

PROGRAM

DAY #1 | SEPTEMBER 12th (2022) Starhotels Rosa Grand

time	room	plenary workshops
02:00 p.m.	TURANDOT	On-site registration opens
02:30 p.m.	AIDA	WORKSHOP 1
04:30 p.m.		State of Art and advancements about surface characteristics G. Flintsch R. Wix
04:30 p.m.	AIDA	WORKSHOP 2
06:30 p.m.		Concrete & Asphalt – State of Art and advancements about Surface Treatments & Maintenance M. Crispino E. Toraldo L. Rens
06:30 p.m.	GRAND LOUNGE & BAR	Opening reception
07:30 p.m.		

DAY #2 | SEPTEMBER 13th (2022)

Starhotels Rosa Grand

time	room	plenary opening session
08:30 a.m.	TURANDOT	On-site registration opens
09:00 a.m.	AIDA	INTRODUCTION AND WELCOME SPEECHES
10:00 a.m.		<p>Maurizio Crispino - Professor, Symposium Chair, Moderator Alberto Guadagnini - Rector's delegate, Director of Department of Civil and Environmental Engineering, Politecnico di Milano Aldo Isi - Anas Ceo, Symposium Co-Chair Massimo Schintu - AISCAT General Director Claudio Eminente - Direttore Centrale Pianificazione Economica e Sviluppo Infrastrutture, ENAC Margo Briessinck - PIARC TC 4.1 "Pavements" Chair Nazir Alli - PIARC, President Armando Zambrano - Italian Engineers National Council, President Claudia Terzi - Regione Lombardia, Councilor for Infrastructures Enrico Giovannini - Italian Minister of Sustainable Infrastructures and Mobility <small>(to be confirmed)</small></p>
10:30 a.m.	AIDA	KEYNOTE SPEECH
11:00 a.m.		<p>Revolutionizing Pavements for the CAV era Imad Al-Qadi - Director, Illinois Center for Transportation, USA</p>
11:00 a.m.	EXHIBIT HALL	Coffee Break
11:30 a.m.		
time	room	concurrent technical session 1
11:30 a.m.	AIDA	Data Monitoring and Performance Assessment
01:30 p.m.	NORMA	Surface Materials Performance
	TOSCA	Urban Pavements: heat islands, pedestrian areas, and cycle paths
	MANON	Surface Layers and Bituminous Materials, Design and Characterization
01:30 p.m.	EXHIBIT HALL	Light Lunch
02:30 p.m.		
time	room	concurrent technical session 2
02:30 p.m.	AIDA	Ride Safety and Pavement Surface Performance
04:30 p.m.	NORMA	Environmental Impacts and Issues
	TOSCA	Noise Effects and Roads Surface Characteristics
	MANON	Road Pavement Management
08:00 a.m.	ROSES RESTAURANT	Gala Dinner

DAY #3 | SEPTEMBER 14th (2022)

Starhotels Rosa Grand

time	room	concurrent technical session 3
09:00 a.m.	AIDA	Road Materials and Pavements Bearing Capacity
11:00 a.m.	NORMA	Maintenance and Preservation Treatments
	TOSCA	Safety and Risk Issues
	MANON	Airport Pavements and Management
11:00 a.m.	EXHIBIT HALL	Coffee Break
11:30 a.m.		
time	room	concurrent technical session 4
11:30 a.m.	AIDA	Pavement Condition Measures and Models
01:30 p.m.	NORMA	Pavement Surface Characteristics and Measures
	TOSCA	Road Materials and Construction
	MANON	Quality Assessment of Pavement Surface Layers
01:30 p.m.	EXHIBIT HALL	Light Lunch
02:30 p.m.		
02:30 p.m.	NORMA	POSTER session
03:30 p.m.		
time	room	plenary closing session
03:30 p.m.	AIDA	KEYNOTE SPEECH
04:00 p.m.		Smart tyres: Key enablers of future mobility scenarios Corrado Rocca - R&D Head, Cyber Unit, Pirelli Tyre
04:00 p.m.	AIDA	Cultural intermezzo
04:30 a.m.		
04:30 p.m.	AIDA	CLOSING SESSION AND CONCLUSION OF THE SYMPOSIUM
05:00 p.m.		Maurizio Crispino - Professor, Symposium Chair Alberto Talierno - Rector's delegate, Dean of School of Civil, Environmental and Land Management Engineering – Politecnico di Milano Edoardo Valente - ANAS President Domenico Crocco - PIARC Italy First Delegate Margo Briessinck - PIARC TC 4.1 "Pavements" Chair Surf 2022 - Student challenge awards Surf 2022 - Best paper awards
05:00 p.m.	EXHIBIT HALL	Coffee Break
05:30 p.m.		

