

East Asia & Pacific Area Conference 2025

*Sustainable Innovations in Materials and Corrosion
Engineering*

14 - 16 Oct 2025 • Putrajaya Marriott Hotel, Malaysia

Sponsors & Exhibitors



Supporting
Associations



Track 1

Digital Transformation and Predictive Integrity Management

Technical Chair : Khalil Abed & Ashish Khera

Garden I

14 Oct 2025

Garden I

Digital Transformation and Predictive Integrity Management

14 Oct 2025, Tue

Time : 1330 – 1630 hrs

Technical Chair : Khalil Abed & Ashish Khara

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1330 - 1400	DT01	AMPP012	Online Integrity Operating Window Utilizing Digital Twins	Aysha Alghailani	ADNOC Sour Gas
1400 - 1430	DT02	AMPP031	Optimizing Mechanical Integrity of Cooling Water Heat Exchanger Tube Bundles and Enhancing Asset Management through Simplistic Data Analytics	Kiran Korety	ExxonMobil Asia Pacific Private Limited & ExxonMobil Technology and Engineering Company
1430 - 1500	DT03	AMPP034	AI and Machine Learning Framework Development for Future AC Interference Induced Corrosion Monitoring and Prediction	Craig Botha	Reignite (Pty) Ltd
1500 - 1530	Tea Break				
1530 - 1600	DT04	AMPP011	Real Time UT corrosion Monitoring system in Sulfur Recovery Unit	Fatma AlShamsi	ADNOC Sour Gas
1600 - 1630	DT05	AMPP041	Critical Analysis of Risk Based Inspection Methodology for Inspection Planning of Internally Lined Unfired Pressure Vessel (UPV)	M Hairuldin Mustafa	PETRONAS
1630 - 1700	DT06	-			
1700 - 1730	DT07	-			



Track 2

The Silent Guardian: Cathodic Protection in Corrosion Prevention

Technical Chair : Craig Botha & Hasan Sabri

Garden II

14 Oct 2025

Garden II

The Silent Guardian: Cathodic Protection in Corrosion Prevention

14 Oct 2025, Tue

Time : 1330 – 1730 hrs

Technical Chair : Craig Botha & Hasan Sabri

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1330 - 1400	CP01	AMPP006	Case Study for Cathodic Protection Interference in Tank Farm What is Mitigation Measure and Monitoring Solution	Sarun Choomchaiyo	Aurecon Consulting (Thailand) Company Limited
1400 - 1430	CP02	AMPP013	Influence of Overprotection on AC corrosion. Analysis of a real case.	Ivano Magnifico	Automa SRL/ B&A Technologies
1430 - 1500	CP03	AMPP065	Influences of Isolating Joints on AC interference on a pipeline	Anshul Jain	Dehn India Private Limited, India
1500 - 1530	Tea Break				
1530 - 1600	CP04	AMPP027	Observation of Telluric Current Effect on Gas Transportation Pipeline in Northern Malaysia.	Harith Fahmi Mazlan	PETRONAS
1600 - 1630	CP05	AMPP028	On-Site Diagnostic Reference Electrode Coupon Assembly Installation Utilizing Extendable Probe Rod Tool	Ryan Ell	Marathon Petroleum Corporation, Borin Manufacturing, Inc.
1630 - 1700	CP06	AMPP033	Comparison Between Existing Deep-Well Anodes and Distributed Anode Design with Multiple Controllers for Cathodic Protection Upgrade in Petrochemical Plant	Chatchai Wongchalieo	GC Maintenance and Engineering Company Limited (GCME)
1700 - 1730	CP07	AMPP070	Beyond Potentials: Integrating CP and Integrity Inspections for Smarter Corrosion Control	Hasan Sabri	Kuwait Oil Company

