



ASSET MANAGEMENT COUNCIL



International Conference on Maintenance and Intelligent Asset Management ICMIAM 2023

Federation University Australia, Ballarat, Victoria, Australia

Seminar theatre in the Brewery Complex and Technical Parallel Sessions in Building A, SMB campus Federation University.

6 - 8 December 2023, Melbourne, Australia (Australian Eastern Standard Time)

[Conference Registration Link](#)

Organised by

Centre for Smart Analytics and Institute of Innovation, Science and Sustainability, Federation University Australia

Manipal Academy of Higher Education, Manipal, Asset Management Council Australia

Sponsors



Technical co-sponsors

IEEE Victorian Section (Australia)



IEEE Victorian Section



Tuesday 5th Dec: Registrations from 2 to 4pm

Day 1, Wednesday, 6th December 2023 Inauguration and Welcome session Room1 (Registration from 8:30am, Session: 9:00am – 10:30am)

<i>Master of Ceremony and about the conference</i> Dr. Gopi Chattopadhyay, General Chair of ICMIAM2023 conference and Dr. Anne Gibbs, Advisory Board ICMIAM2023 (10 mins)
<i>Acknowledgement of the Country</i> Nik Sharpe, Maintenance and Reliability Engineering Alumni and Academic, Federation University (5 mins)
<i>Ceremony: Lighting lamps and performance</i> Ballarat Communities (15 mins)
<i>Inauguration and Welcome speech</i> Prof. Iven Mareels, Executive Dean, Institute of Innovation, Science and Sustainability (IISS), Federation University Australia (10 mins) <i>City of Ballarat Councillor, Councillor Samantha McIntosh (10 mins)</i>
<i>Opening words</i> Mr. Toby Horstead, National Chair, Asset Management Council (5 mins) Prof. Syed Islam, Associate Deputy Vice-Chancellor (Research and Innovation), Federation University Australia (10 mins)
<i>Address by Dr Sushil Kumar, Consul General of India, Melbourne (5 mins)</i>
<i>Video messages from</i> Prof. Chris Hutchison, DVCRI, Federation University Australia (5mins)
<i>An IEEE Supported conference</i> Prof. Iven Mareels, on behalf of Institute of Electrical and Electronics Engineers (IEEE) Power and Engineering Society, Victoria Chapter, Australia (5 mins)
<i>Message for Research Centre</i> Prof. Joarder Kamruzzaman, Centre for Smart Analytics (CSA), Federation University Australia (5 mins)
<i>Thanks</i> Prof. Raghuvir Pai (5 mins)

Room1 Coordinator and Support: Jo-ann Larkins

MORNING TEA: 10:30am to 11:00am

Day 1, Wednesday, 6th December 2023: Keynote session 1 (11:00am – 1:00pm)

Keynote session 1 Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus Session Chair: Prof. Raghuvir Pai Session co-chair: Jo-ann Larkins Room 1 Coordinator and Support: Venkata Sudula
11:00am-11:05am: Introductions by the Session Chair
11:05am-11:30am: Keynote 1: Dr Gopi Chattopadhyay: Maintenance and Reliability Engineering (MRE) Programmes Topic: Asset Management Supported By Maintenance And Reliability Engineering For Reducing Cost And Risks And Enhancing Performance.
11:30am-11:55am: Keynote 2: Prof. Iven Mareels, Federation University Australia Topic: Systems Engineering For Intelligent Maintenance Management
11:55am-12:20pm: Keynote 3: Ms. Sarah Hannah, Asset Management Council, Australia Topic: Leveraging Value From Australia's Solar And Wind Resources
12:20pm-12:45pm: Keynote 4: Mr. Toby Horstead, Asset Management Council, Australia Topic: The Third Line Of Assurance (Confidence In The Management Of Assets)
12:45pm-1:00pm: Q and A

LUNCH: 1:00pm to 1:45pm

Day 1, Wednesday, 6th December 2023: Technical Sessions (1:45pm – 3:30pm)