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 1

Topic	Data Monitoring and Performance Assessment
Day	#2, September 13 th
Time	11:30 a.m. – 01:30 p.m.
Room	AIDA
Sessions Chairs	Luc Rens TBD

ID	title
176	Analysis and Visualization for Pavement Condition Assessment Using Network-Level Survey Data Than Than Nyunt Zhuoyuan Cheng Puay Ping Koh Anggraini Zulkati Kian Keong Chin
210	Detection of Irregularities Within the Asphalt Surface Behind the Paver Screed Using Image Analysis Leandro Harries Stefan Helfmann Stefan Böhm
347	Road Condition Monitoring and Assessment in Germany How to Use the Data for Pavement Analysis Ferdinand H. Farwick zum Hagen Felix Lau
229	Real Time Road Condition Monitoring Data as a Tool for Situation Awareness in the Maintenance Management of Paved and Gravel Roads Timo Saarenpää Pekka Haatainen Markus Simonen Timo P Saarenketo
366	Analysis of Road Damage with Computer-Vision Based Drive-By System Sergio Caccamo
231	Monitoring Rut Depth Development – What Does It Tell Us Timo P Saarenketo Tomi Herronen Vesa Männistö

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 1

Topic	Surface Materials Performance
Day	#2, September 13 th
Time	11:30 a.m. – 01:30 p.m.
Room	NORMA
Sessions Chairs	Joralf Aurstad TBD

ID	title
163	Performance Review of Surfacing Materials Incorporating Enhanced Levels of Reclaimed Asphalt on the UK Strategic Road Network Michael Wright Matthew Wayman Wenxin Zuo
326	The Use of Aggregates with Different Resistance to Polishing in Wearing Courses Pavla Nekulova Jaroslava Daskova Leos Nekula Petr Bures Jiri Kaspar
168	Challenges for the Development and Implementation of Asphalt Mixtures containing Recycled Waste Plastic for Pavement Surfacing Greg White Gordon Reid
311	Systemic Analysis of the Thermal Performance of Road Surfaces Maxime Frere Martin Hendel Julien Van Rompu Simon Pouget Laurent Royon
298	Test Section with Next Generation Concrete Surface (NGCS) in Belgium: Rolling Resistance and Noise Anneleen Bergiers Barbara Vanhooreweder
296	ULTRAPAV - New Asphalt Mixtures with High Mechanical Performance, Enhancing Their Sustainability and Their Safety Victor Garcia Rabadan Gloria Motos Cascales Julio Lopez Ayerra Jose Ramon Lopez Marco Jesus Felipe Sanjuan Rebeca Maria Sastre Rabal

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 1

Topic	Urban Pavements: heat islands, pedestrian areas and cycle paths
Day	#2, September 13 th
Time	11:30 a.m. – 01:30 p.m.
Room	TOSCA
Sessions Chairs	Stefan Holler TBD

