

TECHNICAL PROGRAMME (ORAL) | DAY 1 | LOSS PREVENTION ASIA | 25-26 NOV 2019 | KUALA LUMPUR

| Monday - 25/11/2019 | | | | |
|-----------------------|---|--|--|---|
| | Session 1 : Safety Culture & Integrity Management Venue : Mahkota II Session Chair : TBC | Session 2 : Offshore Safety Venue : Mahkota III Session Chair : TBC | Session 3 : Optimization & Data Analytic Venue : Safir Session Chair : TBC | Session 13 : Process Safety Venue : Berlian Session Chair : TBC |
| 2.00 P.M. - 2.20P.M. | Embrace Living Safety Concept to Raise Proactiveness Within Company's Safety Performance and Culture Taram Satiraksa Abdullahwan and Mohd Kamarudin Abdul Hamid VESTIGO | A Hybrid Human Reliability Assessment Technique for Maintenance of Marine and Offshore Operations Rabiul Islam, Mohan Anantharaman, Faisal Khan, Rouzbeh Abbassi and Vikram Garaniya Australian Maritime College (UTAS) | A Variable Mosquito Flying Optimization Based Hybrid ANN Model for The Alarm Tuning of Process Fault Detection Systems Md Alauddin, Faisal Khan, Syed Imtiaz and Salim Ahmed Memorial University | Human Factors Influencing the Reliability of Fire and Gas Detection System Ahmad Muzammil Idris, Risza Rusli, Nor Aini Burok, Nur Husnina Mohd Nabil, Shefa Abdul, Abdul Harizul Mustaqim Abdul Karim, Idris Mydin UTP |
| 2.20 P.M. - 2.40 P.M. | Intelligent Risk-Based Maintenance Approach for Steam Boilers: Real Case Firas Basim Ismail Alnaimi, Noor Fazreen Ahmad Fuzi and Mohammad Shakir Nasif UNITEN | Risk Assessment on The Impact of Port Development to Wellhead Platform by SQRA Method Heri Hermansyah, Anggraini Ratih Kumaraningrum, Andy Noorsaman Sommeng, Anondho Wijanarko, Muhamad Sahlan and Azmi Mohd Sharif Universitas Indonesia | A Novel Denoising Method of Defect Signals Based On Ensemble Empirical Mode Decomposition and Energy-Based Adaptive Thresholding Xiaobin Liang, Wei Liang, Jingyi Xiong and Meng Zhang China University of Petroleum (Beijing) | Modelling impact of combustion products in processing facilities Vikram Garaniya, Jia Wei Tan, Til Baalisampang, Rouzbeh Abbassi, Faisal Khan and Mohammad Dadashzadeh University of Tasmania |
| 2.40 P.M. – 3.00 P.M. | Managing Heat Recovery Steam Generator (HRSG) Integrity and Inspection by Risk Based Inspection (RBI) Approach Mohd Zaini Mohd Zakaria, Hashim Othman and Hambali Chik PETRONAS | Safety and cost aspects of pressurized vs. non-pressurised electrical room designs for offshore facilities Girish Jose, Krishna Moorthy and Mohd Shazwan Che Shamsuddin Advisian Malaysia Sdn Bhd | A Reliable Processing Method of Data Detected by Magnetic Eddy Current of a Defect Cluster Based on Data Fitting and Genetic Algorithm Jingyi Xiong, Wei Liang, Xiaobin Liang and Meng Zhang China University of Petroleum (Beijing) | Shallow Water Well Conductor Life Extension Mohammad Norakmal /Yong Sha and Shreenaath Natarajan 2H Offshore (Asia Pacific) Sdn Bhd |

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| 3.00 P.M. - 3.20 P.M. | Reliability Analysis of Gas Turbine by means of Bathtub-Shaped Failure Rate Distribution Shazaib Ahsan, Tamiru Alemu Lemma, Masdi Muhammad and Mebrahitom Asmelash Gebremariam UTP | Advanced Inspection, Monitoring and Repair Methods for Integrity Management of Subsea Production Systems Yulong Zhang, Frank Lim, Menglan Duan and Chen An China University of Petroleum-Beijing | Thermodynamic Availability Analysis for Quantification of Resilience of Gas Sweetening Unit: Optimization of Energy Usage & Reduction in Equipment Cost Dr Sirshendu Guha and Dr Sudip Kumar Das University of Calcutta | RENTAP (Rapid Evacuation, Nearby Tracking and Access Pass) Muhamad Fauzi Ayub & Ahmad Ridhwan Hassan Malaysia LNG Sdn Bhd |
| 3.20 P.M. - 3.30 P.M. | Q&A Session | Q&A Session | Q&A Session | Q&A Session |

