

13th Malaysian Road Conference & Exhibition 2026 and 6th International Road Federation Global Asia-Pacific Regional Congress

Conference / Congress Programme (*subject to changes*)

DAY 1 : 13 OCTOBER 2026 (TUESDAY)	
	REGISTRATION
8.00 am	Venue: Foyer
	PLENARY SESSION
	Venue: Tun Hussein Onn
9:00 am	Plenary Session 1 Developing and Managing Road Infrastructure – Challenges and Readiness for Future Ready Roads Dato' Seri Azman Bin Ibrahim Secretary General Ministry of Works, Malaysia
9:30 am	Plenary Session 2 AI and the Future of Road Asset Management From Artificial Intelligence to Infrastructure Intelligence Glenn Brouwer IRF Asset Management Committee Member
10.00 am	Plenary Session 3 Nazir Alli Past President PIARC
10:30 am	Coffee break / Networking
	OPENING CEREMONY
10:45 am	Venue: Tun Hussein Onn
	• Welcoming Address by Dato' Sri Ir. Roslan Bin Ismail, President of Road Engineering Association of Malaysia • Address by YB. Dato Seri Alexander Nanta Linggi, Minister of Works, Malaysia • Official Opening of the Conference • Presentation of Road Engineering Excellence Award 2026
1:00 pm	Lunch
	Venue: Tun Razak 3 Hall

DAY 1 : 13 OCTOBER 2026 (TUESDAY)		
	PARALLEL SESSION 1	EXHIBITION Tun Razak 4
	Venue: Johor Kedah	
	TRANSPORTATION ENGINEERING Chairman : Prof. Khoo Hooi Ling	
2:00 pm	GUEST SPEAKER 1 Title : Transforming Pavement Technologies for Future Ready Roads. Presenter : Dr. Richard Yeo	
2:30 pm	Paper 1 Title : User Perception of Hard Shoulder Running (Smart Lane) Implementation in Malaysia: Implications for Safety and Operational Policy. Presenter : Nusayba Megat Johari	
2:50 pm	Paper 2 Title : Intelligent Transport System (ITS) Deployment and Future Applications in Malaysia - Challenges and Issues. Presenter : Dato' Sri Ir. Ismail Salleh	
3:10 pm	Paper 3 Title : A Framework for Evaluating Third-Party Access to Controlled-Access Highways: A Traffic Engineering Perspective. Presenter : Ir. Noorfakhriah Binti Yaakub	
3:30 pm	Paper 4 (IRF) Title : TyreGates: Infrastructure Based Tyre Monitoring for Fleet Safety and Operational Efficiency. Presenter : Kevin Prescott	
3:50 pm	Paper 5 Title : Assessing Readiness of AI-based Autonomous Shuttle Integration in Malaysia's First- and Last-Mile Transport Network. Presenter : Sathiaseelan A/L Perumal	
4:10 pm	Q&A Session	
4:40 pm	Session Closing	
	PARALLEL SESSION 2	
	Venue: Tun Dr Ismail Hall (TDI B)	
	PAVEMENT ENGINEERING Chairman : Prof. Dr. Meor Othman Hamzah	
2:00 pm	Paper 1 (IRF) Title : Laboratory-based Fatigue Performance and Cracking Potential of Municipal Solid Waste Incineration Fly Ash-Modified Asphalt Binders. Presenter : Krishna Prapoorna Biligiri	
2:20 pm	Paper 2 Title : Field Evaluation of Tensile Strength Ratio of Crumb Rubber Modified Asphalt for Long Term Performance Effectiveness in Malaysia. Presenter : Samsul Amir bin Jaharudin	
2:40 pm	Paper 3 Title : Re-Engineering Malaysian Pavement Durability: Integrating QASTALANI HiMA Binder Technology, Structural Design and Lifecycle Economics. Presenter : Garrick Choong	
3:00 pm	Paper 4 Title : Rutting, Moisture Susceptibility, Durability and Cost Savings of Natural Rubber Modified Asphalt (NRMA) With RAP. Presenter : Ir. Kamaruddin Bin Othman	

3:20 pm	Paper 5 Title : Development and research of a novel asphalt anti-sticking isolation agent. Presenter : Li Qinghua	
3:40 pm	Paper 6 Title : Advances in Research and Application of Rubberized Asphalt Technology in China. Presenter : Hongwei Chen	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 3	
	Venue: Perak Room	
	BRIDGE ENGINEERING Chairman : Dato' Ir. Dr. Abdul Aziz bin Arshad	
2:00 pm	GUEST SPEAKER 2 Title : Planning, Design and Construction of Sea Crossing Bridges. Presenter : Ir. Professor Naeem Hussain	
2:30 pm	Paper 1 Title : Evaluating the Safe Commuting of Exclusive Motorcycle Lanes (EMCL) for motorcycle riders using Exposure-Based Crash Analysis: A Case Study of Jambatan Sultan Abdul Halim Mu'adzam Shah. Presenter : Ts. Mohd Azahar Bin Awang	
2:50 pm	Paper 2 Title : Ultra-High-Performance Concrete (UHPC) Composite Bridge under Urban and Coastal Exposure Conditions: A Case Study of the Setiawangsa-Pantai Expressway Bridge, Malaysia. Presenter : Dr. Ng Hui-Teng	
3:10 pm	Paper 3 Title: Bridge Condition Assessment and Maintenance Prioritization Using Inspection Data in Malaysia. Speaker : Ahmad Shakirin Bin Muhamad Ruzlan	
3.30 pm	Paper 4 Title: Rapid Innovative Bridge System Through Precast Modular Block Construction. Presenter: Ir. Dr. Fairul Zahri Bin Mohamad Abas	
3:50 pm	Q&A Session	
4:20 pm	Session Closing	
	PARALLEL SESSION 4	
	Venue: Perlis Room	
	SMART TECHNOLOGY Chairman: IRF Representative	
2:00 pm	Paper 1 (IRF) Title: Reducing Motorcycle Risk in Malaysia Through AI-Powered Rider Assistance and Telematics: The Role of RideHawk™. Presenter : Richard Hanowski	
2:20 pm	Paper 2 Title : Smart Traffic Light Implementation in Malaysia: Policy Alignment and Cost–Benefit Analysis under ITS Roadmap 2030. Presenter : Ir. Mohd Fairuz Bin Mamat @ Muhamad	
2:40 pm	Paper 3 Title : Development and Implementation of an Autonomous Solar-Powered IoT Flood Early Warning System. Presenter : Prof. Ir. Dr. R. Badlishah Ahmad	