ID	title
193	Simplified Road Pavement Surface Deterioration Model in Urban Area Monica Meocci Valentina Branzi
197	Colorimetry of Pavements for Urban Planning Laure Lebouc Sébastien Liandrat Romain Lafon Aurélia Nicolai Fabrice Fournela Florian Greffier
316	Building Information Modeling for Municipal Asset Management Alexander Buttgerit Maria Koordt Markus Stöckner Ute Stöckner
219	Mix Design of Recycled Asphalt Concretes for Sustainable Rural Mobility: Bicycle and/or Pedestrian Routes Donato Ciampa Maurizio Diomedi Francesco Paolo Rosario Marino Saverio Olita
239	Pavements, Energy Efficient Actors in Public Lighting Sébastien Liandrat Valérie Muzet Vincent Bour Jérôme Dehon Jean-Pierre Christory Brice Delaporte Joseph Abdo Florence Pero Thibaut Le Doeuff
317	Applicability of WMA in Urban Road Construction in Accordance with Occupational Health and Safety Requirements Alexander Buttgerit Knut Johannsen Daniel Gogolin

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 1

Topic	Surface Layers and Bituminous Materials, Design and Characterization
Day	#2, September 13 th
Time	11:30 a.m. – 01:30 p.m.
Room	MANON
Sessions Chairs	Richard Wix TBD

ID	title
341	An Analytical Model for Forecasting Pavement Temperature Usama B Ayasrah Laith Tashman
359	Evaluation of Pavement Temperature Detected Through Embedded Sensors – Comparison of Field Data with Different Predictive Models Cristina Tozzo Davide Chiola Nicoletta Gasbarro Paolo Spinelli
340	Bituminous Sealant: New Formulation Approach Using Rheology Ines Antunes Gilberto Del Zoppo Fabio Curto
221	Laboratory Investigation on the Role of Fibers into Porous Bituminous Mixtures Edoardo Mariani Emanuele Toraldo
357	Recycled Porous Asphalt Concretes: Pros and Contrasts Rosolino Vaiana Filippo Giammaria Praticò Teresa Luele Manuel De Rose Giusi Perri Rosario Fedele Francesco De Masi
360	Grip Mastic Asphalt – High Friction Asphalt for Wearing Course with the Addition of Steel Slag Cristina Tozzo Davide Chiola Nicoletta Gasbarro Paolo Spinelli

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 2

Topic	Ride Safety and Pavement Surface Performance
Day	#2, September 13 th
Time	02:30 p.m. – 04:30 p.m.
Room	AIDA
Sessions Chairs	Gina Ahlstrom Davide Chiola

ID	title
278	An Exploration of Friction Supply and Demand - The Management of Road Surface Friction as a Factor in Vehicle Safety Peter D. Sanders Helen Viner
287	Characterization of Surface Roughness on the basis of Vibration Response Corresponding to the Ride Quality of Micromobilities Kazuya Tomiyama Yuki Kotani
233	Improving the Understanding of User Experience of Ride Quality Alex Wright Craig Thomas Kamal Nesnas Nathan Dhillon Neng Mbah Stuart McRobbie
192	Determination of Riding Comfort of Cycleways Leif Sjögren
288	Adjusting Skid Resistance Data for Seasonal Variation on the Irish National Road Network Using Local Climatic Data Rory K. Donnellan Kieran Feighan Brian Mulry
306	Relationship Between Driving Conditions, Pavement Characteristics and Rolling Resistance Veronique Cerezo Joao Santos Mohamed Bouteldja Xavier Potier

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 2

Topic	Environmental Impacts and Issues
Day	#2, September 13 th
Time	02:30 p.m. – 04:30 p.m.
Room	NORMA
Sessions Chairs	Zsolt Boros Edoardo Mariani

ID	title
300	The Environmental Asphalt Rating (EAR) – A Case Study for Open-Graded Asphalt Mixtures Davide Chiola Vincenzo Cirimele Cristina Tozzo Paolo Spinelli
323	Environmental Efficiency Assessment of RCA Inclusion as Partial Replacement of Virgin Aggregates in HMA and WMA Rodrigo Ernesto Polo-Mendoza Emilio Turbay Gilberto Martinez-Arguelles Rita Peñabaena-Niebles
345	Comparing Environmental Impacts of Alternative Roads: Mechanical and Sustainable Considerations Gaetano Bosurgi Clara Celauro Giuseppe Lo Brano Orazio Pellegrino Giuseppe Sollazzo
237	Innovative Cement-Based Material as Environmental and Efficient Technical Alternative for Pavements Arianna Stimilli Tullio Caraffa Alessandro Marradi
338	Evaluation of Porous Asphalt Hydrological Performances Through Rainfall-Runoff Modelling by EPA SWMM Diego Ciriminna Giovanni Battista Ferreri Leonardo Valerio Ferreri Clara Celauro
290	Pavement Heating System Using Electroconductive Paint for Preventing Ice Formation on The Surface Layer Thomas Attia Flavien Geisler Simon Pouget Camille Thomasse Dominique Le Blanc

