

35th RPUG Annual Conference

"New Technology for an Old World"
World Golf Village Renaissance
St. Augustine, FL, USA, April 29 – May 2, 2024.

General Agenda

MONDAY, April 29 th		
08:00 AM - 12:00 PM	TPF-5(399) Distresses Pooled Fund Meeting	
01:00 PM - 05:00 PM	TPF-5(463) Friction Pooled Fund Meeting	
06:00 PM - 08:00 PM	Ice-Breaker Reception	
TUESDAY, April 30th		
07:00 AM - 08:00 AM	Breakfast (visit exhibits)	
08:00 AM - 09:00 AM	Session 1 - Welcome, Keynote, and Vendors Introduction	
09:00 AM - 09:30 AM	Break (visit exhibits)	
09:30 AM - 12:00 PM	Session 2 Texture and Friction I	
12:00 PM - 01:00 PM	Break (lunch & poster session I)	
01:00 PM - 03:30 PM	Session 3 Texture and Friction II	
03:30 PM - 03:45 PM	Break (visit exhibits)	
03:45 PM - 05:00 PM	Session 4 Distresses and Open Panel Discussion	
06:00 PM - 10:00 PM	Evening Activities (offsite)	
WEDNESDAY, May 1st		
07:00 AM - 08:00 AM	Breakfast (visit exhibits)	
08:00 AM - 10:05 AM	Session 5 Profile I	
10:05 AM - 10:35 AM	Break (visit exhibits)	
10:35 AM - 11:50 PM	Session 6 Profile II	
11:50 PM - 01:00 PM	Break (lunch & poster session II)	
01:00 PM - 02:40 PM	Session 7 Pavement Condition Survey	
02:40 PM - 02:55 PM	Break (visit exhibits)	
02:55 PM - 04:50 PM	Session 8 Pavement Evaluation and RPUG Business Meeting	
06:00 PM - 10:00 PM	Evening Activities (onsite)	
THURSDAY, May 2 nd		
08:00 AM - 12:00 PM	TPF-5(354) Profile Pooled Fund Meeting	
01:00 PM - 05:00 PM	ProVAL Workshop	



Monday, April 29, 2024

08:00 AM - 12:00 PM

TPF-5(399) Distresses Pooled Fund Meeting Moderator: Andy Mergenmeier, FHWA

Room: Legions Ballrooms

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 - 05:00 PM

TPF-5(463) Friction Pooled Fund Meeting Moderators: Edgar D. de León Izeppi, VTTI

Room: Legions Ballrooms

This is a TPF-5(463) Friction Pooled Fund Meeting to discuss the TPF's friction studies.

All TPF members and friends are welcome!

06:00 PM - 8:00 PM Ice Breaker Reception Room: Ballroom E, F, G

It is a great networking opportunity to be held at the exhibit hall. All RPUG attendees are welcome!



Tuesday, April 30th, 2024

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08:00 AM - 09:00 AM Session 1 - Welcome, Keynote, & Vendors Intro Room: Legions Ballrooms	Moderator: John Senger, IDOT (RPUG President)
Welcome	John Senger, IDOT (RPUG President)
Keynotes	Bouzid Choubane, NCPP Charles Holzschuher, FDOT
Vendors' Introduction	All vendors' oral representatives
09:00 AM - 09:30 AM Break (visit exhibits)	
09:30 AM - 12:00 PM Session 2 - Texture and Friction (I) Room: Legions Ballrooms	Moderator: John Andrews, Powel Engineering
Evaluating the relationships between different testing systems used on roadways to measure friction and macrotexture on state highway agencies to assess similar friction characteristics (microtexture and macrotexture)	Edgar D. de León Izeppi, VTTI, Gerardo W. Flintsch, Ross McCarthy, and Harikrishnan Nair
Establishing a Validation Procedure for Continuous Friction Measurement Equipment	Chris Young, ARRB Systems
Texture Signature Performance and Evaluation	Everett Schmitz, Pathway Services, Inc.
Application of Artificial Neural Network in Predicting Pavement Macrotexture	Behrokh Bazmara , Vtech, Flintsch, W.G., de León Izeppi, E., Golalipour, A. and Boz, I.
Are automated distress surveys with high repeatability and reproducibility really possible on statewide projects?	Danilo Balzarini, ICC
Deterioration Analysis Using Macrotexture and Aggregate Loss Indicators from Multi-Timestamp 3D Pavement Surface Data	Ryan Salameh, GTECH, Pingzhou (Lucas) Yu, Yichang (James) Tsai
12:00 PM - 01:00 PM Break (lunch)	
12:30 PM - 01:00 PM Poster Session (I) Room: Ballroom E, F, G	Moderator: Thad Bauer, SDDOT
3D Reconstruction of Pavement Surface Texture	Mohammad Fakhreddine, U IL, Imad L. Al- Qadi, Mani Golparvar-Fard, and Fangyu Liu
Aligning Ride Quality Measurement with Road User Experience	Michael Nieminen, ICC
JPCP Slab-based Spatial-Temporal Deterioration Analysis using Multi-Timestamp 3D Pavement Surface Data	Ryan Salameh, GATech, Yichang (James) Tsai
Automated crack detection using line laser scanners in Sweden and development of new surface defect parameters	Martin Wiström, Ramboll



Tuesday, April 30th, 2024 (cont'd)