3:00 pm	Paper 4 Title: Comparative Analysis of VISSIM and SIDRA on Signalised Intersection at Tanjung Malim. Presenter : Ir. Nor Azilawati Binti Abu Talaha	
3:20 pm	Paper 5 Title : Pave-TM in Combination with Super-Ski: Practical Sensor-based Thickness Control for Improved Asphalt Pavement Quality. Presenter : Alexander Wahlmann	
3:40 pm	Paper 6 Title : A Mini Review of Autonomous Last-Mile Delivery Systems to Transform the Country Through Future Ready Roads. Presenter : Abdullah Alazemi	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 5	
	Venue: Pulau Pinang Room	
	ROAD FORENSIC ENGINEERING Chairman : IRF Representative	
2:00 pm	Paper 1 (IRF) Title : Sustainable Pavement Asset Management and Redesign: A Data-Informed Framework Integrating SEIA for Resilient Road Infrastructure. Presenter : Javed Bari	
2:20 pm	Paper 2 Title : Structural Integrity and Serviceability Evaluation of Bridges Using Ambient Vibration Testing. Presenter : Ir. Ts. Gs. Mohammad Hafizi Bin Ghazali	
2:40 pm	Paper 3 Title : Developing a Classification Framework for Culvert-Associated Road Failures in Malaysia Through Comparative Analysis of Forensic Investigation Cases. Presenter : Ir. Ts. Leong Geok Teng	
3:00 pm	Paper 4 Title : Integration of Electrical Resistivity Tomography (ERT) and Geotechnical Methods for Subgrade Failure Investigation: A Case Study of Recurrent Road Damage in Malaysia. Presenter : Romziah Binti Azit	
3:20 pm	Paper 5 Title : Interpreting Pavement Condition Assessment Results for Riding Performance and Driving Mode Screening: A Case Study of FT003, Malaysia. Presenter : Anuar Adamuddin	
3:40 pm	Q&A Session	
4:10 pm	Session Closing	
	PARALLEL SESSION 6	
	Venue: Kelantan Room	
	ENVIRONMENT & SUSTAINABILITY Chairman: Satpal Singh a/l Dadar Singh	
2:00 pm	Paper 1 Title: Role of Functional Additives in the Storage Stability and High-Temperature Behaviour of SBS/rHDPE-Modified Bituminous Binders. Presenter : Xingchi Wu	

2:20 pm	Paper 2 Title : Cost-Effectiveness of Geosynthetic Infrastructure Solutions Driven by ESG Practices. Presenter : Khoo Cheng May	
2:40 pm	Paper 3 Title: Utilization of Ceramic Sludge Waste (CSW) as a Potential Mineral Filler (MF) in Hot Mix Asphalt (HMA). Presenter : Ir. Ts. Hidra Hasbee Bin Jamil	
3:00 pm	Paper 4 Title : Advancing Sustainable Pavements: Warm Mix Asphalt ACWC20 with 30% RAP Using GTL-Based Saraphalt Additive. Presenter : Cham Peir Jer	
3:20 pm	Paper 5 Title : A Case Study on Advancing Towards Net Zero Through Operational Excellence: Insights from PLUS Malaysia Berhad. Presenter : Ts. Mohd Rosnizam Zailan	
3:40 pm	Paper 6 Title: Evaluation of Food Waste-Derived Organic Compost Fertilizer for Sustainable Landscape Management at PLUS RSA and Lay-by. Presenter : Nursyazwani Abd Rashid	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 7	
	Venue: Melaka Room	
	SLOPE & GEOTECHNICAL ENGINEERING Chairman: Dato' Ir Dr Gue See Sew	
2:00 pm	Paper 1 Title: Debris Flow: PWD Malaysia's Experience in Road Infrastructure Protection. Presenter : Dr. Mohamad Niizar Bin Abdurahman	
2:20 pm	Paper 2 Title : Field Implementation of an Automated Distributed Fibre Optic Sensing System for Real-Time Landslide Monitoring. Presenter : Ir. Ts. Muhammad Farid Bin Ghazali	
2:40 pm	Paper 3 Title : In-Situ Evaluation of Shaft Friction and End Bearing Resistance of Large Diameter Caisson Foundations Using Ring Friction and Plate Bearing Tests. Presenter : Ir. Ts. Mohd Hafiz Bin Shafie	
3:00 pm	Paper 4 Title : Performance Evaluation of High Impact Energy Dynamic Compaction for Engineered Fill Platforms Using Plate Bearing and Mackintosh Probe Tests in Malaysian Soil Conditions. Presenter : Ir. Qusanssori Noor Bin Rusli	
3:20 pm	Paper 5 Title : Historical Rainfall Variability and Road Slope Failure: A Hydro-Mechanical Back Analysis Of The 2025 Sabah Landslide Disaster. Presenter: Ir. Ts. Dr. Edgar Jr. Joe	
3:40 pm	Q&A Session	
4:10 pm	Session Closing	