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 2

Topic	Noise Effects and Roads Surface Characteristics
Day	#2, September 13 th
Time	02:30 p.m. – 04:30 p.m.
Room	TOSCA
Sessions Chairs	Nazir Alli Massimo Losa

ID	title
222	Understanding User Experience of In-Vehicle Noise Based on Road Surface Texture Data Tadas Andriejauskas Alex Wright Rob Lee Craig Thomas Stuart McRobbie Neng Mbah
232	Effect on Noise Reduction of Repaving Only the Top Layer in a Double-Layer Porous Asphalt Pavement Ulf Sandberg
199	Optimizing the Pattern of Grooves of the Next Generation Cement Concrete Surface (NGCS) for Less Tyre/Road Noise and Less Fuel Consumption Luc Goubert
356	Acoustic Characterisation of Motorway Pavements: New Perspectives to Optimise Road Asset Management Lara Ginevra Del Pizzo Antonino Moro Francesco Bianco Davide Chiola Benedetto Carambia Gaetano Licitra
238	Pavement Maintenance Influence on Road Traffic Noise Emission Manfred Haider Reinhard Wehr Roland Spielhofer
250	Impacts of the Shift from Distressed Pavements to Low Noise Pavements in Motorways – A Case Study in Portugal Maria João Rato Maria Inês Ramos Elisabete F. Freitas Margarida Braga Luís Fernandes Ana Falcão Isabel Gonzalez Eduardo Fernandes

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 2

Topic	Road Pavement Management
Day	#2, September 13 th
Time	02:30 p.m. – 04:30 p.m.
Room	MANON
Sessions Chairs	Mariano Perneti TBD

ID	title
205	Definition of a Low-Cost Pavement Management Method based on a Dual Analytic Hierarchy Process Nicholas Fiorentini Giacomo Cuciniello Pietro Leandri Massimo Losa
271	Predicting the Coefficient of Friction as a Support Tool for Decision Making in Pavement Management System José Breno Ferreira Quariguasi Francisco Heber Lacerda De Oliveira Minh-Tan Do Manuela Genesseeux
264	ANAS PMS (Pavement Management System) for Road Pavement Management Stefano Oddone Massimo Simonini Marcello De Marco Stefano Drusin
270	A “Big Data” Approach Towards Analysis and Causation of Pavement Surface Failure Mechanisms Gary A. Cook Helen K Bailey
257	Innovation Pathways within Road Performance Management to Upgrade Investment Analysis: A Walkthrough of New Zealand and Philippine Resilience Landscapes Jessica Vien S Mandi Annisa Hasanah Theunis Henning
283	Innovative Pavement Contracts to Reduce CO₂-Emissions in Norway Even K. Sund Thor Asbjørn Lunaas

CONCURRENT TECHNICAL SESSION 3

Topic	Road Materials and Pavements Bearing Capacity
Day	#3, September 14 th
Time	09:00 a.m. – 11:00 a.m.
Room	AIDA
Sessions Chairs	Gianluca Cossale TBD

