6th symposium on pavement surface characteristics

Introduction to SURF2008

Bjarne Schmidt

Portorož, Slovenia
Acknowledge:

The Slovenian Roads Agency and Slovenian PIARC National Committee

Chairman of the Organizing Committee: Mr. Bojan Leben and his team

Chairman of the Scientific Committee Mr. Mathieu Grondin – and the work of the scientific committee
The challenges today:

- Environment
- Safety
- Air pollution
- Noise

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Implementing new contractual concepts as:

Long Term Performance-based Maintenance Contracts

Private – Public - Partnership

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## Development in vehicle fleet

<table>
<thead>
<tr>
<th></th>
<th>Speed</th>
<th>Functional time braking system</th>
<th>Deceleration</th>
<th>Braking distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary trailer</td>
<td>90 km/h</td>
<td>0.5 sec</td>
<td>4.95 m/s²</td>
<td>75.6 meter</td>
</tr>
<tr>
<td>Semi trailer</td>
<td>90 km/h</td>
<td>0.5 sec</td>
<td>4.70 m/s²</td>
<td>79.0 meter</td>
</tr>
<tr>
<td>Modular truck</td>
<td>90 km/h</td>
<td>0.75 sec</td>
<td>4.74 m/s²</td>
<td>84.7 meter</td>
</tr>
</tbody>
</table>

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Traffic speed versus stopping distance

Stopping distance - calculated
Stopping distance - measured
Poly. (Stopping distance - measured)
Poly. (Stopping distance - calculated)

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Protecting the road network assets

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Having a 20 to 30-years vision of developments in vehicle and road pavement characteristics
Review the possible evolution in private cars and trucks and impact of these changes on desirable characteristics for pavements

**Reducing road noise**
Review new developments in vehicles, tyres, pavements and their interaction allowing to envisage a significant reduction in road noise
Harmonise methods to characterise road noise

**Improving the description of pavement surface characteristics**
Continue the work on texture and skid resistance
Continue the work on automated cracking survey devices
Review recent practices in the use of surface condition measurement for acceptance of road works
Wishing you all a pleasant and fruitful SURF2008