



**MANIPAL**  
ACADEMY of HIGHER EDUCATION

*(Deemed to be University under Section 3 of the UGC Act, 1956)*

**Federation**  
UNIVERSITY • AUSTRALIA



ASSET MANAGEMENT  
COUNCIL

International Conference on  
**Maintenance and Intelligent  
Asset Management**

**ICMIAM-2020**

January 17-18, 2020

Venue:

Manipal Academy of Banking, Bangalore



Organised by:

**Department of Mechanical and Manufacturing Engineering**

Manipal Institute of Technology

Manipal Academy of Higher Education

Manipal 576 104, Karnataka, India

In Association with

**Federation University, Australia** and  
**Asset Management Council, Australia**

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## CALL FOR PAPERS

Authors are required to send a softcopy of the extended abstract of original and unpublished research work through email to [icmiam2020@gmail.com](mailto:icmiam2020@gmail.com) on or before 31<sup>st</sup> August, 2019. The extended abstract should be limited to one A4 size page, which should include the objective, methodology, results and conclusion. The language of the conference will be English. Two types of copies of the abstracts, one in MS word and the other in pdf format with single spacing (12 pt, Times New Roman) should be submitted. The authors should mention their affiliation with corresponding addresses, email, telephone and fax numbers. Submission of the extended abstract will be accepted only through email.

Upon acceptance, the authors have to submit the full paper as per conference format. The final acceptance of the paper for oral presentation / poster presentation will be based on peer review. Arrangements have been made to publish selected papers in reputed international journals as per the editorial policy of the journal. It may be noted that the submitted papers must not be under consideration by any other journal or publication.

## TOPICS OF INTEREST (but are not limited to)

Asset Management

Lifecycle Cost Analysis

Remaining Useful Life Analysis

ISO55000 and related standards

Tribology

Digital Asset Management

Energy Management

Smart Grids

Water Management

Water Audit Analysis

Machine Learning and Artificial Intelligence for Machine Health Diagnostics

Cyber Security Challenges and Risk Management

Industrial IoT

Data Analytics

Reliability and Resilience

Risk and Performance Assessment

Asset Life Cycle Cost and Efficiency

Regulations and Compliance

Condition Based Maintenance

ISO55001 Certification and Beyond

## OVERVIEW OF THE CONFERENCE

Industrial and municipal assets have a number of systems and subsystems, hardware, sensors and software including rotating and sliding parts. It is well known that failure mechanism and degradation behaviour of these parts and subsystems influences life of those systems.

In order that informed decisions are taken by maintenance, reliability and asset management professionals to improve performance and productivity, it is imperative that the behaviour of machine components and sub systems with regard to the performance of the system, costs and risks associated with various options in maintenance and replacement decisions are better understood. But there are issue's and challenges in understanding these by maintenance, reliability and asset management professionals. The tools and techniques necessary for better maintenance can be developed and applied with an enhanced understanding of tribology.

In recent years, the concept of Industry 4.0 which deals with Remote Performance Monitoring (RPM), Internet of Things (IoT), Advanced Robotics, Machine and Deep Learning, Cloud Computing and Data Analytics is making a significant contribution to maintenance, reliability and asset management. The evolution of these maintenance philosophies along with international standards including ISO55000 series have been influenced by the developments in a host of technologies, decision models and asset management framework.

Internet of Things (IoT), Artificial Intelligence and Big Data Analytics are changing our lives in every sphere. These technologies and analytics are going to have a significant impact on how maintenance, reliability and asset management strategies evolve.



## ABOUT THE UNIVERSITY

Manipal Academy of Higher Education [www.manipal.edu](http://www.manipal.edu) is well known not just in India, but the world over. Although it got the deemed university status in 1993, the seeds for its magnificent growth were sown way back in 1953 with the setting up of the flagship Kasturba Medical College on what was then a barren hilltop. The last sixty six years have seen institutes at Manipal taking meticulous and meaningful steps to build reservoirs of intellectual wealth and academic excellence. In the process, Manipal University has created some of the country's best institutes/schools across several diverse streams like medicine, dentistry, nursing, engineering, pharmacy, hotel management, allied health, architecture and design, communication etc. Each institution/school at Manipal is geared to meet the same demanding standards to create great professionals and citizens by inspiring them in many ways.

### Department of Mechanical and Manufacturing Engineering

Started in the year 1960, the Department of Mechanical and Manufacturing Engineering (MME) <https://manipal.edu/mit/department-faculty/department-list/mechanical-and-manufacturing.html> is the largest department in the Institute comprising 2 undergraduate and 4 postgraduate programs. The department's strength lies in having a good number of experienced and well qualified faculty and state-of-the-art infrastructural facilities. Innovative teaching methods are followed to impart quality education to the students. Department is recognized as Quality Improvement Program (QIP) minor Centre by MHRD, Govt of India, which has given a boost to the research activities in the department.

## FEDERATION UNIVERSITY, AUSTRALIA

At Federation University [www.federation.edu.au](http://www.federation.edu.au), the desire to transform lives and enhance communities informs everything we do. From research that improves people's lives right around the world, to supporting our students to succeed at their studies and in life – we make a difference.