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| | Session 4 : Data Analytics Venue : Mahkota II Session Chair : TBC | Session 5 : Offshore Safety Venue : Mahkota III Session Chair : TBC | Session 6 : Occupational Safety & Health Venue : Safir Session Chair : TBC |
| 3.45 P.M. - 4.05 P.M. | Validating HAZOP/LOPA Assumptions Using Your Own Historian Data Anthony Downes Honeywell Performance Materials & Technologies | Probability Analysis of Damages to Subsea Pipeline Nurul Sa'Adah Sulaiman and Henry Tan UMP | Investigation of The Causes for Fatal Accidents Due to Falls from Heights in Malaysia and USA Abderrahim Zermane, Mohd Zahirasri Mohd Tohir, Hamdan Mohamed Yusoff and Mohd Rafee Baharudin UPM |
| 4.05 P.M. - 4.25 P.M. | The digitalisation of Function Safety Issam Mukhtar Schneider Electric | A Maturity Model Assessment of QRA in the Malaysia Offshore Oil and Gas Industry Krishna Moorthy Advisian Malaysia Sdn Bhd | Design of Household Products Ingredients with Minimum Safety and Health Risk Rafeqah Raslan, Mimi Haryani Hassim, Nishanth G. Chemmangattuvalappil and Denny K. S. Ng UITM/UTM |
| 4.25 P.M. - 4.45 P.M. | Search & Connect Your Safety Critical Big Data Joep Coenen and Mark van 'T Zet Versatec/Radial SG | The challenges of performing basic offshore survival and emergency training for platforms in tropical water Norafneez Norazahar UTM | Occupational Safety Contribution to Process Safety Zamri Wagiman ARKEMA THIOCHEMICAL SDN BHD |
| 4.45 P.M. – 5.00 P.M. | Q&A Session | Q&A Session | Q&A Session |

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| | Session 7 : Fire & Explosion Venue : Mahkota II Session Chair : TBC | Session 8 : Integrity Management Venue : Mahkota III Session Chair : TBC | Session 9 : Data Analytic Venue : Safir Session Chair : TBC |
| 1.30 P.M. -1.50 P.M. | ALARP Demonstration Case Study - Firewater Curtain Application for LPG Sphere Sivaneswaran Kamala Kannan, Tetsushi Matsui, Florian Guinchard, Yuya Takahashi, Tetsuo Yonezawa and Yoshihito Takada INPEX Corporation | Integrity Management In Digital World Mohd Shahrman M Sharif / Muhammad Syazwan b Syahril PETRONAS | Avoidance of Loss of Product Containment (LOPC) Through Effective Implementation of Digital Pipeline Integrity Management System (PIMS) Ahmad Sirwan Mat Tuselim PETRONAS |
| 1.50 P.M. -2.10 P.M. | Combatting Scavenge Fires and Crankcase Explosions On Merchant Ships Mohan Anantharaman, Rabiul Islam, Faisal Khan and Vikram Garaniya Australian Maritime College (UTAS) | Piping Integrity Improvement Towards Plant OEE Improvement Wei Lee Choo, Hua JiuH Sia and Zainal M Arif PETRONAS | Use of Logic-based Probabilistic Network Model to Detect and Track Faults in a Process System Amr Tphoon, Risza Rusli and Faisal Khan UTP |
| 2.10 P.M. -2.30 P.M. | Assessment of Explosibility and Explosion Severity of Rice Flour at Different Concentration and Ignition Time Wan Zaiton Wan Sulaiman, Pm Dr Mohd Fadzil Mohd Idris, Pm Dr Jolius Gim bun and Ir.Ts.Dr Siti Zubaidah Sulaiman UMP | Composite Repairs Integrity Assessment: An Overview of Inspection Techniques Siti Haslina Mohd Ramli and Rosman Ariffin PETRONAS | Investigation on The Suitability of Natural Gas Hydrate Formation Prediction Simulation Packages and its Implementation Conditions Firas Basim Ismail Alnaimi, Chee Liang Lim Henry, Amar Sahed, Hikmat S Al Salim and Mohammad Shakir Nasif UNITEN |
| 2.30 P.M. -2.50 P.M. | Analysis of Fuel Truck Accident Data in One Fuel Distribution Company in Indonesia Lisda Dwi Rahayu and Mila Tejamaya Universitas Indonesia | Pipeline Integrity Management and The Invent of Analytics Mohd Nazmi Mohd Ali Napiah PETRONAS | Data Driven Safety and the Swiss Cheese Ananth Nochur Teradata |
| 2.50 P.M.- 3.00 P.M. | Q&A Session | Q&A Session | Q&A Session |