	IRF EXECUTIVE SESSION 1	
	Venue: Pahang Room	
	STRATEGIC ASSET MANAGEMENT & AI-ENABLED MONITORING Chairman : IRF Representative	
2:00 pm	Paper 1 Title : Interpreting Pavement Condition Assessment (PCA) Indicators for Riding Performance and Driving Mode: Implications for Connected, Automated, and IoT-Enabled Road Transport. Presenter : Anuar Adamuddin Paper 2 Title : Improving Pavement Asset Management Through Integration of AI-Based Functional Assessment and Structural Evaluation. Presenter : Ahmad Ashraf Alauddin Paper 3 Title : SAHEL: Scalable Road Condition Monitoring for Diverse Networks Using Rugged Vehicle-Based SeKevin Prescottnsing. Presenter : Kevin Prescott Paper 4 Title : Implementation of a Lifecycle-based Maintenance and Inspection Management System for Traffic Facilities in Kaohsiung City Presenter : Po-Yen Yu Paper 5 Title: Construction of an Intelligent Highway Traffic Data Analytics Platform: From Multi-Source Data Integration to Value-Added Monitoring Dashboards Presenter :Hsu Chih-Ling	
3:30 pm	Q&A Session & Session Closing	
	IRF EXECUTIVE SESSION 2	
	Venue: Pahang Room	
	ROAD SAFETY EXCELLENCE, INCLUSIVE MOBILITY & VISION ZERO Chairman: IRF Representative	
3:45 pm	Paper 1 Title : Reducing Motorcycle Risk in Malaysia Through AI-Powered Rider Assistance and Telematics: The Role of RideHawk™ Presenter : Richard Hanowski Paper 2 Title : Delivering Sustainable Development (Transport & Mobility-place): Safer Roads Culture – Speed Paradigm Renewal Presenter : Alan Thien Len Wong Paper 3 Title : TyreGates: Infrastructure Based Tyre Monitoring for Fleet Safety and Operational Efficiency Presenter : Kevin Prescott Paper 4 Title : Bridge width and approach roadway width impact on safety Presenter : Aemal Khattak Paper 5 Title: Assessing Socio-Economic Transformation and Inclusive Rural Connectivity through Community Road Development in Bangladesh: A Case Study of the Bitghar Hat–Brahmanbaria Corridor Presenter : Javed Bari Paper 6 Title : A Review of the Environmental Sustainability Implications of Autonomous Vehicles in Developing Countries Presenter : Muhammad Shan Khalid	

5:15 pm	Q&A Session & Session Closing	
	Refreshment	
	End of Day 1	

DAY 2 : 14 OCTOBER 2026 (WEDNESDAY)		
	REGISTRATION	
8.00 am	Venue: Foyer	
	PLENARY SESSION	
	Venue: Tun Hussein Onn	
8:30 am	Plenary Session 4 Future-Ready Road Asset Management In Malaysia: Strategies for Sustainable Road Maintenance Dato' Ir. Ibrahim Bin Esa Director General, Public Works Department, Malaysia	
9:00 am	Plenary Session 5 Driving the Future: Malaysia's Transformation Towards Smart Highways Ir. Mohd Hadzmir Bin Yusoff Director General, Malaysian Highway Authority	
9:30 am	Plenary Session 6 Connecting the Nation: Smart, Sustainable and Beyond Datuk Nik Airina Binti Nik Jaffar Managing Director, PLUS Malaysia Berhad	
10:00 am	Coffee break / Networking	
	PARALLEL SESSION 8	EXHIBITION Tun Razak 4
	Venue: Tun Dr Ismail Hall (TDI B)	
	PAVEMENT ENGINEERING Chairman : IRF Representative	
10:20 am	GUEST SPEAKER 3 Title: Pavement Engineering Presenter : Dr. Rongji Cao	
10:50 am	Paper 1 Title : Effectiveness of Warm Mix Asphalt at Pavement Service Temperature. Presenter : Prof Ir. Dr. Ratnasamy A/L Muniandy	
11:10 am	Paper 2 Title : Performance Evaluation of Pavement Rehabilitation Using IRI and FWD Indicator. Presenter : Muhammad Qayyim Bin Suhaimi	
11:30 am	Paper 3 Title : High-Modulus Asphalt Pavement Technology in China: Research Progress, Standardization, and Future Perspectives. Presenter : Chao Han	
11:50 am	Paper 4 Title : Development of Individual Functional Pavement Indices for Pavement Condition Assessment. Presenter : Ts. Nur Faezah Binti Yahya	
12:10 pm	Paper 5 (IRF) Title : A Comparative Study on Laboratory UV Aging, Natural Exposure Aging, and PAV Aging of VG-40. Presenter : Adyasha Mohanty	
12:30 pm	Q&A Session	
01:00 pm	Session Closing	

