

PUBLICATION

All full papers accepted for the Congress will be peer reviewed and published by Springer-Verlag on the official Congress CD following the Congress. Selected papers will be published in the Engineering Asset Management Reviews to be published by Springer in due course.

All accepted abstracts will be included in the Congress Handbook which will be issue in the delegate satchel at the congress.

KEY DATES

Full papers received: 14 June 2010

Notification to authors of final acceptance by: 2 August 2010

**Final Paper Submission Consent to Publish
Deadline and Speaker Registration: 10 September 2010**

EXHIBITION

A trade exhibition will be held during the Congress providing organisations with the opportunity to promote their latest products and services. Please contact the Congress Secretariat for further information.



COMMITTEES

Congress Chair: Professor Joseph Mathew, CRC for Integrated Engineering Asset Management, Australia

Co-Chairs: Professor David Taplin, University of Greenwich, UK

Professor Margot Weijnen, Next Generation Infrastructures Foundation, Delft University of Technology, The Netherlands

Professor Jay Lee, NSF I/UCRC on Intelligent Maintenance Systems, (IMS), University of Cincinnati, USA

Adjunct Professor David Hood, Queensland University of Technology, Australian Green Infrastructure Council (AGIC).

ORGANISING COMMITTEE

Chair: Professor Lin Ma, Queensland University of Technology, Australia

Professor Kerry Brown, Southern Cross University, Australia

Professor Alberto Carpinteri, Politecnico di Torino, Italy

Adjunct Professor Jimin He, CRC for Integrated Engineering Asset Management, Australia

Doug Harland, Australian Green Infrastructure Council

Adjunct Professor David Hood, Queensland University of Technology, Australia

Professor Rhys Jones, Monash University, Australia

Professor Brett Kirk, University of Western Australia, Australia

Professor Andy Koronios, University of South Australia, Australia

Professor Yiu-Wing Mai, University of Sydney, Australia

Professor Yu Shouwen, Tsinghua University, P R China

Professor Andy Tan, Queensland University of Technology, Australia

Jane Davis, CRC for Integrated Engineering Asset Management, Australia

Rhonda Hendicott, HI Event Management, Australia

CONGRESS SECRETARIAT

HI Event Management

7A/53 Tribune St, South Brisbane, Qld, Australia 4101

PO Box 12563, George St Post Shop Brisbane, Qld, Australia 4003

Tel: +617 3210 1646

Fax: +617 3210 1606

Email: wceam@hievents.com.au

Web: www.wceam.com

2nd Announcement



WCEAM
World Congress on
Engineering Asset Management

The 5th World Congress on Engineering Asset Management
(WCEAM & ICF/IQ & AGIC 2010)



25-27 October 2010
Brisbane, Queensland, Australia

Congress Hosts



Congress Organisers



INVITATION TO ATTEND

The 5th World Congress on Engineering Asset Management (WCEAM-ICF/IQ-AGIC) to be held in Brisbane Queensland, Australia from 25-27 October 2010 will be a confluence of the meetings of the regular series with the 2010 International Congress on Fracture Interquadrennial (ICF/IQ 2010) and the 2010 Annual Conference of the Australian Green Infrastructure Council (AGIC).

The World Congress on Engineering Asset Management (WCEAM, www.wceam.com) is the annual meeting of the International Society of Engineering Asset Management (ISEAM, www.iseam.org) and originated from a biennial series of the Asia-Pacific Conference on Systems Integrity and Maintenance (ACSIM) which ended in 2005. The inaugural event of this new annual series began in 2006 in the Gold Coast in Australia. It was organised by the CRC for Integrated Engineering Asset Management (CIEAM), and the Maintenance Society of Australia (MESA) with strong support from the Intelligent Maintenance Systems Center (IMS), USA. In 2007, it was organised by the British Institute for Non-Destructive Testing in Harrogate, UK and moved to Beijing in October 2008 when it was organised by the Beijing University of Chemical Technology and the Intelligent Maintenance Systems Center, USA. The fourth in the series was organised by the Hellenic Maintenance Society, CIEAM and ISEAM and was held in Athens, Greece in September 2009.

