details on speakers and topics:

- Mr. Jos Dumoulin (Lapinus) – Introduction to the seminar
- Mr. Jim Luo (TRW) – Trends and needs for brake system suppliers and vehicle manufacturers.
- Dr. Seong Kwan Rhee (SKR) – Noise Vibration Harshness
- Mrs. Nanty Hautus (Lapinus) – REACH and the friction industry
– Health and safety aspects of fibres used for friction materials
- Dr. Ole Kamstrup (Rockwool) – Development of biosoluble stone wool
- Dr. Eric Yu (Bosch) – NVH experimental investigation regarding friction material properties for contact.
- Dr. Peter Philip (Southern Illinois University) – Structure-properties-friction and wear performance of phenolic matrix brake materials
- Dr. Y. Desplanques (Ecole Centrale de Lille) – A third body approach of friction mechanisms involved in railway braking
- Mr. Luc Smeets (Lapinus) – Roxul®1000 USP's in NAO/non-steel disc pads
- Mr. Reiner Rick (Waldraff) – Automated friction material production process
- Mr. Kerssemakers (Lapinus) – (Partial) steel fibre replacement in low steel disc pad applications
– The usage of Rockbrake® fibres in CVL
- Mr. George Molenaar (RDW) – ECE R90.01 testing & certification
– Conformity of production.
- Mr. Chuck Greening – Future brake Requirements in North America and Europe



The audience