	PARALLEL SESSION 9	
	Venue: Perak Room	
	HIGHWAY ENGINEERING Chairman: Prof. Madya Dr. Fauzan Bin Mohd Jakarni	
10:20 am	Paper 1 (IRF) Title : Construction of an Intelligent Highway Traffic Data Analytics Platform: From Multi-Source Data Integration to Value-Added Monitoring Dashboards. Presenter : Hsu Chih-Ling	
10:40 am	Paper 2 Title : Evaluating Multi-Speed Deflectometer (MSD) as a Continuous Alternative to Conventional Structural Testing on PLUS Expressways. Presenter : Ts. Siti Afzakaswani Binti Ahmad Farouk	
11:00 am	Paper 3 (IRF) Title : SAHEL: Scalable Road Condition Monitoring for Diverse Networks Using Rugged Vehicle-Based Sensing. Presenter : Kevin Prescott	
11:20 am	Paper 4 Title : The Use of Rubberized Fiber Mixtures to Reduce Noise on Highways Kerinchi Link, Kuala Lumpur, Malaysia. Presenter : Ir. Dr. Shakor Ramat Bin A. Badaruddin	
11:40 pm	Q&A Session	
12:10 pm	Session Closing	
	PARALLEL SESSION 10	
	Venue: Perlis Room	
	SLOPE & GEOTECHNICAL ENGINEERING Chairman : IRF Representative	
10:20 am	Paper 1 Title : Riverbank Erosion as An Underlying Hazard Contributing to Occupational Accidents in Bridge Construction at Sg Air Tawar, Selangor: A Mangrove Based Risk Control Case Study. Presenter : Ir. Dr. Hj. Ahmad Shukri Bin Hj. Abd Rashid	
10:40 am	Paper 2 Title : Application of High Impact Energy Dynamic Compaction (HIEDYC) for Foundation Improvement of Reinforced Earth (RE) Wall on Saturated Ground at Bandar Enstek, Negeri Sembilan. Presenter : Iradatul Hanis Binti Abd Hamid	
11:00 am	Paper 3 Title : Early Detection of Potential Debris Flow from Weathered Granitic Slopes: Correlating UAV Inspection, Geospatial Analysis and Rainfall Data (Gunung Chante — KM303.0 SB, NSE, Malaysia) Presenter : P. Geol. Ts. Abdul Qayyum Bin Jalal	
11:20 am	Paper 4 Title : Acid Mine Drainage-Enhanced Internal Erosion as A Mechanism of Subsidence in A Tropical Highway Embankment: An ERT-Based Forensic Case Study from KM362.8, Pan Borneo Highway, Sarawak, Malaysia Presenter : Br. Dr Hj Azrin Ahmad	
11:40 am	Q&A Session	
12:10 pm	Session Closing	

	PARALLEL SESSION 11	EXHIBITION Tun Razak 4
	Venue: Pulau Pinang Room	
	ROAD SAFETY Chairman: Prof. Madya Ts. Dr. Siti Zaharah Binti Ishak	
10:20 am	Paper 1 (IRF) Title : Data-Driven Identification of High-Risk Intersections in Chattogram: A Practical Framework for Urban Road Safety Improvement. Presenter : Javed Bari	
10:40 am	Paper 2 Title : A Comprehensive Evaluation of Integrated Motorcycle Safety Countermeasures: A Multi-Dimensional Approach to Fatality Reduction in Malaysia. Presenter : Ir. Ts. Dr. Muhammad Marizwan Bin Hj. Abdul Manan	
11:00 am	Paper 3 Title : A Case Study on the Movement of Pavement Milling Waste Lorries During Entry and Exit Lane Closures to Prevent Accidents with Highway Users. Presenter : Ir. Ts. Muhamad Hafiz Bin Abdul Rahim	
11:20 am	Paper 4 Title : Road Safety Improvement in Malaysia and the Asia-Pacific Region Through MASH and EN 1317 Crash-Tested Interlocked Precast Concrete Barriers. Presenter : Ir. Olivier Keutgen	
11:40 am	Paper 5 Title : Safer Commuting for Motorcycle Riders: Investigating the Relationship Between Road Environmental Factors and Motorcycle Crash Injury Severity. Presenter : Lilis Surienty Abd Talib	
12:00 pm	Q&A Session	
12:30 pm	Session Closing	
	PARALLEL SESSION 12	
	Venue: Kelantan Room	
	BRIDGE ENGINEERING Chairman : Ir. K. Sundraraj	
10:20 am	Paper 1 Title: Field Implementation and Performance of UHPC Link Slabs in Malaysia. Presenter : Dr Milad Hafezolghorani Esfahani	
10:40 am	Paper 2 Title : Design and Construction of Precast Segmental Long Span Girder Bridge. Presenter : Ir. Nur Syahidah Binti Jamaludin	
11:00 am	Paper 3 Title : Enhancing Structural Integrity of Penang Bridge Stay Cables Via Advanced Real-Time Structure Health Monitoring System (SHMS). Presenter : Ir. Ts. Azrul Md Din	
11:20 am	Paper 4 Title : Assessment of Transmission Length in Prestressed Concrete Beams: Effects of Hooked End Steel Fiber Type and Reinforcement with Comparison to Design Code Predictions. Presenter : Ibrahim Magira Tom	
11:40 am	Paper 5 (IRF) Title : Bridge width and approach roadway width impact on safety. Presenter : Aemal Khattak	
12:00 pm	Q&A Session	

12:30 pm	Session Closing	
	PARALLEL SESSION 13	
	Venue: Melaka Room	
	SMART TECHNOLOGY Chairman: Prof. Ir. Ts. Dr. Che Khairil Izam Bin Che Ibrahim	
10:20 am	GUEST SPEAKER 4 Title: Autonomous vehicles. Presenter : Randy Iwasaki	
10:50 am	Paper 1 (IRF) Title : A Stochastic Axle Overloading Prediction Framework for Pavement Maintenance Management: A Network Level Approach. Presenter : Ehitabezahu Nigussie Mekonnen	
11:10 am	Paper 2 Title : From Data to Decisions: Leveraging Twinsights Command Centre and AI for the Next Generation of Malaysia's Road Infrastructure Management. Presenter : Dionnald Beh	
11:30 am	Paper 3 (IRF) Title : Kaohsiung Smart Dashboard for Large-Scale Event Monitoring and Management: An Application Results Report. Presenter : Po-Cheng Tsui	
11:50 am	Paper 4 Title : A Data-Driven Workflow for Road Corridor Mapping and Construction Integration Using Mobile LiDAR and Trimble Solutions. Presenter : Lim Chin Hooi	
12:10 pm	Paper 5 Title : From Energy Crisis to Pavement Resilience: Integrating AI-Based Road Monitoring and HiMA Thin Pavement Design for Sustainable Malaysian Roads. Presenter : Garrick Choong	
12:30 pm	Q&A Session	
1:00 pm	Session Closing	