ID	title
330	The Choice of Appropriate Bituminous Seals and Substrates Combinations for Improved Performance of Road Pavements in Tropical Climates Andrew Otto Jasper Cook
216	Comparison of Bearing Capacity Measurements with the Traffic Speed Deflectometer (TSD) and Surface Characteristics on Intra-Urban Roads in Germany Barbara K. Esser Pahirangan Sivapatham Stefan Koppers
167	Improved Approach to Accelerated Ageing of Asphalt Samples in the Laboratory Greg White Ahmed Abouelsaad
364	Inductive Systems for Electric Vehicles: Optimization of the Charging Units Embedded into Road Pavement Claudia Nodari Misagh Ketabdari Maurizio Crispino Emanuele Toraldo
318	Evaluation of the Application of Tailing from Magnesite Extraction in Pavement by Adhesion Properties Mateus S. Brito Lilian Gondim Suelly Barroso
346	Experimental Analysis of Asphalt Concrete Modified with Polymeric Compounds Including Steel Slags as an Alternative to Basaltic Aggregates Gaetano Bosurgi Giovanni Bertino Augusto Ciarlitti Clara Celauro Matteo Fumagalli Orazio Pellegrino Alessia Ruggeri Giuseppe Sollazzo
174	Probe Vehicle Data as Input Source for Road Maintenance Björn Zachrisson Johan Hägg; Håkan Frank Johan Petersson Olle Noren

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 3

Topic	Maintenance and Preservation Treatments
Day	#3, September 14 th
Time	09:00 a.m. – 11:00 a.m.
Room	NORMA
Sessions Chairs	Margo Briessinck Maurizio Diomedi

ID	title
337	Software Application for Long-Term Monitoring and Assessment of Pavement Serviceability and Performance in Slovakia Zsolt Boros Norbert Dancs Filip Buček Zsolt Benkó
190	Pavement Maintenance Backlog - How to Calculate and Use in Decision-Making? Vesa Männistö
194	Review and Analysis of Prediction Models for As-built Roughness in Asphalt Overlay Rehabilitations Rodrigo Díaz José Ramón Marcobal Juan Gallego
292	Use of Traffic-Speed Ravelling Data for Resurfacing Intervention on Open Graded Asphalt Richard Wix Chloe Ip Lalinda Karunaratne
265	Design and On-Site Non-Destructive Testing Method for Evaluating Lifespan Asphalt Concrete Pavement with Traditional, Recycled and Material with Additives Stefano Oddone Stefano Drusin Luca Frezza Gianluca Salvatore Spinazzola Cristina Tozzo
269	Advanced Asphalt Pavements to Achieve Environmental Goals in Asset Management Alexander Buttgerit Daniel Gogolin Stefan Gomolluch Maria Koordt

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 3

Topic	Safety and Risk Issues
Day	#3, September 14 th
Time	09:00 a.m. – 11:00 a.m.
Room	TOSCA
Sessions Chairs	Vittorio Nicolosi TBD

ID	title
351	Evaluation of Road Safety Indicators Using Artificial Intelligence Case Study Brazilian Federal Highway BR-116 Rodovia Santos Dumont Fernanda O de Sousa
304	Improving the Criteria for Plans for Bridge Inspection Larysa Bodnar
267	Freeway Interchanges Maintenance Operations. Preliminary Safety Analysis of Connected Automated Vehicles Impact on Road Traffic Circulation Tullio Giuffrè Salvatore Curto Andrea Petralia
207	Skid Resistance and Braking Distance Revisited – The Case of Grinding Roland Spielhofer Matthias Hahn
352	Safety Aspects of E-Scooters in Urban Areas: Preliminary Results on Citizens' Perception, Users' Behavior and Role of Pavement Arianna Antoniazzi Elena Davoli Claudia Nodari Maurizio Crispino
181	A Risk Analysis in The Event of a Fire in a Twin-Tube Road Tunnel with Considerations for Resilience Ciro Caliendo Isidoro Russo Gianluca Genovese

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 3

Topic	Airport Pavements and Management
Day	#3, September 14 th
Time	09:00 a.m. – 11:00 a.m.
Room	MANON
Sessions Chairs	Monica Meocci TBD

