



P2RN: PREDICTION AND PROPAGATION OF ROLLING NOISE

**Final Seminar - Technopole Mulhouse
March 11-12, 2009**

Agenda

Wednesday, 11.03.2009

13:30 Opening

R. Engel (MEEDAT/PREDIT), A. Liessem (BMW), H. Jacquot-Guimbal (LCPC),
P. Reichelt (BASt)

14:00 P2RN Project: Introduction

M. Bérengier (LCPC) and M. Auerbach (BASt)

**14:15 Experimental program, tyre-road noise, sound absorption and 2D-texture
measurements**

F. Anfosso-Lédée (LCPC)

**14:35 Measurements of 3D texture, sound absorption (pu-probe), airflow resistance and
tyre properties**

M. Männel and B. Altreuther (MBBM)

14:55 The HyRoNE model: principles and construction

Ph. Klein (INRETS)

15:15 The SPERoN model: modelling approach, model structure and required input data

Th. Beckenbauer (MBBM)

15:40 Coffee break

16:10 Influence of the viscoelasticity on the contact pressure

H. Yin (ENPC)

- 16:30 The HyRoNE model: validation**
Ph. Klein (INRETS)
- 16:40 Validation of the SPERoN model and application for the design of 2 new textures**
M. Männel (MBBM)
- 16:55 Benchmarks on analytical and numerical models for road traffic noise propagation**
B. Gauvreau (LCPC)
- 17:15 DEUFRABASE**
B. Droste (BAST)
- 17:45 End**
- 20:00 Diner**

Thursday, 12.03.2009

- 9:00 Glass beads surface dressing test section**
O. Franchomme (Colas)
- 9:30 Mould approach**
Y. Meunier (Eiffage TP)
- 10:00 Experimental assessment of the 2 new surfaces**
F. Anfosso-Lédée (LCPC)
- 10:15 Comparison of SPERoN calculation and measuring results for the 2 new surfaces**
Th. Beckenbauer (MBBM)
- 10:30 Coffee break**
- 11:00 Conclusions**
M. Auerbach (BAST) and M. Bérengier (LCPC)
- 11:20 Discussion**
G. Licitra (ARPAT, Italy)
- 12:20 Outlook**
BMW, PREDIT
- 12:50 End**