Track 3

From Cradle to Grave: Materials Selection, Performance and Failure Analysis

Technical Chair : Dr. Basab Bhattacharya & Hiroyuki Takai

Garden III

14 Oct 2025

Garden III

From Cradle to Grave: Materials Selection, Performance and Failure Analysis

14 Oct 2025, Tue

Time : 1330 – 1630 hrs

Technical Chair : Dr. Basab Bhattacharya & Hiroyuki Takai

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1330 - 1400	MS01	AMPP003	Failure of Alloy 625 Tee in LPG Service	Manrajpal Singh Bajwa	Hengyuan Refining Company Berhad (HRC)
1400 - 1430	MS02	AMPP046	Assessment of Plastic Deformation in Flanged Joint using FEA - A Case Study on Fixed Tube Exchanger	Mujahid Azni & M Zulkarnain Rosli	PETRONAS
1430 - 1500	MS03	-			
1500 - 1530	Tea Break				
1530 - 1600	MS04	AMPP017	Integrity Management Systems in Oil and Gas	Mahieddine Draidia	Mawazine Consulting & Technical Services
1600 - 1630	MS05	AMPP030	Preferential Weld Corrosion and Localized Erosion in Gas Compression Systems: A Case Study from Offshore Operations	Esther Thong Yu Men	PETRONAS
1630 - 1700	MS06	-			
1700 - 1730	MS07	-			



Track 4

The Sustainable Edge: Carbon Reduction, Robotics, and Life Extension Strategies

Technical Chair : Dr Hiroshi Honda & Yudha Pratesa

Ballroom 2

15 Oct 2025

Ballroom 2

The Sustainable Edge: Carbon Reduction, Robotics, and Life Extension Strategies

15 Oct 2025, Wed

Time : 1030 – 1700 hrs

Technical Chair : Dr Hiroshi Honda & Yudha Pratesa

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1030 - 1100	SE01	AMPP020	Sensor Enabled Inspection Transformation and Robotisation	Lee Yan Yi	Inductosense Ltd
1100 - 1130	SE02	AMPP026	Robotic inspections of storage tanks, pressure vessels, boilers using PetroBot Robots & Digital Twins – Field Experiences	Sahab Gurjar	PetroBot Technologies Pvt Ltd, India
1130 - 1200	SE03	AMPP054	Magnetic Tomographic Inspection Based Fitness for Service Assessment	Mohamad Shahrustami Mohd Nadzeri	PETRONAS
1200 - 1230	SE04	AMPP029	Wholistic Approach to High Temperature Hydrogen Attack (HTHA): Identification, Assessment, Advanced Techniques for Legacy Fabricated Materials and Managing Strategies	William Andrew & Ng Zi Neng	Shell MDS (Malaysia) Sdn. Bhd.
1230 - 1330	Lunch Break				
1330 - 1400	SE05	AMPP015	Repurposing Existing Oil & Gas Pipelines for Dense Phase CO ₂ Application	Ganesh Sivaneswaran & Isaac Kugan	Berachah Group Sdn. Bhd
1400 - 1430	SE06	AMPP045	Modeling of long-term CO ₂ corrosion of martensitic stainless steels	Hiroyasu Ebina	JFE Steel Corporation & Tohoku University
1430 - 1500	SE07	AMPP053	Utilization Of Talas Beneng (Xanthosoma Undipes K.Koch) Leaf Extract As Corrosion And Scale Inhibitor On St-37 Steel In Geothermal Fluid	Ade Citra A. & Fadly Daffa H.	Universitas Sultan Ageng Tirtayasa (UNTIRTA)
1500 - 1530	Tea Break				
1530 - 1600	SE08	AMPP055	Optimisation of Topside Anode Retrofit for Fixed Offshore Structures	Wan Hariz Fadli Wan Shafie	PETRONAS
1600 - 1630	SE09	AMPP060	Challenges with Online Pipe Support Crack Repair for High Pressure Steam Piping	M Zairil Hafizi M Zailani & Mohd Zamri Jaafar	PETRONAS
1630 - 1700	SE10	AMPP043	Challenges of Aerogel Insulation Implementation for Corrosion Under Insulation Mitigation on a New De-ethanizer Column	Anis Amilah Ab Rahman	PETRONAS