Technical Session 1A: Parallel Track room 1 (15 mins presentation and 5 mins Q/A) Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University Session Chair: Dr. Anne Gibbs Session co-chair: Jo-ann Larkins Room 1 Coordinator and Support: Venkata Sudula	
1:45pm – 1:50 pm	Introductions by the Session Chairs
1:50pm – 2:10 pm	Paper Presentation 1#: Paper38, Nikalus Sharpe Using Reliability Analysis Techniques to Support Component Life Extension on a Large Mining Dump Truck
2:10pm – 2:30 pm	Paper Presentation 2#: Paper60, Venkata Sai Prashanth Sudula, Gopinath Chattopadhyay and Jo Ann Larkins Life Extension of long-life assets using risk informed decision making.
2:30pm – 2:50 pm	Paper Presentation 3#: Paper23, Pankaj Kumar Kori, Pavan Kumar Kankar and Indrasen Singh Bearing fault analysis using tunable Q-factor wavelet transform
2:50pm – 3:10 pm	Paper Presentation 4#: Paper40, Raghuvir Pai Tribological aspects of using hydrogen as fuel in transportation: A review
3:10pm – 3:30 pm	Paper Presentation 5#: Paper35, Venkat Reddy Embedding Risk Based Decision Framework for Queensland Rail (Online)

Technical Session 1B: Parallel Track room 2 (15mins presentation and 5 mins Q/A) Room 2: A211/214 (Level 1, Building A) SMB Campus, Ballarat, Federation University Session Chair: Assoc. Prof. Ayon Chakraborty Session Co-chair: Dr. Harpreet Kandra Room 2 Coordinator and Support: Christopher Belfiore	
1:45pm – 1:50 pm	Introductions by the Session Chairs
1:50pm – 2:10 pm	Paper Presentation 6#: Paper 61, Aaron Wood, and Harpreet Kandra Modelling Moondarra reservoir storage for better asset management
2:10pm – 2:30 pm	Paper Presentation 7#: Paper62, Jyotindra Thapa and Harpreet Kandra Development of Water Footprint Calculator for Nepal
2:30pm – 2:50 pm	Paper Presentation 8#: Paper4, Nidhi Mundra, Rajesh Mishra, Ayon Chakraborty and Gopinath Chattopadhyay Lean Six Sigma, Agile Manufacturing, and their integration: A Systematic Literature review and Future Research Issues.
2:50pm – 3:10 pm	Paper Presentation 9#: Paper12, A Kumar, A Chakraborty, Manoj Khandelwal and Gopi Chattopadhyay A Systematic Review on Carbon Footprint and Water Footprint Reduction In The Mining Sector
3:10pm – 3:30 pm	Paper Presentation 10#: Paper 29, Helena Nikka Publico, Camela Del Rosario and John Emmanuel Gil Assessing Technological Advancements in Metro Manila (NCR): An Analysis on Construction Professionals' Perspective on the Utilization of Drones in Excavation Activities under Project Monitoring (Online)

Technical Session 1C: Parallel Track room 3 (15mins presentation and 5 mins Q/A) Room 3: A002 (Lower Ground Floor, Building A), SMB Campus, Ballarat, Federation University Session Chair: Prof. Rakesh Mishra Session Co-chair: Dr. Truong Phung Room 3 Coordinator and Support: Vickram Chundhoo	
1:45pm – 1:50 pm	Introductions by the Session Chairs
1:50pm – 2:10 pm	Paper Presentation 11#: Paper 59, Nishaan Kishore, Gopinath Chattopadhyay and Jan Harm C Pretorius Fourth Industry Revolution (4IR) interventions and technology for agricultural asset management and beyond (Online)
2:10pm – 2:30 pm	Paper Presentation 12#: Paper18, Dieudonne Kabeya Nahum and Gopinath Chattopadhyay Maintenance and reliability improvement of roller bearings operating at high temperature: Thermal stress analysis approach (Online)
2:30pm – 2:50 pm	Paper Presentation 13#: Paper33, Madhumenon Krishnamenon, Mostafa Rahimiazghadi and Rabin Tuladhar Automated knowledge discovery on asset condition from unstructured short text records (Online)
2:50pm – 3:10 pm	Paper Presentation 14#: Paper37, Rui Zhang and Gopi Chattopadhyay Quantitative Reliability Analysis on Falcon Gravity Concentrator Bowl (Online)
3:10pm – 3:30 pm	Paper Presentation 15#: Paper52, Brenton Houchen The reliability of sewer main inspection and remediation models for regional water utilities (Online)