ID	title
223	Aviation Risk Assessment: Analyzing the Critical Boundary Conditions that Can Affect the Risk of Runway-Related Accidents Misagh Ketabdari Claudia Nodari Maurizio Crispino Emanuele Toraldo
195	Assessment of Maintenance and Rehabilitation Strategies in Airport Pavement and Life Cycle Cost Rayssa de Sousa Carneiro Francisco Heber Lacerda de Oliveira
305	The Setting Up of Milan Airports' Pavement Management System Giacomo Ridondelli Riccardo Lamperti Maurizio Crispino Alessandro Marradi Jacopo Leonardi Marco Sclip Paolo Pasinetti
363	The Determination of the Status Indices of Airport Pavements by Using High-Performance Machines as a Tool for the Programming of Maintenance and Requalification Activities of the Italian Military Airfields Stefano Cimichella Aniello Corcione Claudio De Marchis Antonello Germinario
201	Towards Efficient Airfield Pavement Surface Condition Monitoring Using Deep Learning Models Ronald A. Roberts Fabien Menant Michael Broutin
252	Assessment of Roughness Limit Based in Vertical Acceleration of Aircraft on Runways Elisa Da Silva Sousa Lucas Moreira Magalhães Francisco Heber Lacerda De Oliveira

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 4

Topic	Pavement Condition Measures and Models
Day	#3, September 14 th
Time	11:30 a.m. – 01:30 p.m.
Room	AIDA
Sessions Chairs	Misagh Ketabdari TBD

ID	title
308	A Critical Review on Effect of Pavement Condition on Traffic Flow Characteristics Ashalakshmi V. M. Sivakumar M. Anjaneyulu Mvlr
321	A Deep Learning Approach to Detect and Characterize Potholes by Stereo Imaging Saif Eddine Amdouni Yossra Garbouj Amel Benazza Kaouther Machta
353	Indirect IRI Estimation Through Smart Tyre Technology Gabriele Montorio Massimiliano Sallusti Stefano Melzi Davide Chiola Federico Cheli Benedetto Carambia
358	E-PMS – Evolutive Pavement Management System. Overview on the Methodology Developed by Autostrade Per l'Italia (ASPI) Davide Chiola Benedetto Carambia Cristina Tozzo Nicoletta Gasbarro Paolo Spinelli
350	Human-centered Evaluation with Biosignals for Localized Surface Roughness on Expressway Pavements Kazuya Tomiyama Marei Inagi
175	Automation of PASER Condition Rating Through 3D Laser Scanning and Image Processing Richard G. Fox-Ivey John Laurent Nhat-Tan Nguyen
SP1	Wirtgen Group, latest developments of sustainable Cold Recycling Technology, experiences and job reports Mike Marshall Davide D'Onza

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 4

Topic	Pavement Surface Characteristics and Measures
Day	#3, September 14 th
Time	11:30 a.m. – 01:30 p.m.
Room	NORMA
Sessions Chairs	Claudia Nodari TBD

ID	title
206	A Correlation between Laser-based Device and Close-Range Photogrammetry Technique for Road Pavement Macrotecture Estimation Mauro D'Apuzzo Azzurra Evangelisti Giuseppe Cappelli Vittorio Nicolosi
217	Reference Calculations and Implementation of Mean Profile Depth Thomas Lundberg Ulf Sandberg Luc Goubert Wout Schwanen Robert Rasmussen
314	Evaluating the Feasibility of Convolutional Neural Networks in Detecting Cracks on Flexible Road Pavements Hermann U. Tapamo Anna S. Bosman James Maina Emile Horak
225	Two Methods for Sustainable and Safe Surface Textures for Pavements: Surface Treatment with Reactive Resins and Grinding) Tim Alte-Teigeler Martin Oeser
226	The Fundamental Characteristics of Sideway-Force Skid Resistance Measurement Devices Peter D. Sanders Cormac Browne Martin Greene Andrew Mumford
228	Reliability of Laser Measurements of Surface Macrotecture on Untrafficked Pavements Helen Viner Nathan Dhillon Alex Wright Nassera Thompson

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 4

Topic **Road Materials and Construction**
Day #3, September 14th
Time 11:30 a.m. – 01:30 p.m.
Room TOSCA
Sessions Chairs Patrick Mallejacq | Emanuele Toraldo