Track 5

Energy Lifelines: Ensuring Integrity in Pipelines and Storage Systems

Technical Chair : Dr. Krista Heidersbach & Budi Susilowati

Garden I

15 Oct 2025

Garden I

Energy Lifelines: Ensuring Integrity in Pipelines and Storage Systems

15 Oct 2025, Wed

Time: 1030 – 1630 hrs

Technical Chair: Dr. Krista Heidersbach & Budi Susilowati

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1030 - 1100	PL01	AMPP025	VpCI Engineered Solution - Extend Storage Tank Life with Out-of-the-Box Innovation	Wong Jen Kuen	PETRONAS
1100 - 1130	PL02	AMPP071	Volatile Corrosion Inhibitor: Product Selection Testing & Product Performance Monitoring	Syaiful Khaidell Jubaidi	Veolia
1130 - 1200	PL03	AMPP058	Application of Internal Corrosion Direct Assessment (ICDA) Methodologies to Thirty Oil & Gas Production and Transport Pipelines – A Case Study	Ashish Khera	Allied Engineers, New Delhi, India
1200 - 1230	PL04	AMPP057	Keys To A Successful On-Field Application of ICDA For 17 Critical Natural Gas Pipelines: A Case Study	Ashish Khera	Allied Engineers, New Delhi, India
1230 - 1330	Lunch Break				
1330 - 1500	Track 6. Beyond the Salt Spray: Decarbonization & New Energy Transition – Corrosion and Integrity Challenges for the Next Generation Fleet - Chaired by Huraizah Zainal Nor				
1500 - 1530	Tea Break				
1530 - 1600	PL05	AMPP019	The Sustainable Features of Cathodic Protection Systems for Pipelines and Bridges as Case Studies in Tropical Maritime Condition	Bob Phang	SMEC Australia Pty Ltd
1600 - 1630	PL06	AMPP035	Mitigating Erosion and Corrosion Challenges in an Underground Seawater Industrial Pipeline: A Case Study on Long-Term Integrity Strategies	Kiran Chandran	ExxonMobil Chemical Asia Pacific Pte. Ltd.
1630 - 1700	PL07	-			

Track 6

Beyond the Salt Spray : Decarbonization & New Energy Transition – Corrosion and Integrity Challenges for the Next- Generation Fleet

Technical Chair : Huraizah Zainal Nor

Garden I

15 Oct 2025



Track 7

Engineered Surfaces: Advances in Performance-Driven Coating Systems

Technical Chair : Raymund Toledo & Suryani

Garden II

15 Oct 2025

Garden II

Engineered Surfaces: Advances in Performance-Driven Coating Systems

15 Oct 2025, Wed

Time : 1030 – 1630 hrs

Technical Chair : Raymund Toledo & Suryani

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1030 - 1100	ES01	AMPP067	Corrosion Under Insulation (CUI): Mitigating Risk Through Innovative Coating Solutions	Terence Wee	PPG Malaysia
1100 - 1130	ES02	AMPP005	Abrasive Selection for Painting Contractors - A Review of Relevant Industry Standards, Specifications and Certifications	Aaron Williams	Blast Abrasives Supply Sdn. Bhd.
1130 - 1200	ES03	AMPP007	Heat Induction Stripping of Thick Film Protective Coatings	Geoffrey White	Akzo Nobel Pty Limited & AkzoNobel (International Protective Coatings South Asia)
1200 - 1230	ES04	AMPP036	Neutra-Enhanced Rust Converter Additive: A Scalable, Sustainable Breakthrough for Offshore Corrosion Protection	Dr. Nurul Husna Othman	PETRONAS
1230 - 1330	Lunch Break				
1330 - 1400	ES05	AMPP061	Enhanced Corrosion Protection with Minimal Surface Preparation Via Graphene-Based Rust Converter Coating	Dr M Shamsul Farid Samsudin	PETRONAS
1400 - 1430	ES06	AMPP004	Long Term Protection of Splash Zone - Marine Pilings with Protective Coatings	Benjamin Biddle	Akzo Nobel Pty Limited & AkzoNobel (International Protective Coatings South Asia)
1430 - 1500	ES07	AMPP016	Novel Optimised Passive Fire Protection – the Positive Contribution to Sustainability and Net Zero Targets for Oil and Gas Companies, Managing Risk without Compromising on Safety, Durability and Corrosion Resistance	Helen Duckworth	Akzo Nobel, International Paint Ltd, UK
1500 - 1530	Tea Break				
1530 - 1600	ES08	AMPP021	Extending The Life of Offshore/Onshore Assets: Why Paint When You Can Tape?	Derrick Lenihan	Winn & Coales (Denso) Ltd
1600 - 1630	ES09	AMPP022	Reducing Risk and Avoiding Failures in Corrosion Under Insulation : From Bench to Real World Learning	Geoffrey White	Akzo Nobel, International Paint Ltd, UK