AFTERNOON TEA: 3:30pm to 4:00pm

Day 1, Wednesday, 6th December 2023: Technical Session 2 (4:00pm – 5:30pm)

Technical Session 2A: Parallel Track room 1 (15mins presentation and 5 mins Q/A)

Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University

Session Chair: Prof. Raghuvir Pai

Session co-chair: Dr Kyoumars Bahrami

Room 1 Coordinator and Support: Venkata Sudula, Hari Krishna Menta Venkata

4:00pm – 4:05 pm	Introductions by the Session Chairs
4:05 pm – 4:25 pm	Paper Presentation 16#: Paper19, Dr Kyoumars Bahrami and Alex Pavlickovski, Achievement of “Destination Zero Goals” through Improving Asset Reliability and Maintenance Management at V/Line
4:25 pm – 4:45 pm	Paper Presentation 17#: Paper13, Ravi Welandage Don, Gopinath Chattopadhyay and Joarder Kamruzzaman Life Cycle Cost Modelling and Analysis for life extension decisions of long-life assets with limited data
4:45 pm – 5:05 pm	Paper Presentation 18#: Paper24, Lufuno Mandaha, Jan-Harm Pretorius and Tebello N.D. Mathaba Cost Effectiveness of a Maintenance Model within a South African Petroleum Facilities Distributor
5:05 pm – 5:25 pm	Paper Presentation 19#: Paper25, Glen Mfenguza, Jan Harm C Pretorius and Tebello Mathaba The impact of integrating solar photovoltaic generators on a grid connected systems
5:25 pm – 5:30. Pm	Wrap up of the day and any updates

Technical Session 2B: Parallel Track room 2 (15mins presentation and 5 mins Q/A)

Room 2: A211/214 (Level 1, Building A) SMB Campus, Ballarat, Federation University

Session Chair: Dr. Harpreet Kandra

Session co-chair: Dr. Manoj Khandelwal

Room 2 Coordinator and Support: Christopher Belfiore

4:00pm – 4:05 pm	Introductions by the Session Chairs
4:05 pm – 4:25 pm	Paper Presentation 20#: Paper8, Bheki Makhanya and Jan-Harm Pretorius Comparing the Use of Preventive Maintenance in The Industry: The Literature Review (Online)
4:25 pm – 4:45 pm	Paper Presentation 21#: Paper9, Athi Ntisana, Patrick S. Pouabe Eboule and Jan Harm C. Pretorius Standalone Solar PV System Against Utility-Scale Solar PV Power Plant Effectiveness in the South African Environment (Online)
4:45 pm – 5:05 pm	Paper Presentation 22#: Paper10, Mamphekgo Jerry Masemola, Patrick S. Pouabe Eboule and Jan Harm C. Pretorius Investment Cost Benefit in Mobile Welding Robotics for Sub-Assembly Manufacturing (Online)
5:05 pm – 5:25 pm	Paper Presentation 23#: Paper11, Nthsuxeko Difference Ngamba, Patrick S. Pouabe Eboule and Jan Harm C. Pretorius Risk Management Steps for Companies Strengthening their Performances (Online)
5:25 pm – 5:30 pm	Wrap up of the day and any updates

