



30th RPUG Annual Conference

Best Western Hotel, Rapid City, SD, USA - September 18 to 21, 2018

MONDAY, SEPTEMBER 17	
03:00 PM – 06:00 PM	TPF-5(345) PSC Pooled Fund Meeting
TUESDAY, SEPTEMBER 18	
08:00 AM – 05:00 PM	TPF-5(299) Distresses Pooled Fund Meeting
01:00 PM – 05:00 PM	Profile 101 Workshop
06:00 PM – 08:00 PM	<i>RPUG Ice Breaker Reception</i>
WEDNESDAY, SEPTEMBER 19	
07:00 AM – 08:00 AM	<i>Breakfast/Vendor Exhibits</i>
08:00 AM – 10:00 AM	Session 1 – Welcome, Keynotes, TPF Updates & Vendors Introduction
10:00 AM - 10:30 AM	<i>Break/Vendor Exhibits</i>
10:30 AM – 12:00 PM	Session 2 – Data Quality Management Programs under the MAP-21/FAST Acts
12:00 PM - 01:00 PM	<i>Lunch/Vendor Exhibits</i>
01:00 PM – 02:30 PM	Session 3 – Texture and Friction (I)
02:30 PM – 03:00 PM	<i>Break/Vendor Exhibits</i>
03:00 PM – 04:20 PM	Session 4 – PSC Topics (I)
04:20 PM – 04:40 PM	RPUG Open Business Meeting
05:00 PM – 09:00 PM	<i>Bus Ride to Dinner and Activities</i>
THURSDAY, SEPTEMBER 20	
07:00 AM – 08:00 AM	<i>Breakfast/Vendor Exhibits</i>
08:00 AM – 09:30 AM	Session 5 – 3D and Condition Survey
09:30 AM - 10:00 AM	<i>Break/Vendor Exhibits</i>
10:00 AM - 12:00 PM	Session 6 – Texture and Friction (II)
12:00 PM - 01:00 PM	<i>Lunch/Vendor Exhibits</i>
01:00 PM – 02:30 PM	Session 7 – PSC Topics (II)
02:30 PM - 03:00 PM	<i>Break</i>
03:00 PM – 05:30 PM	Session 8 – Open Panel Discussion: Lessons-Learn from IRI Spec
05:30 PM – 06:00 PM	Closing & Introduction to Pavement Evaluation 2019/RPUG
06:00 PM – 09:00 PM	Award Dinner
FRIDAY, SEPTEMBER 21	
08:00 AM – 05:00 PM	TPF-5(354) Profile Pooled Fund Meeting



Monday, September 17

03:00 PM – 6:00 PM
TPF-5(345) Pooled Fund Meeting

Moderator: Kevin McGhee, FWHA

Pavement Surface Properties Consortium Pavement Surface Properties Consortium – Managing the Pavement Properties for Improved Safety – Pooled Fund Meeting

This meeting is for its members and all others interested in this subject.

Tuesday, September 18

08:00 AM – 05:00 PM
TPF-5(299) Pooled Fund Meeting

Moderator: Andy Mergenmeier, FHWA

Improving the Quality of Pavement Surface Distress and Transverse Profile Data Collection and Analysis – Pooled Fund Meeting

This meeting is for its members and all others interested in this subject.

01:00 PM – 5:00 PM
Profiling 201 Workshop

Moderator: Steve Karamihas, UMTRI

Measurement and analysis of road profiles.
It is open to all RPUG attendees.

06:00 PM – 8:00 PM
RPUG Ice Breaker Reception

It is a great networking opportunity!
All RPUG attendees are welcome!



Wednesday, September 19

08:00 AM – 10:00 AM Session 1 – Welcome, Keynotes, TPF Updates & Vendors Introduction	Moderator: Brian Schleppe, RPUG President & Dave Huft, SDDOT
Welcome from SDDOT	SDDOT
Keynotes: History of RPUG	Brian Schleppe, RPUG
Keynotes: 30 Years On The Road To Progressively Better Data	Richard Wix, ARRB
Pooled Fund Updates (Profile, Distresses & PSC)	Dave Huft, SDDOT Andy Mergenmeier, FHWA Kevin McGhee, VDOT
Vendors' Introduction	All vendors' representatives
10:30 AM – 12:00 PM Session 2 – Data Quality Management Programs under the MAP-21/FAST Acts	Moderator: Luis Rodriguez, FHWA
FHWA Data Quality Management Program (DQMP)	Luis Rodriguez, FHWA
CTDOT's Experiences on DQMP	John Henault, CTDOT
SDDOT's Experiences on DQMP	Ken Marks, SDDOT
Questions and Answers	Panel
01:00 PM – 02:30 PM Session 3 – Texture and Friction (I)	Moderator: James Greene, FDOT
Exploring Pavement Texture and Surface Friction Using Soft Computing Techniques	Guanghui Yuang , OSU
Aggregate Micro-texture Analysis based on Morphometric Parameters	Sareh Kouchaki, UT Austin (by Robin Huang)
Improved Resolution Skid Testing	John Andrews, MD SHA
Using High Speed Macrottexture Profilers for Friction Modeling	Ahmad A. Alhasan



