

Technical Program

East Asia Pacific Area (EAPA) 2021 Virtual Conference

12-13 October 2021 | Malaysia Timezone (GMT+8)
[\(Check conference time in your location\)](#)



Keynote Speaker

Corrosion Cost and Impact: Australasian Review

12 October 2021 | 9:15 – 9:50 AM



Dr. Wayne Thomson

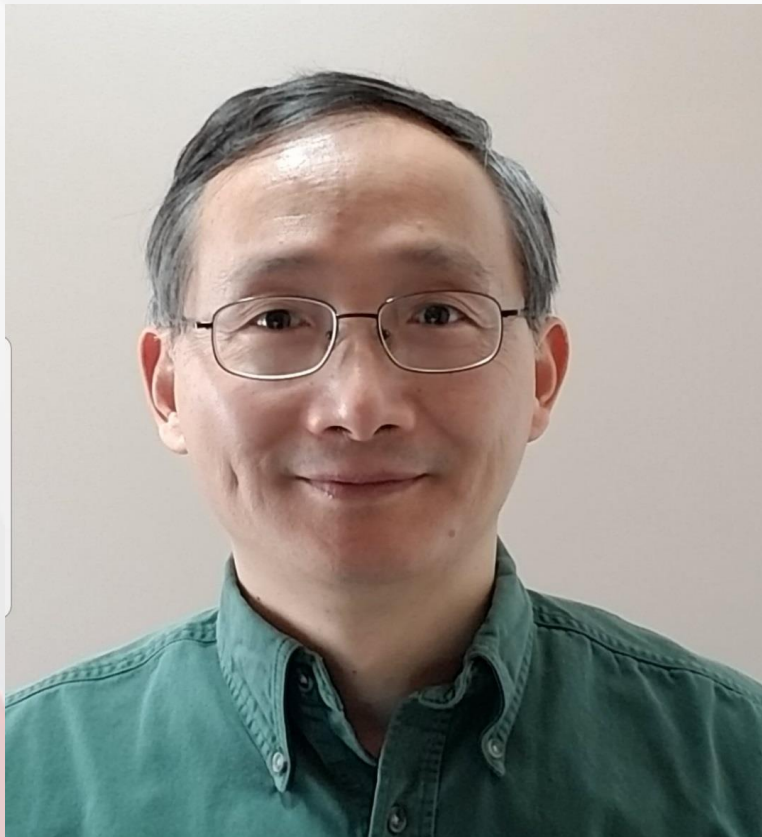
*Managing Director
PFP Systems*

Wayne Thomson is Managing Director of PFP Systems. Wayne has served on the New Zealand and Queensland Branch Committees, Council and ACA board. Wayne started out his working life in the nuclear industry as a Mechanical Engineer. He has worked in the energy and infrastructure, chemical industries in South Africa, Italy, New Zealand and Australia. He has an MBA and PhD in business. His thesis explores sustained growth of engineering firms in the energy industry.

Keynote Speaker

MIC Science vs. MIC Art

13 October 2021 | 9:10 – 9:45 AM



Dr. Tingyue Gu

*Professor
Ohio University*

Tingyue Gu obtained his PhD in Chemical Engineering from Purdue University in 1990. He worked for Miller Brewing Company for one year before joining Ohio University where he is currently a full professor of chemical engineering affiliated with its Institute for Corrosion and Multiphase Technology. His MIC research interests include mechanisms, modeling, biofilm mitigation, and biofilm sensor development.