Technical Session 2C: Parallel Track room 3 (15mins presentation and 5 mins Q/A) Room 3: A002 (Lower Ground Floor, Building A), SMB Campus, Ballarat, Federation University Session chair: Prof. Rakesh Mishra and Assoc. Prof. Ibrahim Sultan Session co-chair: Assoc. Prof. Ayon Chakraborty Room 3 Coordinator and Support: Nik Sharpe	
4:00pm – 4:05 pm	Introductions by the Session Chairs
4:05 pm – 4:25 pm	Paper Presentation24#: Paper31, Baba Musa Abbagoni and Rakesh Mishra Investigation of an ultrasound pulse-echo method for measuring the gas-liquid interface of air-water two-phase in a horizontal pipe.
4:25 pm – 4:45 pm	Paper Presentation25#: Paper55, Mubarak Aderibigbe, Rakesh Mishra and Aliyu Aliyu An Industrial Internet-of-Things (IIOT) Infrastructure for Digital Twin Models of Control Valves
4:45 pm – 5:05 pm	Paper Presentation26#: Paper63, Jaya Kumari, Ramin Karim, Pierre Dersin Augmented Asset Management of Railway System: A fleet-based approach using hierarchical models (Online)
5:05 pm – 5:25 pm	Paper Presentation27#: Paper32, Edoghogho Ogbeifun and Jar-Harm C Pretorius Aesthetics an overrated factor in building design (Online)
5:25 pm – 5:30 pm	Wrap up of the day and any updates

Day 1, Wednesday, 6th December 2023: Networking and Poster Session 2 (5:30 – 6:30pm)

Networking and Poster session Foyer, Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University Session chair: Prof. Pavan Kumar Kankar and Dr. Truong Phung Session co-chair: Vickram Chundhoo Foyer Coordinator and Support: Alana Auden
Brief introductions by the sponsors Networking and nibbles Posters on display from 4:30pm – 6:30pm

Day 2, Thursday, 7th December 2023: Keynote Session 2 (Registration from 8:30am, Session: 9:00am – 10:30am)

Keynote session 2

Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University

Session chair: Prof Iven Mareels

Session co-chair: Dr. Gopinath Chattopadhyay

Room 1 Coordinator and Support: Venkata Sudula

9:00am-9:05am: Introductions by the Session Chair

9:05am-9:30am: **Keynote 5:** Dr. Glenn Schumacher: Head of Engineering, EnergyAustralia
Topic: Making Asset Management Real

9:30am-9:55am: **Keynote 6:** Mr. Ashay Prabhu, International Advisor Government Finance U.S.A and Co-Founder ACEAM Australasia
Topic: Global Trends in Strategic Asset Management

9:55am-10:20am: **Keynote 7:** Rev. Swami Suhitananda, Ramakrishna Mission, Belur Math, India
Topic: Values Vis-À-Vis Human Asset

10:20am-10:30am: Q and A

MORNING TEA: 10:30am to 11:00am

Day 2, Thursday, 7th December 2023: Technical Session 3 (11:00am-12:45pm)

Technical Session 3A: Parallel Track room 1 (15mins presentation and 5 mins Q/A) Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University Session chair: Assoc. Prof. Gour Karmakar Session co-chair: Dr. Narottam Das Room1 Coordinator and Support: Venkata Sudula	
11:00am – 11:05 am	Introductions by the Session Chairs
11:05am – 11:25 am	Paper Presentation 28#: Paper14, Vickram Chundhoo, Gopinath Chattopadhyay, Gour Karmakar and Gayan Kahandawa Appuhamillage, A framework for implementing Total Productive Maintenance aligned with ISO55001 standard for asset management.
11:25am – 11:45 am	Paper Presentation 29#: Paper41, Fungai Dumba, Abdul Mazid, Subhash Sharma, Narottam Das, Neamul Khandoker and Sumaiya Islam Optimising Maintenance Strategy of Haul Trucks to Enhance Availability
11:45am – 12:05pm	Paper Presentation 30#: Paper34, Matthias Asplund and Lars-Ove Jönsson, A systematic approach to improve ride comfort in passenger trains (Online).
12:05pm – 12:25 pm	Paper Presentation 31#: Paper42, Moustafa Elsayyad, Narottam Das, Muhammad Saiful Islam, Abdul Mazid and Subhash Sharma Maintenance Strategy Transformation in the Parcel Industry Based on ISO55001 Standards
12:25pm – 12:45pm	Paper Presentation 32#: Pape53, Mohammad Ruhail Gulzar, Rakesh Mishra, Frankie Jackson, Samira Awwal, Shirshendu Sikdar, Fiona Conor and Scott Conor Evaluation of thermal comfort in a smart house heated by a modern storage radiator

