



Norfolk, Virginia / September 19-22, 2012  
7th symposium on pavement surface characteristics

**SURF 2012**

# 7<sup>TH</sup> SYMPOSIUM ON PAVEMENT SURFACE CHARACTERISTICS SURF 2012 CLOSING SESSION



**Gerardo W. Flintsch**



# Our Theme

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**Smooth, Safe, Quiet and  
Sustainable Travel through  
Innovative Technologies**

# The Organizers



# Local Organizing Committee

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Gerardo Flintsch, Virginia Tech

Edgar de León Izeppi, VTTI

Affan Habib, VDOT

Kevin McGhee, VCTIR

Mark Swanlund, FHWA

**Mike Moravec, FHWA**

- Steve Karamihas, RPUG
- Thomas Tate, VDOT
- Greta Smith, AASHTO
- Evan Rothblatt, AASHTO
- **Ashley Roberts, VT CPE**
- **Colleen Bartos, VT CPE**

# The Symposium

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- **175 + participants**
- **4 sponsors and 10 exhibitors**
- **Excellent international participation**
  - ✓ delegates from 28+ countries
- ✓ **Excellent very interesting presentations**

# The Symposium (cont.)

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- We will like to get your **feedback**
  - A web-based evaluation form will be emailed to you in the next few days.
- All **presentations** will be available in the conference website.
- Accepted **papers** will also be made available
  - Those that satisfactorily addressed all the reviewer's comments may also be published in some other venue
  - We will contact authors for permission

# Symposium Highlights

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- **Great people!**
- **A good balance of:**
  - **Advanced scientific knowledge**
  - **Practical applications**
  - **Technological advances**
- **Good food and camaraderie**

# International Scientific Committee

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- **Brian FERNE**, representing PIARC TC D2a, TRL, UK (Chair)
- Johannes STEIGENBERGER, representing PIARC TC D2c, VOEZFI, Austria
- Andras GULYAS, representing PIARC TC D2b, KOZUT, Hungary
- Mark SWANLUND, representing FHWA, FHWA, USA
- Gerardo FLINTSCH, representing Virginia Tech, VTTI, USA
- Georges DIMITRI, representing ERTO, Michelin, France
- Kevin MCGHEE, representing TRB, VCTIR, USA
- Frank HOLT, representing Equipment Manufacturers, Dynatest, USA
- Audrey COPELAND, representing Asphalt Construction Industry, NAPA, USA
- Larry SCOFIELD, representing Concrete Construction Industry, ACPA, USA
- Armann NORHEIM, representing ICAO Friction Task Force, ICAO, Norway
- Bojan LEBEN, representing SURF2008, ZAG, Slovenia
- Maureen JENSEN, representing AASHTO, Minnesota, USA



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## Gold Sponsors



## Silver Sponsors



# Thanks to our Exhibitors

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## Exhibitors



International Cybernetics



WayLink Systems Corporation



W.D.M. Limited

# Thanks to our Reviewers

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**Brian FERNE**

**Andras GULYAS**

**Mark SWANLUND**

**Gerardo FLINTSCH**

**Kevin McGHEE**

**Frank HOLT**

**Aubrey COPELAND**

**Larry SCOFIELD**

**Armann NORHEIM**

**Bojan LEBEN**

**Bjarne SCHMIDT**

**Dr. Christina PLATI**

**Fabienne ANFOSSO LÉDÉE**

**Filippo G. PRATICO**

**Goran MLADENOVIC**

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**Luc-Amaury GEORGE**

**Benoit PETITCLERC**

**Joralf AURSTAD**

**Margo BRIESSINCK**

**Paulo A. PEREIRA**

**Rajandran PADAVATTAN**

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**Thanks to our Presenters and  
Panelists**

**And thanks to all of you for  
your participation and  
contributions!**

# Technical take-away I

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- There have been tremendous technological advances that are changing the way we evaluate pavement surface characteristics
  - New ways of looking at smoothness
  - Measuring of rolling resistance
  - High-resolution **3D scanning systems**
  - Use of vehicles as data collectors
- **Need to coordinate/ collaborate with tire and vehicle industry**

# Technical take-away II

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- Continuous focus on understanding the impact of pavements on the user and the surrounding population
  - Friction **impact on safety**
  - Noise measurement and standards
  - Modeling of Splash and Spray
- “Optimization” of pavement surfaces

# Technical take-away III

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- Pavement surface characteristics are key inputs for **supporting decisions**
  - Pavement management
  - Safety management
  - **Performance management**
  - Asset management
  - Sustainability assessments



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