Tuesday, 12 October

Time	Session I	Session II	Session III	Session IV
9:00-9:15 AM	Opening and Welcome Remarks			
9:15-9:50 AM	Keynote Speech – Corrosion Cost and Impact: Australasian Review Dr Wayne Thomson Managing Director, PFP Systems			
9:50-10:00 AM	Visit to Company Showcase			
	Digital Transformation in Corrosion Session	Corrosion Research & Innovation Session	Advancement in Corrosion Mitigation Session	Coatings & Cathodic Protection Session
10:00-10:20 AM	EAPA21-18239 The Smart CUI Troubleshooting Presented by Tanapat Kaewmaneekul, GC Maintenance and Engineering Co., Ltd.	EAPA21-17531 A New Innovation in Austenitic Stainless Steel - UNS N08935 Presented by Vikram Pandit, Sandvik Materials Technology India Pvt Ltd	EAPA21-18259 Advanced Protective Coatings Based on Zero VOC Water Based Sustainable Coating Formulation Presented by Sachin Joshi, Greenovac Speciality Coatings Pvt. Ltd.	EAPA21-17854 A Guide to SSPC-AB 1 Abrasive Certification for Painting Contractors Presented by Aaron Williams, Blast Abrasives Supply Sdn Bhd
10:20-10:40 AM	EAPA21-18243 Corrosion Assessment in a Digitally Transformed World Presented by Nigel Curson, Penspen Group	EAPA21-18306 Application of CTS Technology in Atmospheric and Vacuum Distillation Units Presented by Jianming Xiao, Candor Technology Co., Ltd.	EAPA21-18286 Development and Evaluation of Surface Tolerant Epoxy Coating on Salt Contaminated Surfaces Presented by Ameerq Farooq, University of Punjab	EAPA21-18301 Corrosion Prevention of Aging Structures by Application of Unique Cathodic Protection Solutions Presented by Shailesh Javia, MATCOR Inc.
10:40-11:00 AM	EAPA21-18246 Intelligent Corrosion Prediction for Oil and Gas Refinery using Light Gradient Boosting Machine Presented by Mohd Hilmi Hasan, Universiti Teknologi PETRONAS	EAPA21-18249 Characterization of Passive Films on Metals at Nanoscale Presented by Bowei Zhang, University of Science and Technology Beijing	EAPA21-18267 Low Noise, High Productivity Nozzle Presented by Kevin Wong and Scott Simmons, BlastOne	EAPA21-18261 Aerogel Insulation - Proving the Capabilities for CUI Mitigation Presented by Zhen Hua Lean, Armacell Engineered Systems
11:00-11:20 AM	EAPA21-18281 Realising the Benefits of Remote Monitoring of Corrosion in Assets Presented by David Celine, Omniflex	EAPA21-18279 Assessment on the Plant-Based Inhibitor for Corrosion Controlling of Steel-Reinforced Concrete Infrastructures Presented by Jagadeesh Bhattarai, Tribhuvan University	Live Q&A	EAPA21-18256 Determining Pipeline Asset Integrity via Comprehensive Cathodic Protection Close Interval Potential Survey Data Analysis Presented by Ahmad Shamiri Bin Wahab, Mach3 Engineering Sdn Bhd
11:20-11:40 AM	Live Q&A	Live Q&A		Live Q&A

11:40-11:50 AM	Visit to Company Showcase		
	Digital Transformation in Corrosion Session	Asset Integrity & Risk Management Session	Advancement in Corrosion Mitigation Session
11:50-12:10 PM	EAPA21-18242 Airblast Robotic Crawlers - Magna Blast Presented by Varatha Rajan Rajesh, Asia Airblast Pte LTD	EAPA21-18312 Risk Based Inspection & Corrosion Management of FPSOs Presented by David Jones, MODEC	EAPA21-18238 Improving Reliability by Upgrading Metallurgy Utilizing High Velocity Thermal Spray Presented by Peter Johnson, Integrated Global Services
12:10-12:30 PM	EAPA21-18244 Insights from Application of Big Data Analytics and Machine Learning on Material Performance Data Presented by Su Anne Tan, Petroliam Nasional Berhad	EAPA21-18294 Assessment of High Temperature Hydrogen Attack of Non PWHT Carbon Steel Pressure Vessel in an Oil Refining Complex Presented by Rajaram Chidambaram, ExxonMobil Chemicals Operation Private Limited	EAPA21-18307 Corrosion Study and Microbiome Analysis for Some Structural Materials Exposed in an Industrial Water Environment Presented by Yasuyuki Miyano, Akita University
12:30-12:50 PM	EAPA21-18293 Maintaining Asset Integrity in the 21St Century via Electronic Maintenance and Repair Software Presented by David Johnstone, Akzo Nobel Pty Limited	EAPA21-18305 A Review of Corrosion Rate Monitoring Method Based on Tafel Extrapolation (CIPE) For Carbon Steel in Various Environments Presented by Satoru Yamamoto, The Nippon Corrosion Engineering co., LTD	EAPA21-18262 Hybrid Pipeline Materials – A Fit for Purpose Solution for Offshore Pipeline Transporting Treated Multiphase Gas and Condensate Presented by Nur Izyan Mukhtar, PETRONAS
12:40-1:00 PM	EAPA21-18274 Applying Data Analytics to Support Pipeline Integrity Decision-Making Presented by Razwan Arshad, ROSEN Group	EAPA21-18278 Centrifugal Compressor Rapid Performance Degradation due to Fouling Presented by Saiful Osman, PETRONAS	EAPA21-18241 Environmentally Friendly Corrosion Inhibitors with Heavy Duty Liquid Lanolin (HD) Presented by Anthony Chia Mun Chung, Lanotec Asia Pacific Pte Ltd
1:00-1:25 PM	Live Q&A	Live Q&A	Live Q&A
1:25-1:30 PM	Networking		