Technical Session 3B: Parallel Track room 2 (15mins presentation and 5 mins Q/A)
Room 2: A211/214 (Level 1, Building A) SMB Campus, Ballarat, Federation University

Session Chair: Assoc. Prof. Ayan Chakraborty

Session co-chair: Dr Tebello N.D. Mathaba

Room 2 Coordinator and Support: Christopher Belfiore

11:00am – 11:05 am	Introductions by the Session Chairs
11:05am – 11:25 am	Paper Presentation 33#: Paper56, Aminu Isiyaku, Rakesh Mishra, Aliyu Aliyu and Frankie Jackson Influence of Radiator Operation on Indoor Air Dynamics in the Huddersfield Smart House: A Computational Analysis
11:25am – 11:45 am	Paper Presentation 34#: Paper54, Abdelmenem Abobghala, Naeem Mian, Nigel Schofield, Mahmud Ahmed and Pelonomi Oagile Development of a Model for Induction Motor and Drive Parameter Estimation Using Statistical Analysis
11:45am – 12:05pm	Paper Presentation 35#: Paper27, Shirsendu Sikdar and Rakesh Mishra Intelligent Condition Monitoring of Wind Turbines Under Variable Loading and Operating Conditions
12:05pm – 12:25 pm	Paper Presentation 36#: Paper 17, Anirudh Gautam, Development of a RAMS and PHM structure for rolling stock of Indian Railways (Online)
12:25pm – 12:45pm	Paper Presentation 37#: Paper47, Ryan Snell Analysis of pressure sewer pump reliability for the Loch Sport Sewerage Scheme (Online)

Technical Session 3C: Parallel Track room 3 (15mins presentation and 5 mins Q/A)
Room 3: A002 (Lower Ground Floor, Building A), SMB Campus, Ballarat, Federation University

Session Chair: Dr. Abdul Chowdhury

Session co-chair: Nik Sharpe

Room 2 Coordinator and Support: Vickram Chundhoo

11:00am – 11:05 am	Introductions by the Session Chairs
11:05am – 11:25 am	Paper Presentation38#: Paper46, John Evans Optimisation of Component Preventative Maintenance Interval and Spares. (Online)
11:25am – 11:45 am	Paper Presentation39#: Paper48, Dwayne McAlpine Weibull Analysis on Groundwater Pumping Infrastructure. (Online)
11:45am – 12:05pm	Paper Presentation40#: Paper49, Adewale Oyeku, Gopi Chattopadhyay and Tosin Famakinwa Development of a Preventive Maintenance Strategy in Engineering Teaching and Research Laboratories (Online)
12:05pm – 12:25 pm	Paper Presentation41#: Paper51, Chinedu Manu and Gopi Chattopadhyay Improvement of The Reliability and Availability of MTN Network Signal Using Reliability Data Maintenance, FMEA (Failure Mode and Effect Analysis), and Fault tolerance Technique. (Online)
12:25pm – 12:45pm	Paper Presentation42#: Paper26, Bilal Ajmal, Gopi Chattopadhyay and Indra Gunawan Analysis on Operational Life Extension of Haulage Trucks. (Online)