01:00 PM - 03:30 PM Session 3 - Texture and Friction (II) Room: Legions Ballrooms	Moderator: Steven Hale, NVDOT
Energy-Based Noncontact Tire-Pavement Friction Models	Ahmad Alhasan, ARA
Smart Tire Sensors for Verifying Accuracy of Continuous Friction Measuring Equipment (CFME)	Richard Ji, FAA
Continuous Tire-Pavement Friction and Macrotexture: Left vs. Right Wheel Paths	Isaac Briskin, WDM, Daniel Galvez, Ryland Potter
Compare CA portable skid tester (PST) against CFMEs	Baron Colbert, Caltrans
Implementation of Relative Performance Targets in a New State PMS Using Deighton's dTIMS Platform	Md S Rahman, CTDOT, Daniel Weymouth, Alex Bernier, PE
03:30 PM - 03:45 PM Break (visit exhibits)	
03:45 PM - 05:00 PM Session 4 - Distresses and Panel Open Discussion Room: Legions Ballrooms	Moderator: Bouzid Choubane, NCPP
How FDOT is using machine learning to detect Raveling from LCMS Images	Mateo Carvajal, FDOT, Noah Borelli, Charles Holzschuher, William Bryant
Panel Discussion on Texture	Brian L. Schleppi, Mandli, WDM, SSI, Pavemetrics, Pathway Services
Open Discussion using online polling software	Steve Karamihas, APTech
06:00 PM - 10:00 PM	
06:00 PM - 10:00 PM Evening Activities at the Gatorland TBA	
Evening Activities at the Gatorland	



Wednesday, May 1st, 2024

08:00 AM - 10:05 AM Session 5 - Profile (I) Room: Legions Ballrooms	Moderator: Colin McClenahen, PennDOT
The Switch from PRI to IRI: An Update	Steve Hale, NVDOT
All Speed Profiler (ASP)	Everett Schmitz, Pathway Services Inc.
Application of ProVAL SAM Grinding Simulation for Cold Planing	Jeff McGowan , Shelly Sands
Caltrans Stop-and-Go Profiler Implementation	Baron Colbert, Caltrans
Detection of Road Profile Measurement Errors	Steven M. Karamihas, APTech
10:05 AM - 10:35 AM Break (visit exhibits)	
10:35 AM - 11:50 PM Session 6 - Profile (II) Room: Legions Ballrooms	Moderator: Nathan Kebede, Michael Baker
Illinois Certification and Research Track	John Senger, IDOT
ICART	Cindy MacDonald, Mandli, John Senger , IDOT
Key Findings Regarding Cross Correlation	Steven M. Karamihas, APTech
12:05 PM - 01:00 PM Break (lunch)	
12:30 PM - 01:00 PM Poster Session (II) Room: Ballroom E, F, G	Moderator: Stephanie Weigel, NDDOT
Quantifying Longevity of Shotblasting Friction and Texture Improvements	Boris Goenaga, NCSU, Paul Rogers, and Shane Underwood
Multi-temporal Pavement Image Registration for Pavement Distress Deterioration Analysis"	Zhongyu Yang, GATech, Yi-Chang (James) Tsai
Investigation of Relationship between Macrotexture and Percent Embedment in Chip Seals using Image Processing	Brian Moon, ARA, Ahmad Alhasan, Hyung Lee and John Senger
Road Profilers have a major role in assisting Road Agencies meet new MUTCD mandatory pavement marking retroreflectivity requirements.	Joe Turley, RetroTek



Wednesday, May 1st, 2024 (cont'd)

01:00 PM - 02:40 PM Session 7 - Pavement Condition Survey Room: Legions Ballrooms	Moderator: Christy Poon-Atkins, FHWA
From 2D to 3D – the Future of ProVAL	George Chang, Transtec Group
Evaluation on Surface Characteristics of Florida's Concrete Test Road and Longitudinally Grooved Concrete Project	Charles Holzschuher, FDOT
HPMS Pavement Data Reporting and Recent Status	Maxx Grogg, APTech
What is and What's New with TRB AKP50?	Brian L. Schleppi
02:40 PM - 02:55 PM Break (visit exhibits)	
02:55 PM - 04:50 PM Session 8 - Pavement Evaluation and RPUG Business Meeting Room: Legions Ballrooms	Moderator: John Senger, IDOT
FDOT Implementation of the Automated Condition Survey	William Bryant, FDOT
Comparing Road Condition Indices Using Automated PCI, PASER and PSCI methods on standard LCMS road condition data outputs.	John Laurent, Pavemetrics
Value of Asset Lifecycle Management Integration	Maximillian Ovett, Trimble
RPUG Business Meeting	John Senger, IDOT
06:00 PM - 10:00 PM Evening Activities at the Hotel Room: Ballroom E, F, G	
ТВА	



Thursday, May 2nd, 2024

08:00 AM - 12:00 PM

TPF-5(354) Profile Pooled Fund Meeting **Moderator: Thad Bauer, SDDOT**

Room: Legions Ballrooms

Improving the Quality of Highway Profile Measurement - Pooled Fund Meeting

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

12:00 PM - 1:00 PM Break (lunch on your own)

01:00 PM - 05:00 PM **ProVAL Workshop Room: Legions Ballrooms**

Trainers: George Chang and Dave Merritt, Transtec Group

This workshop is hands-on and focuses on ProVAL software exercises.

All participants need to bring their laptop computer preinstalled with ProVAL 4.0.

5:00 PM **RPUG 2024 Adjourned**

See You Next Year!