Wednesday, 13 October

Time	Session I	Session II	Session III	Session IV
9:00-9:10 AM	Welcome Remarks			
9:10-9:45 AM	Keynote Speech – MIC Science vs. MIC Art Dr. Tingyue Gu Professor, Ohio University			
	Digital Transformation in Corrosion Session	Asset Integrity & Risk Management Session		Coatings & Cathodic Protection Session
9:45-10:05 AM	EAPA21-18302 Wireless Ultrasound Based Corrosion Monitoring System Presented by Oystein Baltzersen, Sensorlink	EAPA21-18289 Challenges in Aging Furnace Integrity Assessment with Multidisciplinary Simulations Presented by Anis Amilah Bt Ab Rahman, PETRONAS		EAPA21-18271 Corrosion Under Insulation (CUI) Risk Monitoring Using EMGR Sensing Technology Presented by Claudia Martinez, CorrosionRadar
10:05-10:25 AM	EAPA21-18268 Robotics Inspection in Combating Confined Space Challenges Presented by Muhamamd Syafiq Mohamad Khairi, Baker Hughes	EAPA21-18270 Improving Reliability in Waste to Energy Production Presented by Peter Johnson, Integrated Global Services		EAPA21-18283 Cathodic Protection and Possible Interference Issues in a Shared Easement Presented by Choong Pooi Ying, Mach3 Engineering Sdn Bhd
10:25-10:45 AM	EAPA21-18245 Abrasive Blast Robots Presented by Varatha Rajan Rajesh, Asia Airblast Pte Ltd	EAPA21-18291 Asset Integrity – Planned and Reactive Approach to Corrosion Presented by Yusuke Nishi, Belzona		EAPA21-18269 Atmospheric Corrosion Protection and Prevention by Use of Stopaq Viscoelastic Coatings Presented by Dinko Cudic, Seal For Life Industries
10:45-11:05 AM	Live Q&A	Live Q&A		Live Q&A
11:05-11:15 AM	Visit to Company Showcase			
	Corrosion Research & Innovation Session	Asset Integrity & Risk Management Session	Advancement in Corrosion Mitigation Session	Coatings & Cathodic Protection Session
11:15-11:25 AM	EAPA21-18248 Corrosion-Erosion and Its Inhibition Behaviors Under the Pipe Flow Condition Presented by Xiankang Zhong, Southwest Petroleum University	EAPA21-18282 Microbiologically Influenced Corrosion (MIC) Attack on an Underground Piping System Presented by Mohd Shahrizal Bin PKM Seeni Mohd, Petronas	EAPA21-18273 Groupwide Level Strategy and Intervention to Reduce Loss of Primary Containment (LOPC) due to Piping Corrosion Presented by W Nurhusna Hasnan, PETRONAS	EAPA21-18290 The Ideal Isolation Solution for Above and Below Ground Presented by Christian Cartwright, Garlock Pipeline Technologies