LUNCH: 12:45 pm to 1:30pm

Day 2, Thursday, 7th December 2023: Workshop (1:30pm – 3:15pm)

Panel Discussion on Rural and Regional Council Asset Management: Parallel Track room 1 Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, , Ballarat, Federation University Session chair: Dr Anne Gibbs, AMC Australia Session Co-chair: Prof H Mishra, IRMA and Dr. Harpreet Kandra, Federation University Australia Room1 Coordinator and Support: Jo-ann Larkins	
1:30pm – 1:35 pm	Welcome and Leveraging Assets to support SDGs- Global Perspectives Prof Harekrishna Misra, IRMA, India
1:35 pm – 1:50 pm	Panel Speaker 1: Tina Perfrement, City of Greater Geelong
1:50 pm – 2:05 pm	Panel Speaker 2: Darren Wilson, City of Greater Dandenong
2:05 pm – 2:20 pm	Panel Speakers 3 and 4: Bridget Wetherall, Director, Infrastructure and Environment and Vaughn Notting, Executive Manager Infrastructure, City of Ballarat
2:20 pm – 2:35 pm	Panel Speaker 5: Dr K K Tripathy, Chief Economic Advisor, Health infrastructure and Assets, Ministry of Health, Government of India (online)
2:35 pm – 3:15 pm	Q and A

Technical Session 4: Parallel Track room 2 (online presentations) Room 2: A211/214 (Level 1, Building A) SMB Campus, Ballarat, Federation University Session Chair: Dr Tebello N.D. Mathaba Session co-chair: Assoc. Prof. Gour Karmakar and Dr. Truong Phung Room 2 Coordinator and Support: Vickram Chundhoo	
1:30pm – 1:35 pm	Introductions by the Session Chairs
1:35 pm – 1:55 pm	Paper Presentation 43#: Paper22, Erik Vandenberg An Asset Management approach to the Energy Trilemma (Online)
1:55 pm – 2:15 pm	Paper Presentation 44#: Paper57, Hossein Fatahian, Rakesh Mishra and Esmaeel Fatahian, Aerodynamic improvement of a horizontal axis wind turbine by passive flow control using a slotted blade: An optimization investigation. (Online)
2:15 pm – 2:35 pm	Paper Presentation 45#: Paper50, Timothy Croot Reviewing the impact of 229mm drilling configuration on a Smaller Drill configuration (Online)
2:35 pm – 2:55 pm	Paper Presentation 46#: Paper20, Anil Kapoor Humanizing assets Management 4.0 – redefining iso standards & disruptive trends in MRO (Online)

AFTERNOON TEA: 3:15pm to 3:45pm

Day 2, Thursday, 7th December 2023: Keynote speaker Session 3 (3:45pm – 5:40pm)

Keynote Sessions 3A Room 1: Seminar theatre, Breweries Complex, Building T, SMB Campus, Ballarat, Federation University Session Chair: Dr. Anne Gibbs Session Co-chair: Dr. Gopi Chattopadhyay Room1 Coordinator and Support: Jo-ann Larkins	
3:45pm – 3:50 pm	Introductions by the Session Chairs
3:50 pm – 4:15 pm	Keynote address 8: Prof. Syed Islam, Federation University Australia Topic: Impact Of Load Ramping On Dissolved Gas In Oil In Transformers
4:15 pm – 4:40 pm	Keynote address 9: Prof. Raghuvir Pai, Manipal, India Topic: Tribological Aspects Of Using Hydrogen As A Fuel In Transportation
4:40 pm – 5:05 pm	Keynote address 10: Prof. Rakesh Mishra, UK Topic: Development Of Digital Twins For Condition Monitoring Of Mechanical Systems.
5:05 pm – 5:30 pm	Keynote address 11. Dr. Kin Yu Lam, Philip Reilly and Janet Tan, Australia (#Paper 45) Topic: Meeting the Challenges of the New Energy World with Natural Ester Dielectric Fluid
5:30 pm – 5:45 pm	Q and A