With both university and TAFE campuses in Ballarat, Berwick, Brisbane, Gippsland and the Wimmera, we became Federation University in 2014 – a new entity bringing together almost 150 years of history from our predecessor institutions.

As a young university, we have the energy and optimism of youth combined with the knowledge and experience that comes from our history as one of the oldest universities in Australia, dating back to 1870.

We are a diverse community with over 24,000 domestic and international students and 110,000 alumni across Australia and the world. We are creating a Federation of independent thinkers, of like-minded individuals who are determined to make their mark.



## ASSET MANAGEMENT COUNCIL, AUSTRALIA

The Asset Management Council [www.amcouncil.com.au](http://www.amcouncil.com.au) is a membership-based, not-for-profit organization, a Technical Society of Engineers Australia, a founding member of the Global Forum on Maintenance and Asset Management (GFAMAM) and a founding member of the World Partners in Asset Management (WPIAM).

As an internationally recognized organisation at the forefront of asset management knowledge and development, we provide information and guidance on asset management across a multitude of industries and professional roles, both in Australia and overseas. Our professional services, technical knowledge, and organisational experience act as a platform for professional development and industry recognition, and our international affiliations link our stakeholders to a community whose knowledge and experience is drawn from all levels of practice.

Our vision is to "enable value from effective asset management"



## REGISTRATION DETAILS

Registration fees includes 18% GST

Additional bank charges will be borne by the participants

		Early on or before 30/11/2019	Regular on or before 15/12/2019
1.	Academics and Research Scholars		
	Foreign	USD 354.00	USD 472.00
	Indian	INR 7080.00	INR 9440.00
	Indian (MAHE)	INR 6000.00	INR 8000.00
2.	R and D Institutes/ Industries		
	Foreign	USD 413.00	USD 531.00
	Indian	INR 10620.00	INR 14160.00
3.	Students		
	Foreign	USD 236.00	USD 295.00
	Indian	INR 3540.00	INR 4720.00
	Indian (MAHE)	INR 3000.00	INR 4000.00
4.	Spot Registration		
	Foreign	Regular registration + USD 100	
	Indian	Regular registration + 25%	

Online payment can be made through:

<https://conference.manipal.edu/Registration/>



Indian participants can make the payment in the form of Demand Draft drawn in favour of **Manipal University Conference/Workshop** payable at Manipal or Udupi.

Bank Name & Address : State Bank of India  
Manipal, Karnataka, India

Savings Bank Account No. : 33508958510

IFSC Code : SBIN0004426

Note: The registration fee includes delegate kit, admission to all sessions, conference materials and lunch on conference days. Accommodation can be arranged in nearby hotels on payment basis.

## IMPORTANT DATES

Conference dates > **17<sup>th</sup> and 18<sup>th</sup> January, 2020**

Abstract submission > **31<sup>st</sup> August, 2019**

Abstract acceptance > **15<sup>th</sup> September, 2019**

Full paper submission > **15<sup>th</sup> October, 2019**

Full paper acceptance > **30<sup>th</sup> November, 2019**

Early bird Registration > **30<sup>th</sup> November, 2019**

Last Date for Registration > **15<sup>th</sup> December, 2019**

Note: International participants are urged to register by the scheduled date to facilitate the visa approval by the Government of India.

## ADDRESS FOR COMMUNICATION



International Conference on Maintenance and Intelligent Asset Management (ICMIAM 2020)

Department of Mechanical and Manufacturing Engineering

Manipal Institute of Technology

Manipal Academy of Higher Education

Manipal - 576104, Karnataka, India.

Ph: +91-820-2925462 Fax: +91-820-2571071

Email: [icmiam2020@gmail.com](mailto:icmiam2020@gmail.com)

Website: <https://conference.manipal.edu/ICMIAM2020/>

## SPONSORSHIP DETAILS



Category	Foreign Sponsors	Indian Sponsors	Privileges
Platinum	USD 7500.00	INR 100,000.00	Logo in website and Souvenir. Colour advertisement in the back page of souvenir. One exhibition stall 3m x 3m. Free Registration for 3 delegates+Business meet
Gold	USD 3500.00	INR 75,000.00	Colour advertisement in the inside front page of souvenir. One exhibition stall 3m x 3m. Free Registration for 3 delegates+Business meet
Silver	USD 2500.00	INR 50,000.00	Colour advertisement in the souvenir. One exhibition stall 3m x 3m. Free Registration for 2 delegates +Business meet
Bronze	USD 1500.00	INR 20,000.00	Half page colour advertisement in the souvenir.

**Venue:** Manipal Academy of Banking, Survey 36, Chokkanhalli, Off Thanisandra Main Road, Jakkur Post, Bangalore North, Bangalore 560064

**Land Mark:** On Road leading to Bharatiya City after Diana college and Regal Hospital when coming from Nagawara.





Manipal Institute of Technology, Manipal - Aerial View