Wednesday, September 19

03:00 PM – 04:20 PM	
Session 4 – PSC Topics (1)	Moderator: Bob Orthmeyer, FHWA
3D Moving Reference Method for Full Speed Road Profiler	Yaxiong (Robin) Huang , HyMIT LLC
Field Experiment for Accuracy Verification of Pavement Inspection in TRUE Project	Kazuya Tomiyama, Kitami Institute of Technology, Japan
Pavement Friction Management Support Program	Edgar de León Izeppi, Virginia Tech
Guidance to Predict and Mitigate Hydroplaning NCHRP 15-55	Gerardo Flintsch, Virginia Tech
04:20 PM – 04:40 PM	
RPUG Open Business Meeting	Moderator: Brian Schleppi, RPUG President
RPUG business meeting Open to all attendees	



Thursday, September 20

08:00 AM – 09:30 AM Session 5 – 3D and Condition Survey	Moderator: Andy Mergenmeier
Hardware And Software Improvements Using 1mm X 1mm Resolution 3D Road Surface Data	John Laurent, Pavemetrics, CAN
Next-Gen High-Speed 3D Sensors and Cognition Based Intelligent Solutions for Condition and Safety Surveys: Status and Direction	Kelvin Wang, OSU
Is that what I ordered?	Richard Wix, ARRB, AU
High Resolution Multi-Lane Road Surface Mapping Using 3d Laser Profilers For 3D Paving And Milling Projects	John Laurent, Pavemetrics, CAN
10:00 AM – 12:00 PM Session 6 – Texture and Friction (II)	Moderator: Kevin McGhee, VDOT
Tire Pavement Interaction Noise and Correlation with Pavement Texture Parameters	Ricardo Burdisso, Virginia Tech
Multi-length scale Modeling of Dry/ Wet Traction	Sunish Vadakkeveetil, VT (by Ricardo Burdisso)
Where Does “Safety” Fit in Pavement Evaluation	Jerry Daleiden, ARRB Group
Mitigating Sand Patch Test Variability Using Laser Technology	Yorguo El Hachem, UT Austin (by Feng Hong)
Developing Analytical Filters to Characterize the Impact of Curling and Warping on Ride Quality	Ahmad A. Alhasan, ISU
01:00 PM – 02:30 PM Session 7 – PSC Topics (II)	Moderator: Chad Shive, KYTC
Evaluating Transverse Profile Measurements Using the Cross-Correlation Technique	Rohan W. Perera, SME
I-96 Case Study: Jointed Concrete Pavement Curling and Warp Presented in the Context of Pavement Asset Management System Data Analysis	Christopher R. Byrum, SME
Cracking Definitions through Consensus for the Future	Kelvin Wang, OSU
Protocols for Network Level Macrotecture NCHRP 10-98	Vincent Bongioanni



Thursday, September 20

03:00 PM - 05:30 PM	
Session 8 – Panel Discussion: Lessons-Learn from Implementing IRI Specifications	Moderator: Magdy Mikhail, TXDOT
Panel Discussion on Lessons-Learn from Implementing IRI Specifications	DOT Panel Members
05:30 PM - 06:00 PM	
Closing, Awards & PE2019/RPUG	Moderator: Brian Schleppe, RPUG President
Conclusions of the RPUG 2018 program	Brian Schleppe, RPUG
Announcements of Pavement Evaluation/RPUG 2019	Kevin McGhee, VDOT

Friday, September 21

08:00 AM – 05:00 PM	
TPF-5(354) Pooled Fund Meeting	Moderator: Dave Huft, SDDOT
TPF-5(354) Improving the Quality of Pavement Profiler Measurement Pooled Fund Meeting	
This meeting is open to its members and invited participants.	