Day 2, Thursday, 7th December 2023: Keynote speaker Session 3 (3:45pm – 5:45pm) (online presenters)

Keynote Sessions 3B Room 2: A211/214 (Level 1 of Bldg A) SMB Campus, Ballarat, Federation University Session Chair: Dr. Harpreet Kandra and Assoc. Prof Ibrahim Sultan Session co-chair: Dr. Abdul Chowdhury Room2 Coordinator and Support: Nik Sharpe	
3:45pm – 3:50 pm	Introductions by the Session Chairs
3:50 pm – 4:15 pm	Keynote address 12: Prof Joarder Kamruzzaman (Online) Topic: AI For Asset Management And Industry 4.0 And Beyond
4:15 pm – 4:40 pm	Keynote address 13: Prof. Alok Verma (Online) Topic: Decarbonization In Maritime Shipping Industry For A Net Zero Future
4:40 pm – 5:05 pm	Keynote address 14: Prof. Ramin Karim, LTU, Sweden (Online) Topic: Intelligent Asset Management – Possibilities And Challenges
5:05 pm – 5:30 pm	Keynote address 15: Prof. Harekrishna Misra, IRMA, India (Online) Topic: Rural Digital Transformation and SDGs: Exploring the Effects of Digital Assets in India
5:30 pm – 5:45 pm	Q and A

CONFERENCE DINNER and Performances: 7:00 pm to 9:30pm

Day 3, Friday, 8th December 2023: Industry Panel Session (Registration from 8:30am, Session: 9:00am – 11:00am)

Room1 Industry Panel Session Session Chair: Dr. Shantanu Kumar Session Co-chair: Dr. Hui Ma , Room1 Coordinator and Support: Jo-ann Larkins	
9:00am- 11:00pm	Introductions of Panel session on Emerging Trends in design, operation and maintenance of power transformers. Session Chair Dr. Shantanu Kumar, BHP, Australia Dr. Hui Ma, The University of Queensland., Australia Mr. Philip Reilly, Mr. Kin Yu Lam from Cargill, Australia Mr. Mick Weston, Mr. Raul Barrera from Voltex, Australia Mr. Tim Popkiss , Intertech Engineering Pty Ltd, Australia Q and A and closing comments by Dr. Shantanu Kumar, Australia

MORNING TEA : 11:00am to 11:30am

Room1 Keynote Session Session Chair: Prof. Iven Mareels Session Co-chair: Dr. Gopi Chattopadhyay Room1 Coordinator and Support: Jo-ann Larkins	
11:30am – 12:00 pm	Keynote address 16: Mr. Yuvaraj Kumar, IBM, Australia Topic: Enterprise Asset Management And Asset Performance Management Are Pivotal In Propelling Customers Along The Asset Management Maturity Curve

Day 3, Friday, 8th December 2023: Closing Session (12:15pm – 12:45pm)

Master of Ceremony: Dr. Gopi Chattopadhyay, General Chair of ICMIAM2023 conference (5mins)
Address by Guest of Honour: Dr. Glenn Schumacher (10 mins)
<i>Thanks from Technical Program Committee</i> Assoc. Prof. Gour Karmakar, Technical Program Committee of ICMIAM2023 (5mins)
<i>Thanks from Conference Organisation team</i> Dr. Gopi Chattopadhyay, General Chair ICMIAM2023(5 mins)
<i>Announcement about ICMIAM 2024 (5 mins)</i> Dr Charu Khosla, Director (Academics & Research), Office of International Affairs, Chitkara University, India
Closing: Dr. Gopi Chattopadhyay, General Chair of ICMIAM2023 conference (5 mins)

Lunch: 12:45pm to 1:30 pm

TECHNICAL TOUR 1:30pm to 5pm