The Australian Green Infrastructure Council (AGIC) is an emerging not for profit incorporated Australian industry association and has been formed by a group of industry professionals from engineering, environmental, planning, legal, financial and construction backgrounds working in both private and public organisations related to infrastructure (<http://www.agic.net.au>). AGIC is developing the world's first sustainability rating and award scheme for infrastructure with the aim to transform the infrastructure industry in relation to sustainability practices. AGIC will bring practical case studies of sustainability in infrastructure to the congress through a single stream to be held on 26 October.

The rationale for the combined meeting – Engineering Asset Management is concerned with determining optimum service levels for assets while minimising risks, costs and enhancing natural and social capital. Infrastructure and industrial assets, if not maintained properly will degrade and often degradation starts as structural fatigue which leads to fracture and eventual failure. Unexpected downtime and stoppages no doubt cost asset owners dearly. Combining the AGIC and ICF/IQ conferences with WCEAM will provide significant synergies in the reporting of research endeavours and the various communities of practice in these vital areas. While it will provide the ICF community the umbrella view of the potential outcomes for their work in fracture and failure progression, it will also provide the WCEAM and AGIC communities with valuable insights into the failure mechanisms (diagnostics) and prognostics of asset health as well as the mechanisms to measure sustainability outcomes. Traditional asset management will also gain insights into the new challenges that face infrastructure owners in a carbon constrained world through the AGIC and the “Lifecycle & Sustainability considerations of Physical Assets” sessions at the congress.

Brisbane is a vibrant, friendly, lifestyle city - home to leading research in the technological and medical sciences. It is a thriving industry hub in the heart of Australia's premier tourist region and close to some of the world's greatest natural attractions.

The objective of WCEAM & ICF/IQ & AGIC 2010 is to bring together leading academics, industry practitioners and research scientists from around the world to:

- Advance the body of knowledge in Engineering Asset Management (EAM),
- Strengthen the link between industry and academia,
- Promote the development and application of research, and
- Showcase state-of-the-art technologies.

Recognised academics and researchers will present their frontier findings and achievements, while leading industries and service providers will showcase applications and state-of-the-art technologies. Several distinguished keynote speakers will be invited to present the latest developments in the field. In addition WCEAM will host special sessions, panel discussions and workshops.

CALL FOR PAPERS

Papers of interest to engineering asset management, fracture mechanics and infrastructure sustainability researchers and practitioners are requested for WCEAM & ICF/IQ & AGIC 2010. All paper presenters will be eligible to register for the Congress at the reduced speakers' registration fee. Details about registration fees will be released in mid-2010.

Abstract Deadline: 26 April 2010



TOPICS AND APPLICATION STREAMS

This call for papers intends to draw worldwide multidisciplinary and transectoral expertise that will stimulate fresh discussion. We encourage papers from both research and industry professionals on the following topics and industry streams:

TOPICS

- Advanced Maintenance Strategies (RCM, CBM, RBI)
- Condition monitoring, diagnostics, and prognostics
- Decision support & optimization methods and tools
- Education and training in asset and maintenance management
- E-Maintenance
- Emerging technologies & embedded sensors and devices for EAM
- Human dimensions in integrated asset management
- Intelligent maintenance systems
- Lifecycle & sustainability considerations of physical assets
- Mechanisms of fracture, fatigue and strength of solids
- Performance Monitoring and Management
- Planning and scheduling in asset and maintenance management
- Policy, Regulations, Practices and Standards for asset management
- Procurement and Contracting
- Quality of information and knowledge management for EAM
- Risk management in EAM
- Reliability modelling and prediction
- Safety, Health and Risk Management in EAM
- Self-maintenance and self-recovery engineering
- Strategic asset management for sustainable business
- Structural integrity and health management
- Technologies for asset data management, warehousing and mining

ABSTRACTS AND INDUSTRY PAPERS

Individuals, organisations and institutions desiring to present peer reviewed papers at the Congress are encouraged to submit an extended abstract of 300 words. Abstracts will be reviewed and accepted authors will be required to submit a full paper for peer review prior to the final submission deadline.

The congress also invites industry participants to present their advanced findings on applications/case studies, either as technical papers or as PowerPoint presentations. All authors/presenters will be required to submit a 300 word abstract for consideration by the program committee. Abstracts and papers and presentations will need to be submitted online at www.wceam.com.