- | ID | title |
|-----|---|
| 203 | Medium to Long Term Stockpiling Performance of Bitumen Stabilised Materials (BSMs)
Niel N. Claassens Kim Jenkins |
| 204 | Optimization of Reinstating Drill Core Holes - Laboratory Investigation and Accelerated Pavement Testing
Tim Schroedter Pahirangan Slvapatham Stefan Koppers
Hartmut Beckedahl |
| 309 | Field Evaluation of Different Rollers Effect on the Compaction of Hot Mix Asphalt Overlays Using an Electromagnetic Densitometer
Rasool Fazeli Hamidreza Sahebzamani Omid Ferdosian |
| 242 | Winter Damage to Road Wearing Course
Heidi Kauffmann Pascal Rossigny |
| 255 | The Use of Rejuvenating Bio Emulsion From Soybean Oil in Recycled Aggregates for Chip Seals
Ataslina de Paula Silva Mateus S Brito Suelly Barroso
Caio Falcão Ronald William Antônia Uchôa Sandra Soares |
| 258 | Laboratory and Field Evaluation of Modified Microsurfacing to Improve Durability and Lowering Destructive Environmental Impacts
Rasool Fazeli Nader Mahmoodinia Hamidreza Sahebzamani
Masoud Mahmoodinia |

TECHNICAL SESSIONS

CONCURRENT TECHNICAL SESSION 4

Topic	Quality Assessment of Pavement Surface Layers
Day	#3, September 14 th
Time	11:30 a.m. – 01:30 p.m.
Room	MANON
Sessions Chairs	Ciro Caliendo TBD

ID	title
240	Characterising Texture in Hot Rolled Asphalt Pavement Surfaces Using 3D Modelling Techniques Raymond McGowan Brian Mulry Kieran Feighan Rory K. Donnellan
355	Experiences in the Use of Automatic 3-D Distress Evaluation System for Pavement Monitoring in Argentina Gustavo D. Mezzelani Franco Piazza
251	Are There New Ways to Improve the Surface Characteristics of Asphalt Mixtures? For Sure! By Functionalization Process Iran Rocha Segundo Cátia Afonso Orlando Lima Jr. Salmon Landi Jr. Elisabete F. Freitas Joaquim O. Carneiro
259	Alternative Methods of Road Condition Monitoring Berthold Best Helena Angerer
213	A Methodology to Assist in the Management of Friction Supply on the Irish National Road Network Emmanouil Kakouris Enda Burton Mark Tucker Ilaria Bernardini Tom Casey
297	Large Scale Noise Survey of the Walloon Road Network Using CPX Method: Second Measurement Campaign Anneleen Bergiers Sébastien Marcocci

POSTER SESSION

POSTER SESSION

Day #3, September 14th
Time 02:30 p.m. – 03:30 p.m.
Room NORMA

ID	title
191	Shrinkage Crack Induction for The Study of Repair Agents in Rigid Pavements Sebastian Lopez Gloria Beltran Henry Meneses Pedro F. B. Brandão
235	A Tree-based Machine Learning Approach to Predicting IRI and RSL on Thailand's Highways Network Theerada Rungruangjaroensuk Ponlathep Lertworawanich Rajwanlop Kumpoopong Wuttichai Amornprasitpol
198	Road Asset Management with a Mobile Game and Artificial Intelligence Markku M Knuuti Konsta Dr. Sirvio Vesa Männistö Susanna Suomela
202	Comprehensive Road Infrastructure Measurements – The Solution Towards Next Generation Sustainable Road Infrastructure Bjarne Schmidt Simon Tetley Verushka Balaram Jerome Daleiden
200	Sub-mm 3D Laser Imaging for Bridge Deck Safety Evaluation and AI Potentials with 3D Pavement Data Kelvin Wang Guangwei Yang Guolong Wang
209	Implementation of a Laboratory Design Method for Anti-slip Asphalt Pavements - FAPLAB Victor Garcia Rabadan Gloria Motos Cascales Jose Manuel Berenguer Prieto