11:25-11:45 AM	EAPA21-18304 Experimental Evaluation of Corrosion-Resistant Coating in Sour Service Presented by Jin Zhong Zhang, China Petroleum Engineering and Construction Company	EAPA21-18285 Performance Evaluation of Black Oxide Anchor Bolts of Mild Steel in Aggressive Environment of Concrete Structure Presented by Ameerq Farooq, University of Punjab	EAPA21-18257 Detection and Sizing of Corrosion under Pipe Supports (CUPS) Using Guided Waves Presented by Chien An Chua, Guided Ultrasonics Ltd.	EAPA21-17541 Extending Asset Lifetime Without Operational Shutdown with the Use Thermoplastic Coatings Presented by Marcus Yap, Oxifree at Seal For Life
11:45-12:05 PM	EAPA21-18253 Comparative Corrosion Behavior of Austenitic 316L and Duplex 2205 Stainless Steels: Microstructure and Property Evolution at Highly Partial Pressure of H₂S Presented by Mazlan Shah, Universiti Kebangsaan Malaysia / DNV GL Malaysia Sdn Bhd	EAPA21-18275 Standard Practice for Biofouling Inspection and Reporting during Underwater Inspection on Ships: A Success Story of Collaboration to Address Gap Industry Presented by Tibi Stan, BP Singapore Pte Ltd	EAPA21-18280 Using the Scientific Fundamentals to Identify and Detect Stress Corrosion Cracks in Oil and Gas Pipelines Presented by Veluppillai Vijayaraghavan, Aurecon Group pty	EAPA21-18263 Review of Advanced Technologies for Corrosion Monitoring of Pipelines External Corrosion under Nonmetallic Sleeves Presented by Te Ke, Aramco Asia
12:05-12:25 PM	EAPA21-18255 The Dual Effects of Marine Microorganism on Metal Corrosion and Its Beneficial Utilization Presented by Tao Liu, Shanghai Maritime University	EAPA21-18264 Top of Line Corrosion in Multiphase Gas Lines: Operational Feedback after 20 Years Presented by Rian Ashari, Pertamina Hulu Mahakam	EAPA21-18287 Hydrogen Embrittlement of the Structural Component of a Composite Flex Cord Line Pipe (FCLP) 801 System – Causes And Mitigations Presented by Ibrahim Gadala, Acuren	Live Q&A
12:25-12:45 PM	Live Q&A	Live Q&A	Live Q&A	
12:45-12:55 PM	Visit to Company Showcase			
	Corrosion Research & Innovation Session		Advancement in Corrosion Mitigation Session	Coatings & Cathodic Protection Session
12:55-1:15 PM	EAPA21-18303 Pilot Research on Titanium Alloy Used as Sour Gas Gathering Pipeline Presented by Li Tianlei, China Petroleum Engineering and Construction Company		EAPA21-18265 Failure Analysis of Tubes in Heat Recovery System in a Phosphoric Acid Plant Presented by Vikram Pandit, Sandvik Materials Technology India Pvt Ltd	EAPA21-18169 Comparison of Current Industry Guidance Relating to the Use of Coatings for the Prevention of Corrosion Under Insulation (CUI) Presented by Simon Daly, Hempel A/S

1:15-1:35 PM	<p>EAPA21-18252 SCC Crack Propagation Mechanism on P91 Steel Presented by Nizam Yusoff, TNB Research Sdn Bhd</p>		<p>EAPA21-18258 Accurate Naphthenic Acid and Sulfidic Corrosion Prediction for Enhanced Unit Reliability and Profitability Presented by Sridhar Srinivasan, Becht</p>	<p>EAPA21-18313 Mitigate Flash Rust and Coating Failures in One Step, and Save Millions Presented by Aaron Williams, Blast Abrasives Supply Sdn Bhd</p>
1:35-1:55 PM	<p>EAPA21-18292 UNS S32707: A New A Hyper-Duplex Stainless Steel For Demanding Wet Corrosive Applications Presented by Dragon Hao, Sandvik International Trading (Shanghai) Co., Ltd</p>		<p>EAPA21-18276 Influence of Oxidation Prevention to Tin Solder Wetting Presented by Saito Hiroyuki, Tokyo Denki University</p>	<p>EAPA21-18284 How Galvanized Rebar Protects Concrete from Corrosion in the East, West, and Around the World Presented by Bernardo Duran, International Zinc Association</p>
1:55-2:15 PM	Live Q&A		Live Q&A	Live Q&A
2:15-2:30 PM	Visit to Company Showcase			