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| | Session 10 : Process Safety Management Venue : Mahkota I Session Chair : TBC | Session 11 : Process Safety Venue : Mahkota II Session Chair : TBC | Session 12 : Data Analytic Venue : Safir Session Chair : TBC |
| 3.15 P.M. - 3.35 P.M. | Management of Change System with Integrated Risk Analysis for Temporary and Emergency Cases Kar Kei Pang and Hanida Abdul Aziz UMP | Establish and Operationalize Safe Operating Limits Mohd Ashraf Mohd Ibrahim PETRONAS | Electronic Safety Case (e-SafetyCase) Mike Bates Risktec |
| 3.35 P.M. - 3.55 P.M. | An Overview of Integrated Management System in National Nuclear Energy Agency, Indonesia Widjanarko Widjanarko, Anggraini Ratih Kumaraningrum and Hanna Yasmine Badan Tenaga Nuklir Nasional | Risk Based approach to manage Process Safety aspects of an old NGL facility Prakash Naidu and Dinesh Govind Qatar Petroleum | Statistical Analysis of Malaysian Timber's Combustion data from the Cone Calorimeter Test Sulaiha Ali, Siti Aslina Hussain and Mohd. Zahirasri Mohd. Tohir UPM |
| 3.55 P.M. - 4.15 P.M. | Complacency or Lack of Awareness: Concerns on Permit to Work Application and Ways to Enhance the Implemented Practices Nugrahanto Widagdo Sekolah Tinggi Teknologi Industri Bontang (STTIB/Industrial Technology College) | A Simplified Dynamic Model for Transient Depressurization Analysis of LDPE Tubular Reactor Rafyhadi Junaedi, Noor Arnida Abdul Talip, Fadzrul Izwan Muhd Ali and Das Babua PETRONAS | Functional Safety & Cyber Security: Common Cause Failure Vulnerabilities of ICSS architectures in practice Sujith Bhaskara Panikkar HIMA Asia Pacific Pte.Ltd. |
| 4.15 P.M. - 4.30 P.M. | Q&A Session | Q&A Session | Q&A Session |

TECHNICAL PROGRAMME (POSTER) | DAY 1 | LOSS PREVENTION ASIA | 25-26 NOV 2019 | KUALA LUMPUR

| Monday – 25/11/2019 |
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| Poster Session 1 Venue : Ballroom Foyer Time : 9.00 A.M. to 5.00 P.M. |
| Design Optimization of Base-Frame Structure of Portable Cabin Using Structural Analysis Shazaib Ahsan, Muhammad Fahad, Ali Akbar and Farooq I Azam UTP |
| Optimum Plant Design for Relief Safety System Aini Aliah Yusoff, Zulfan Adi Putra, Risza Rusli, M Roil Bilad, Nik Abdul Hadi Md Nordin and M Dzul Hakim Wirzal UTP |
| Main Geometrical Features of Horizontal Buoyant Jet Fire and Associated Radiative Fraction Nur Shahidah Ab Aziz, Rafiziana Md Kasmani and Mohd Dinie Muhaimin Samsudin, UTM/UiTM |
| Remaining Useful Life Prediction of Crude Oil Pipeline by Means of Deterioration Curves Nagoor Basha, Srinivasa Rao Pedapati and Faizul Dzubir UTP |
| Breakeven Analysis of Thermal Energy Storage System under Uncertain Operating Conditions Ali Akbar, Mohd Amin Bin Abd Majid and Ainul Akmar Binti Mokhtar UTP |
| Evaluation of Plated vs Grated Process Deck in Typical FPSO from Explosion Perspective Umamaheswari Porselvam, Nik Nor Liyana Nik Ibrahim and Hamdan Bin Mohamed Yusoff UPM |
| Effect of Wind Conditions on Human Injury and Fatality Risk in an Offshore Platform Usama Muhammad Niazi, Mohammad Shakir Nasif and Masdi Muhammad UTP |
| A Study On Inherent Safer Design Practices and Enhancement Methods in Process Industries Baiju Karun and Dr.V.R.Renjith Cochin University of Science and Technology (CUSAT) |
| Stochastic Model and Adaptive Threshold Based Fault Detection and Diagnostics System for Gas Pipelines Syed Muhammad Mujtaba and Tamiru Alemu Lemma UTP |

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| Poster Session 2 Venue : Ballroom Foyer Time : 9.00 A.M. to 5.00 P.M. |
| Equipment Based Route Index of Inherent Safety Muhammad Athar, Azmi Mohd Shariff, Azizul Buang and Heri Hermansyah UTP |
| Incident Investigation Work-Aid Tool for Process Safety Management Compliance in Process Industries Noor Diana Abdul Majid and Azmi Mohd Shariff UTP |
| Applications of Intuitionistic Fuzzy Analytic Heirarchy Process: An Overview V.R. Renjith and Suresh G CUSAT, India (Cochin University of Science and Technology) |
| Classification of Faults in Oil and Gas Pipelines Using Support Vector Machines Nagoor Basha, Srinivasa Rao Pedapati, Shazaib Ahsan and Faizul Dzubir UTP |
| Stakeholder Outreach on Process Safety for Process Industry using Risk Based Approaches Siti Nur Balqis Fauzi Rahman, Azmi Mohd Shariff and Dzulkarnain Zaini UTP |
| Conceptual Framework – Risk Assessment of Nanomaterials Using Bayesian Network Mardhati Zainal Abidin and Risza Rusli UTP |
| Preliminary Study of General Safety Requirements-3 Part 2 as a Scope for BATAN Integrated Management System Rusbani Kurniawan, Iswanto Iswanto, Sunarto Sunarto and Yuliana Esti Prabandari Badan Tenaga Nuklir Nasional |
| Simulation of Erosion Rate in Standalone Sand Screen Due to Sand Production Ahmed Alghurabi, Mysara Eissa Mohyaldinn, Shiferaw Regassa Jufar and Obai Younis Taha UTP |