POSTER
SESSION

ID	title
212	Development of New Method for Detecting Partial Deformation and Subsidence of Porous Asphalt Surface Layer and Examination of New Management Criteria Kiyohito Yamaguchi Ryo Kato
215	The Development and Validation of the World First SWF/LCMS Combination Iacopo Malquori Eelke Vromans
218	Pavement Friction Characterization with the Wehner & Schulze (W&S) Machine Donatien de Lesquen du Plessis Casso Julien Waligora Simon Pouget
220	Rutting Effects on Electrified Asphalt Roads Embedding Electric Vehicles Charging Units Claudia Nodari Maurizio Crispino Emanuele Toraldo
224	Airport Noise Emission: Models Comparison and Application on a Real Case Study Misagh Ketabdari Fazel Nasserzadeh Maurizio Crispino Emanuele Toraldo
236	Waste Plastic as Potential High Value Solution for Asphalt Road Applications Edoardo Bocci Tullio Caraffa Arianna Stimilli Maurizio Bocci
241	Road Pavement Surface Friction Index Contactless Stefano Oddone Stefano Drusin Gianluca Salvatore Spinazzola Cristina Tozzo
249	Transparent Communication and Improvement of Cycle Path Maintenance for an Increase in Bicycle Use Rainer Hess Carsten C. Mahnel Liliane Stein

POSTER SESSION

ID	title
254	The Use of Bio-Emulsion from Soybean Oil in Maintenance of Flexible Pavements Ataslina de Paula Silva Caio Falcã Mateus S. Brito Ellen Serra Suelly Barroso Ronald Williams Antônia Uchôa
266	Quality Evaluation Management System for Road Infrastructures Stefano Oddone Gianluca Cossale Luca Frezza Salvatore Gianluca La Placa Andrea Meo Bruno Scrudato Gianluca Salvatore Spinazzola Cristina Tozzo
275	The Relationship between Surface Defects and Structural Distress on A 50-year-old Japanese Toll Road Keizo Kamiya
279	Management of Pavement Surface at Curve Section Using by Real Time Traction Tool Kanakano Uchino Nobuya Okamoto Takahisa Fukushima Rei Fujita
282	Can the Increase in Roughness and Rutting be Attributed to Surface Cracking? Doug Brown
285	Comparison of Pavement Condition Mapping Systems Sara Anastasio Doreen Siebert Dagfin Gryteselv Trond Østen
289	Development and Implementation of a New Policy on the Management of Skid Resistance in Ireland Brian Mulry Rory K. Donnellan Raymond McGowan Stephen Smyth
293	Exhaustive Assessment of Asphalt Mixture Reinforcement with Waste Fibres Helena Miera-Dominguez Carlos Real-Gutierrez Teresa Pomposo-Perez Irune Indacochea-Vega Pedro Lastra-González Daniel Castro-Fresno

POSTER
SESSION

ID	title
302	Rejuvenating Agents vs Fluxing Agents: Their Respective Mechanisms of Action on a Binder Subjected to Multiple Aging Cycles Shahin Eskandarsefat Paolino Caputo Cesare Oliviero Rossi Michele Porto Valeria Loise Eugenia Giorno Shahin Eskandarsefat Loretta Venturini
310	How Modern Petrographic Analysis of Roadstone Aggregate Can Provide a Better Understanding of Their Frictional Properties Richard P. Unitt Patrick Meere Tom Casey Brian Mulry
312	New Procedure for Quality Assurance of Municipal Road Survey and Assessment Campaigns Christiane Krause Ulrich Pfeifer Markus Stöckner Ute Stöckner
322	A Prediction Model of the Coefficient of Friction for Runway Using Artificial Neural Networks Mariana Myszak Danilo Rinaldi Bisconsini Jorge Durán Jose L Fernandes Jr Lucas Moreira Magalhães José Breno Ferreira Quariguasi Francisco Heber Lacerda De Oliveira
327	Principles for Using Wearing Courses in Terms of Skid Resistance Pavla Nekulova Leos Nekula Josef Stryk
329	Estimation of Pavement Layer Moduli of Thin-Sealed Roads for use in Pavement Management Systems Christopher Ngwira Andrew Otto Presley Chilonda Chilukwa Nathan Andrew Mwale
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