



NVF 34

Nordic Road Association, Technical Committee 34 Pavements in cooperation  
with

“Norsk Asfaltforening” is inviting to the following event:

## **Joint Nordic/Baltic Symposium on Pavement Design and Performance Indicators**

### **– How should pavement service life be increased? –**

With limiting funding for road construction and maintenance, it is important to get the most value for the investment. The traditional design procedures used in Norway and many other countries give reasonable good designs for normal conditions. However, they are not flexible enough to be useful in more challenging cases.

The climate is changing, and so are traffic loads and amounts. In addition some of the empirical foundation for the simple systems is no longer valid. There is also a shift from construction of new roads towards rehabilitation of existing roads. To utilize the remaining worth of existing roads in an efficient manner, it is therefore necessary to have good tools for evaluation of relevant properties and for rehabilitation design including existing infrastructure.

This NVF/BRA symposium addresses these problems, and opens for discussion on the central topics needed for developing a future mechanistic based pavement design system. As such, it addresses itself towards pavement design and maintenance engineers in the Nordic and Baltic countries who are interested in these questions and who would like to learn more about some of the latest development within the field of pavement design and performance, and who would like to participate in the discussion of how to develop better tools to analyze and design rehabilitation of existing pavements.



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## "Joint Nordic/Baltic Symposium on Pavement Design and Performance Indicators"

Felix Konferansesenter,  
Bryggetorget 3, Aker Brygge, Oslo  
February 13 and 14 2008

### Final program

#### Wednesday Feb. 13

09:00-09:30 Registration/coffee

##### Opening

09:30-09:40 Helge Mork, NTNU: Welcome

##### Input parameters:

09:40-10:00 Per Otto Aursand, Svv Region Nord: "Climatic Challenges in Pavement Design"

10:00-10:20 Mindaugas Dimaitis, Transport and Road Research Institute: "Heavy Weight Transport on E Category Roads of Lithuania"

10:20-10:40 Ragnar Evensen, ViaNova: "Axle loads; Equivalent Axles or Load Spectrum?"

10:40-11:00 Tomas Winnerholt, Vägverket: "Bridge-WiM"

11:00-11:20 Janis Barbars, Latvian State Roads: "Traffic vehicle loads in Latvia/the Baltics"

11:20-12:20 *Lunch*

##### Response Models and Performance Prediction

12:20-12:40 Ragnar Evensen, ViaNova: "Performance Indicators"

12:40-13:00 Rabbira Garba; Svv Tek-T: "Performance Models for Flexible Pavements"

13:00-13:20 Audrius Vaitkus, Vilnius Gediminas Technical University: "Pavement Investigations – From Laboratory to Field";

13:20-13:50 *Coffee break*

13:50-14:10 Lillian Uthus, Veidekke : "Deformation Properties for Unbound Materials"

14:10-14:30 Patrick Muraya, NTNU: "Permanent Deformation of Aggregate Skeletons in Asphalt Materials"

##### Design Systems

14:30-15:00 Anders Huvstig, Vägverket: "The Active Design Project"

15:00-15:30 *Pause*

15:30-16:30 Panel Discussion

19:00 *Symposium dinner, D/S LOUISE Rest&Bar, Stranden 3*

#### Thursday Feb. 14

##### Design Systems cont.

09:00-09:20 NN: "A Future Norwegian Pavement Design System. What would it look like?"

##### Pavement Management Strategies

09:20-09:40 Torleif Haugødegård, Svv Tek-T: "New Measurement Equipment for Pavement Condition"

09:40-10:00 Torleif Haugødegård, Svv Tek-T: "The Norwegian PM System"

10:00-10:20 Lillian Uthus, Veidekke: "The Perfect Performance based Contract, how should it be?"

10:20-10:40 *Coffee break*

##### Quality Control Measures

10:40-11:00 Nils Uthus, Svv Tek-T: "State of Practice"

11:00-11:20 Helge Mork, NTNU: "LWD, Principles and Versability"

11:20-11:40 Inge Hoff, SINTEF: "GPR for Pavement Assessment"

##### Closing

11:40-12:00 Inge Hoff, SINTEF: "Advanced Design Methods or Rules of Thumb; does it matter?"

12:00-13:00 *Lunch*