	REAM WORKSHOP SESSION 1	EXHIBITION Tun Razak 4
	Venue: Tun Dr Ismail Hall (TDI A)	
10:45 am	Opening speech by Ir. Mohd Shahrom Bin Ahmad Saman, Road Engineering Association of Malaysia Technology Group Chairman Introduction by Chairperson/ Moderator: Ir. Som Phong A/L Pichan Presentation of Technical Document : Good Practice To Determine Hard Mass And Rock Mass For Excavation (TC05 - Geotechnics) Presenter : Ir. Nor Fardzilah Binti Abdul Rahman	
11:35 am	Q&A Session / Technical Discussion	
12:30 pm	Certificate and token presentation.	
12:35 pm	End of Session 1	
	YOUNG ENGINEERS AND PROFESSIONALS (YEP) SESSION 1	
	Venue: Johor Kedah Room	
	Chairman : Ir. Muhamad Uzed Bin Mahmud	
8:45 am	Opening Remarks	
9:15 am	Presentation by Top 5 Finalists (Session 1) - Road Infrastructure Application Development Competition - Focus Area: Generative AI Applications for Infrastructure	
10:30 am	Tea Break	
11:00 am	Presentation (Session 2) & Award Ceremony - Continuation of Finalist Presentation - Grand Finale: Announcement of Winners & Prize Giving	
1:00 pm	End of Session 1	
	IRF EXECUTIVE SESSION 3	
	Venue: Pahang Room	
	ADVANCED MATERIALS, GREEN PAVEMENTS & SUSTAINABLE CONSTRUCTION Chairman : IRF Representative	
9:00 am	Title : Roller Compacted Concrete Containing Recycled Materials: Fatigue Life and Performance Presenter : Alabbas Alhazmi Title : Laboratory-based Fatigue Performance and Cracking Potential of Municipal Solid Waste Incineration Fly Ash-Modified Asphalt Binders Presenter : Krishna Prapoorna Biligiri Title : Sustainable Pavement Application of Warm Mix Rubberized Asphalt Concrete Incorporatin Presenter : Li-Ling Huang Title : A Comparative Study on Laboratory UV Aging, Natural Exposure Aging, and PAV Aging of VG-40 Presenter : Adyasha Mohanty	
10.30 am	Q&A Session & Session Closing	
	IRF EXECUTIVE SPECIAL SESSION	
	Venue: Pahang Room	
	SMART TECHNOLOGIES FOR ROAD SAFETY AND INFRASTRUCTURE MANAGEMENT – INHA UNIVERSITY CONSORTIUM Chairman : IRF Representative	
10.45 am	Title : Field Demonstration Framework for an External Magnetization EM Sensing System for Non-Destructive Tendon Diagnosis in Aging PSC Bridges Presenter : Kang-In Lee	

	Title : Development of an External Magnetization EM Sensing System for Non-Destructive Tendon Tension Assessment in Aging PSC Bridges Presenter : Minkyoo Youm	
	Title : A Dual-Track Platform Architecture for Commercial Sustainability in Winter Road Safety Systems Presenter : Taeheon Kim	
	Title : A Study on Real-Time Road Weather Information Collection Using Mobile Road Condition Monitoring Technology Presenter : Seong-In Kang	
	Title : BIM-GIS Assessment of a Road Facility Network under Mainshock-Aftershock Sequences and Deterioration Presenter : Soo-Young Park	
	Title : Data-Driven Black Ice Prediction across Road Segments Using Integrated Weather and Field Observations Presenter : Seung-Ji Noh	
12.50 pm	Q&A Session & Session Closing	
1:00 pm	Lunch	
	Venue: Tun Razak 3 Hall	

DAY 2 : 14 OCTOBER 2026 (WEDNESDAY)		
	PARALLEL SESSION 14	EXHIBITION Tun Razak 4
	Venue: Tun Dr Ismail Hall (TDI B)	
	PAVEMENT ENGINEERING Chairman : Prof Ir. Dr. Ratnasamy A/L Muniandy	
2:00 pm	Paper 1 (IRF) Title: Modeling Fatigue Life of Incineration-Based Fly Ash-Modified Asphalt Pavement Systems: Laboratory-based Performance Criterion Development. Presenter : Krishna Prapoorna Biligiri	
2:20 pm	Paper 2 Title: Multi-Scale Characterization and Fuel Resistance of Super Fiber Mix-Full Reinforcement (SFM-FR+) for Asphalt Pavements. Presenter : Aina Salahuddin	
2:40 pm	Paper 3 (IRF) Title : Roller Compacted Concrete Containing Recycled Materials: Fatigue Life and Performance. Presenter : Alabbaas Alhazmi	
3:00 pm	Paper 4 Title: Development and Application of Durable and Maintenance-Free Noise-Reducing Asphalt Pavement. Presenter : Fengwei An	
3:20 pm	Paper 5 Title: Influence of Waste Soda-Lime Glass Filler Micro-Angularity on the Resilient Modulus of Fine-Aggregate Mastic Mixtures. Presenter : Ganesh A/L Pillaiyan	
3:40 pm	Paper 6 Title: Performance Evaluation and Field Application of a Polyurethane–Steel Slag Ultra-Thin Skid-Resistant Surfacing. Presenter : Jinyu Xu	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 15	
	Venue: Perak Room	
	ASSET MANAGEMENT Chairman: Ir. Sharifah Azlina Binti Raja Kamal Pasmah	
2:00 pm	Paper 1 (IRF) Title: Implementation of a Lifecycle-based Maintenance and Inspection Management System for Traffic Facilities in Kaohsiung City. Presenter : Po-Yen Yu	
2:20 pm	Paper 2 Title : Final Evaluation of the Performance-Based Contract For Routes FT001, FT003, And FT005 (Southern Zone, Malaysia). Presenter : Ir. Ts. Chandiramohan A/L Ranjithan	
2:40 pm	Paper 3 Title : Enhancing Highway User Expectation Through Inclusive of Prayer Room Design at Laybys: A PLUS Highway Initiative. Presenter : Ts. Mohamad Rifa'i Bin Mohamad Adini	
3:00 pm	Paper 4 Title : Understanding Stakeholder- Risk Dynamics in Road Infrastructure Projects: A Risk Attribute Perspective. Presenter : Ir. Mohamad Amir Bin Jusoh	