Track 8

From Risk to Resilience: Strategic Integrity Management for Critical Assets

Technical Chair : Muhammad Hawari B. Hasan & Suchada Punpruk

Garden III

15 Oct 2025

Garden III

From Risk to Resilience: Strategic Integrity Management for Critical Assets

15 Oct 2025, Wed

Time : 1030 – 1630 hrs

Technical Chair : M Hawari B. Hasan & Suchada Punpruk

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1030 - 1100	AM01	AMPP024	An assessment of Microbiological Monitoring Techniques for Microbiologically Influenced Corrosion (MIC) in a Large Onshore Oilfield.	Douglas Bennet	Intertek ITS Testing Services (M) Sdn Bhd & Intertek ITS Testing Services (UK) Ltd
1100 - 1130	AM02	AMPP009	Advancing Bacterial Monitoring Strategies for Improved MIC Management in the Field	Dr. Krista Heidersbach	Brown Corrosion Services, Inc
1130 - 1200	AM03	AMPP064	Dealing with Unexpected "Synergy" from Bacteria & Sand in Condensate Pipeline	Metrik Kresna Pradana & Suryani	PT Pertamina Hulu Energi
1200 - 1230	AM04	-			
1230 - 1330	Lunch Break				
1330 - 1400	AM05	AMPP001	Metallurgical Behavior Of Localized (Hotspot) High Tube Skin Temperature For Low Carbon Steel Tubes In Crude Distillation Furnace	Manrajpal Singh Bajwa	Hengyuan Refining Company Berhad (HRC)
1400 - 1430	AM06	AMPP068	Electrochemical Chloride Extraction: Re-injecting Sustainability into the Asia-Pacific Market	Nick Critchley	Marine & Civil Maintenance (Australia)
1430 - 1500	AM07	AMPP042	Impact and Mitigation of High Chlorides Levels in Diesel Hydrotreaters	Jun Wei Tan & Zachary Cater-Cyker	Melaka Energy Park, Becht Asia Pacific
1500 - 1530	Tea Break				
1530 - 1600	AM08	AMPP002	Enhancing Gas Pipeline Integrity Through Innovative Corrosion Management Strategies	Dr. Lutfi Abosrra	Saudi Aramco
1600 - 1630	AM09	AMPP059	Proactive Corrosion Assessment and Mitigation Strategies for Enhanced Oil Recovery Operations: A Case Study from an Offshore Water Alternating Gas (WAG) Injection Well	Ashish Khera	Allied Engineers, New Delhi, India

Track 9

Tech Jam: Innovation Unplugged

Technical Chair : AP Ir. Dr. Najmiddin Yaakob &
Alia Rashiqah A Rahman

Chill Area

15 Oct 2025

Chill Area

Tech Jam: Innovation Unplugged

15 Oct 2025, Wed

Time : 1030 – 1500 hrs

AP Ir. Dr. Najmiddin Yaakob & Alia Rashiqah A Rahman

Time (hrs)	Slot No	Paper ID	Title	Presenter	Company
1030 - 1100	TJ01	AMPP010	Laser Precision vs. Traditional Power: A Technical Comparison of Surface Cleaning Technologies	JD Thomason	3J Offshore Services Sdn Bhd
1100 - 1130	TJ02	AMPP052	Crack Predictive Based on Insitu Passive Magnetic Field Measurements on Insulated Pipe Support	Dr. Siti Zubaidah Mat Daud	MR Technology Sdn. Bhd.
1130 - 1200	TJ03	AMPP062	Failure Analysis of Tetra Fitting for Furnace Radiant Coil Outlet to Transfer Line Exchanger (TLE)	M Fahmi B M Bekery	PETRONAS
1200 - 1230	TJ04	-			
1230 - 1330	Lunch Break				
1330 - 1400	TJ05	-			
1400 - 1430	TJ06	AMPP023	Enhancing Effectiveness in Pipeline Integrity Management with PCMP-PL©: A Comprehensive Approach	Zarina Hamid Ghul	PETRONAS
1430 - 1500	TJ07	AMPP051	Advanced Detection and Quantification of Corrosion Anomalies in Aboveground Storage Tanks	M Syahid A Hanan	MRA International Sdn. Bhd.
1500 - 1530	Tea Break				



STEM 360: Innovating for a Sustainable Future

Garden I & II

16 Oct 2025



Step into the Future: VR Meets Asset Integrity

Garden III

16 Oct 2025