3:20 pm	Paper 5 Title : From Design Capacity to Lifecycle Performance: Rethinking Urban Flood Mitigation Under Asset Degradation. Presenter : Ir. Br. Noor Iza Binti Bahari	
3:40 pm	Paper 6 Title : Twelve-Month Post-Construction Performance of Full Depth Reclamation Using Bitumen Emulsion (FDR-E): Proof-of-Concept Field Trial on Malaysian Highway. Presenter : Mohd Azli Ayob	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 16	
	Venue: Perlis Room	
	ENVIRONMENT & SUSTAINABILITY Chairman: Dato' Ir. Haji Zulakmal Bin Haji Sufian	
2:00 pm	Paper 1 Title : Latex Bonding Effect with Recycled Plastic to Optimize Performance of Asphalt Mixture. Presenter : Liew Pei Wen	
2:20 pm	Paper 2 Title : Sustainable and Impact-Resilient Greenguard Precast Concrete Barrier for Malaysia's Highway Infrastructure. Presenter : Noor Mohd Hazeem Bin Halin	
2:40 pm	Paper 3 Title : Feasibility of Waste Plastic Modified Asphaltic Mix For New Pavement Constructions in Malaysia. Presenter : Ir. Dr. Hj. Ahmad Shukri Bin Hj. Abd Rashid	
3:00 pm	Paper 4 Title : Characterization of Waste Engine Oil Modified Bitumen based on Physical and Rheological Properties. Presenter : Raza Mehmood	
3:20 pm	Paper 5 Title : Recycled Plastic Modified Bitumen for Sustainable Road Construction: A Case Study on A Trial Road in Pahang Malaysia with Critical Factors. Presenter : Ir. Phoon Chee Hoe	
3:40 pm	Paper 6 Title : The Impact of Energy Poverty Factors on the Academic Performance of University Students in Klang Valley. Presenter : Hanis Naimi Binti Hasli	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 17	
	Venue: Pulau Pinang Room	
	SMART TECHNOLOGY Chairman: Prof. Ir. Dr. Raizal Saifulnaz Bin Muhammad Rashid	
2:00 pm	Paper 1 Title : Conceptual Design of a Distributed Acoustic Sensing-Based Vehicle Weight Monitoring Framework for Smart Road Infrastructure. Presenter : Muhammad Yusoff Bin Mohd Nasir	
2:20 pm	Paper 2 Title : Comparative Analysis of Actual and Simulated Traffic Volume Using VISSIM on Signalized Intersection. Presenter : Ir. Ts. Dr. Abdul Razak Bin Ali	

2:40 pm	Paper 3 Title : Understanding Parking Reservation Adoption and Electric Vehicle User Charging Behaviour Using a Bayesian Approach. Presenter : Prof. Ir. Dr. Khoo Hooi Ling	
3:00 pm	Paper 4 Title : A Data-Driven Speed-Flow-Density (S-F-D) Model for Intra-Urban Expressways Using Advanced Radar Technology. Presenter : Syed Khairi Syed Abbas	
3:20 pm	Paper 5 Title : Road User Charges – Mobility Transformation and Evolution of Infrastructure Funding Framework. Presenter : Ir. Lee Choy Hin	
3:40 pm	Paper 6 (IRF) Title : From Paper to Platform: Sovereign Digital Governance for Freight in Syria. Presenter : Raya Arafat	
4:00 pm	Q&A Session	
4:30 pm	Session Closing	
	PARALLEL SESSION 18	
	Venue: Kelantan Room	
	ROAD FORENSIC ENGINEERING Chairman: Dr. Suhana Binti Koting	
2:00 pm	Paper 1 (IRF) Title : Improving Pavement Asset Management Through Integration of AI-Based Functional Assessment and Structural Evaluation. Presenter : Ahmad Ashraf Alauddin	
2:20 pm	Paper 2 Title : Laboratory Investigation of the Combined Recycled Plastic Waste Addition on Mechanical Properties of Stone Mastic Asphalt. Presenter : Christian Hadhinata	
2:40 pm	Paper 3 Title : Foamed Bitumen Full Depth Reclamation for Rapid Rehabilitation: A Comparative Study of Early-Life and Time-Dependent Performance. Presenter : Ts. Azmil Zakaria	
3:00 pm	Paper 4 Title : Enhancing Functional and Structural Performance of Damaged Composite Pavements in Meru Tunnel, Section N5 Using Fiber Reinforced Asphalt Overlays and Sub-Surface Drainage Improvement. Presenter : Mohd Zamir Mohd Zoraini	
3:20 pm	Q&A Session	
3:50 pm	Session Closing	
	PARALLEL SESSION 19	
	Venue: Melaka Room	
	ROAD SAFETY Chairman: Ir. Dr. Mohd Rasdan Ibrahim	
2:00 pm	Paper 1 Title : Enhancing Road Safety in Malaysia through the Road Accident Management System Malaysia (RAMS). Presenter : Ir. Ts. Mohd Fairuz Bin Jamal	
2:20 pm	Paper 2 (IRF) Title : Delivering Sustainable Development (Transport & Mobility-place): Safer Roads Culture – Speed Paradigm Renewal Presenter : Alan Thien Len Wong	

2:40 pm	Paper 3 Title : Spatial Analysis of Traffic Risk Using GIS for Road Hazard Mapping. Presenter : Imran Amin Farid	
3:00 pm	Paper 4 Title : Expressway Safety Enhancement: Proof of Concept for Greenguard, The TL-5 Precast Concrete Median Barrier on PLUS Expressway. Presenter : Rino Effendy Abu Haris	
3:20 pm	Paper 5 Title : An Initial Expert Judgement Approach for Developing a Safe Intersection Road Design Index in Malaysia. Presenter : Ir. Raja Nurulhaiza Binti Raja Nhari	
3:40 pm	Q&A Session	
4:10 pm	Session Closing	

	REAM WORKSHOP SESSION 2	EXHIBITION Tun Razak 4
	Venue: Tun Dr Ismail Hall (TDI A)	
2:00 pm	Introduction by Chairperson/ Moderator: Ir. Ts. Dr. Hj. Mohd Khairolden Bin Hj Ghani	
2:10 pm	Presentation of Technical Document : Good Practice For Dewatering In Road Works (TC06 – Drainage) Presenter : Ir. Siti Norleha Binti Rasid	
2:40 pm	Q&A Session / Technical Discussion	
3:25 pm	Introduction by Chairperson/ Moderator	
3:30 pm	Presentation of Technical Document : Good Practice In Application Of Road Marking (TC09 – Road Maintenance and Asset Management) Presenter : Ir. Azura Hanim Binti Sulaiman, Ir. Ts. Muhammad Syakir, Wong Thien Choy	
4:00 pm	Q&A Session / Technical Discussion	
4:50 pm	Closing speech by Sr. Ahmad Farrin, Chairman of Workshop Committee	
5:00 pm	Certificate and token presentation	
5:10 pm	End of Session 2	
	YOUNG ENGINEERS AND PROFESSIONALS (YEP) SESSION 2	
	Venue: Johor Kedah Room	
	Chairman : Ir. Muhamad Uzed Bin Mahmud	
2:00 pm	Special Talk: AI in Road Engineering - Speaker: TPr Dr. Muhammad Hakimi Bin Mohd Hussain	
4:00 pm	End of Programme & Adjournment	
	IRF EXECUTIVE SESSION 5	
	Venue: Pahang Room	
	DATA-DRIVEN ASSET MANAGEMENT, DIGITAL TWINS & FREIGHT GOVERNANCE Chairman : IRF Representative	
1:30 pm	Title : Sustainable Pavement Asset Management and Redesign: A Data-Informed Framework Integrating SEIA for Resilient Road Infrastructure Presenter : Javed Bari	
	Title : From Paper to Platform: Sovereign Digital Governance for Freight in Syria Presenter : Raya Arafat	
	Title : A Stochastic Axle Overloading Prediction Framework for Pavement Maintenance Management: A Network Level Approach Presenter : Ehitabezahu Nigussie Mekonnen	
	Title : Kaohsiung Smart Dashboard for Large-Scale Event Monitoring and Management: An Application Results Report Presenter : Po-Cheng Tsui	
	Title : Critical Success Factors for VSM–BIM Integration in Road Design: A Systematic Review Presenter : Andy Faizal Sahapadin	
	Title : Delivering Socio-Environmental Sustainability in Road Upgrading: A Community-Centric Implementation Framework from Bangladesh Presenter : Javed Bari	
3:00 pm	Q&A Session & Session Closing	

	IRF EXECUTIVE SESSION 6	
	Venue: Pahang Room	
	CROSS-CUTTING INNOVATIONS: TELEMATICS, RESILIENCE & SMART SYSTEMS Chairman : IRF Representative	
3:15 pm	Title : TaaSchen: A Scalable Driver Competency System for Commercial Fleets Using Monitoring, Interpretation, and Targeted Training Presenter : Kevin Prescott	
	Title : Balancing Safety and Security in Rural Roads: A Sustainable, Context-Responsive Improvement Framework from Bangladesh Presenter : Javed Bari	
4:45 pm	Q&A Session & Session Closing	
5:00 pm	Refreshment	
	End of Day 2	

DAY 3 : 15 OCTOBER 2026 (THURSDAY)		
	REGISTRATION	
8.00 am	Venue: Foyer	
	PARALLEL SESSION 20	EXHIBITION Tun Razak 4
	Venue: Tun Dr Ismail Hall (TDI B)	
	PAVEMENT ENGINEERING Chairman : Dr. Md. Yunus bin Ab. Wahab	
8:30 am	Paper 1 Title : Mechanistic-Empirical Design of Flexible Pavement Incorporating Fibre Mastic Asphalt (FMA) with Parametric Analysis of Key Influencing Factors. Presenter : Nur Atiqah Halim	
8:50 am	Paper 2 Title : Bond Strength Failure Mechanism and Performance Trends of Compacted Asphalt Mixture Under Moisture Effect. Presenter : Ir. Diana Humaira Binti Luke Embah	
9:10 am	Paper 3 Title : Strategic Selection of Plastomer and Elastomer Modified Asphalt for Future-Ready Pavements in Malaysia. Presenter : Ir. Norliza Binti Abdullah	
9:30 am	Paper 4 Title: Enhancing Modified Asphalt Performance Using Benzophenone-Zinc Layered Hydroxide (BZLH) Nanocomposite: A Pavement Engineering Approach. Presenter : Ts. Dr. Herda Yati Binti Katman	
9:50 am	Q&A Session	
10:05 am	Session Closing	
	PARALLEL SESSION 21	
	Venue: Perak Room	
	ROAD FORENSIC ENGINEERING Chairman: Prof. Madya Dr. Izni Syahrizal Bin Ibrahim	
8:30 am	Paper 1 Title : Advancing Sustainable Construction Using GFRP Reinforcement in Structure & Infrastructure Applications. Presenter : Huang Mei Si	
8:50 am	Paper 2 Title : Life-Cycle Assessment of Fiber-Reinforced Asphalt Pavement: A Case Study of Improved Durability and Reduced Carbon Emissions. Presenter : Nurul Nadiah Zakaria	
9:10 am	Paper 3 Title : Acoustical and Microstructural Properties of Porous Asphalt Used in Malaysian Roadways. Presenter : Zulhakim Bin Ab Aziz	
9:30 am	Paper 4 Title : Full Depth Reclamation Using Polymer-Modified Cementitious Stabilisation for Soft Ground Pavement Rehabilitation: Field Performance and Preliminary Mechanistic Characterisation. Presenter : Ir. Khairul Anuar Ahmad Affandi	
9:50 am	Q&A Session	
10:05 am	Session Closing	

	PARALLEL SESSION 22	
	Venue: Perlis Room	
	SLOPE & GEOTECHNICAL ENGINEERING Chairman: Ir. Dr. Low Tian Huat	
8:30 am	Paper 1 Title : Advanced Moisture Management in Pavement Systems: A Review Integrating Wicking Geotextiles for Future Infrastructure. Presenter : Dantes Siow Kaei Te	
8:50 am	Paper 2 Title : UAV-Based Automated Slope Defect Detection for Highway Asset Management: A Case Study on PLUS Highway. Presenter : Nurul Atiqah Asram	
9:10 am	Paper 3 Title : Coupling Advanced Geospatial Data Analytics and Deep Learning for Landslide Hazard Assessment Along a Highway Corridor in a Geologically Challenging Environment. Presenter : P.Geol. Mohamad Faruq Syahmi Bin Md Aripin	
9:30 am	Q&A Session	
9:45 am	Session Closing	
	PARALLEL SESSION 23	
	Venue: Pulau Pinang Room	
	HIGHWAY ENGINEERING Chairman: Prof. Ts. Dr. Mohd Rosli bin Hainin	
8:30 am	Paper 1 Title : From Mix Design to Highway Application: High Permeable Concrete as a Dual Function Pavement and Stormwater System. Presenter : Bashar S. Mohammed	
8:50 am	Paper 2 Title : Enhancing Mechanical Performance and Crack Resistance of Concrete Using Aramid Fibers (0–1.5%): Experimental and SEM–EDX Investigation. Presenter : Faraj Mohammed Salim Ali	
9:10 am	Paper 3 Title : A Case Study on Improving Machinery Efficiency in Pavement Rehabilitation Works. Presenter : Ir. Ts. Noor Shazlina Ahmad	
9:30 am	Paper 4 Title : Innovative Design Approach and Best Practice Implementation of Fiber Reinforce Concrete Pavement along PLUS Expressway. Presenter : Ts. Muhamad Fauzan Bin Muhamad Fadzil	
9:50 am	Q&A Session	
10:05 am	Session Closing	
	PARALLEL SESSION 24	
	Venue: Kelantan Room	
	SMART TECHNOLOGY Chairman: Dr. Rusdi Bin Rusli	
8:30 am	Paper 1 Title : Integrated Flood Mitigation And Real-Time Monitoring System (RTMS) For Critical Infrastructure: A Case Study Of The Shah Alam Interchange And Toll Plaza. Presenter : Ts. Norfajrul Fitri Bin Norhashim	

8:50 am	Paper 2 Title : A Mobile Data-Driven Approach for Urban Travel Pattern Analysis and Origin–Destination (O-D) Modelling – A Case Study at Kuala Lumpur. Presenter : Jonathan Gan Jia Jiun	
9:10 am	Paper 3 (IRF) Title: Interpreting Pavement Condition Assessment (PCA) Indicators for Riding Performance and Driving Mode: Implications for Connected, Automated, and IoT-Enabled Road Transport. Presenter : Anuar Adamuddin	
9:30 am	Paper 4 (IRF) Title : Critical Success Factors for VSM–BIM Integration in Road Design: A Systematic Review Presenter : Andy Faizal Sahapadin	
9:50 am	Q&A Session	
10:05 am	Session Closing	
	PARALLEL SESSION 25	
	Venue: Melaka Room	
	ASSET MANAGEMENT Chairman: Ir. Ts. Dr. Hj. Mohd Khairolden Bin Hj Ghani	
8:30 am	Paper 1 Title : Assessment of Optimum Shell's Binder Additive in the Performance of Hot-Mix Asphalt. Presenter : Nur Alya Qistina Mohd Zaidi	
8:50 am	Paper 2 Title : Development of a Highway Patrolling Strategy Based on Pothole Occurrence Considering Heavy Commercial Vehicle Traffic and Rainfall Effects. Presenter : Asyraf Naim Jamal Shahid Gurdial	
9:10 am	Paper 3 Title : Transitioning to Data-Driven Pavement Maintenance: A Pavement Condition Assessment (PCA) Framework for Federal Road Network in Peninsular Malaysia. Presenter : Ir Nur Qistina Abdullah	
9:30 am	Paper 4 Title : Digital New Norm of Asset Management Strategy Presenter : EUR ING Ir. Ts. Azizul Faiz Bin Abdul Aziz	
9:50 am	Q&A Session	
10:05 am	Session Closing	

DAY 3 : 15 OCTOBER 2026 (THURSDAY)	
9:00 am	Venue: Tun Hussein Onn
	• Presentation of Medals (MRC Invention and Innovation Exhibition) (MRC-IIE)
10:05 am	Coffee break / Networking
	CLOSING CEREMONY
10:45 am	Venue: Tun Hussein Onn
	• Expression of Appreciation by Ir. Mohd Shahrom Bin Ahmad Saman, Chairman of Organising Committee • Closing Address by YB. Dato Seri Haji Ahmad Maslan, Deputy Minister of Works, Malaysia • Presentation of Best MRC Invention and Innovation Exhibition Awards • Presentation of Artificial Intelligence (AI) Apps Design Competition 2026 • Presentation of Best Technical Paper Awards 2026 • Lucky Draw for participating delegates
1:00 pm	Lunch
	Venue: Tun Razak 3 Hall
2:00 pm	MRC Technical Visit