

第八屆世界工程資產管理會議及第三屆國際管綫管理及安全會議

30th October 2013 - 1st November 2013

www.wceam2013.com

- ➔ **First joint meeting on Asset Management and Utility Safety in the Asia Pacific region**
- ➔ **Record of almost 300 abstracts from over 35 countries**
- ➔ **Over 20 esteemed academia & industrial keynote speakers**

Guests of Honor



Prof. KUO Way, JP



Ir Dr. Hon. LO Wai-kiwok, BBS, MH, JP



Ir WAI Chi-sing, JP

**CHAIRMAN of
Organizing Committee**



Ir. Dr. TSE Wai-tat, Peter

**CHAIRMAN of
Congress Committee**



Ir. Dr. King WONG

**Early bird close on
16th August 2013**

Academic Theme for WCEAM 2013:

**Systems, Informatics and Prognosis
in Engineering Asset Management**
(學術) - 知識工程資產管理的系統情報及預測

Industry Theme for WCEAM 2013:

**Professional Practices and Certification in
Engineering Asset Management**
(工業) - 知識工程資產管理 - 專業實踐及認證

Theme for ICUMAS 2013:

**The Underground Assets (Utilities)
Management in the New Era**
地下資產(管綫)管理邁向新紀元

Keynote Speakers



Prof. Andrew JARDINE



Mr. Andy HESS



Prof. Joe AMADI-ECHENDU



Ir CHAN Fan, Frank, JP



Ms. FUNG Yin-suen, Ada, JP



Prof. GAO Jinji



Prof. David HOOD



Prof. HUANG Hong-zhong



Prof. Dundar F. KOCAOGLU



Prof. Jay LEE



Prof. Jayantha Prasanna LIYANAGE



Mr. Glen MULLINS



Mr. NG Chi-pui



Dr. Khelad OBAIA



Prof. Michael PECHT



Mr. Steve SALADINE



Prof. Mutasim SALMAN



Prof. Niranjana SARUP



Prof. David TOTMAN



Prof. TSUI Kwok-leung



Prof. Seppo VRITANEN



Prof. WANG Zili



Ir WONG Chung-leung



Mr. John WOODHOUSE



Prof. XIE Min

Joint Organizers



Co-Organizers



Sponsors & Contributing Organizations (Company members of HKIUS & CCPDC)



Invitation to support the congress

Support has been received from local and international organizations including government departments, academic institutes, industrial sectors.

Sponsorship opportunities are now open for the WCEAM & ICUMAS, either as a congress sponsor or function sponsors which include coffee break, luncheon or gala dinner.

Details can be found at www.wceam2013.com.

8th WCEAM & 3rd ICUMAS 2013: Tentative Program-at-a-glance (Updated on 17 July 2013)

30 October 2013 (Wednesday)

Room Allocation	S221	S222, 223, S224, S225, S226, S227, S228, S229	Foyer
09:00 - 09:45	WCEAM Opening Ceremony Official opening anno: Joe Mathew MC: Ir Dr. Peter Tse Guest-of-Honour: Ir Chi-sing WAI, JP, Development Bureau, HKSARG Guest-of-Honour: Prof. Way KUO, City University of Hong Kong Vote of thanks: Ir Dr. King Wong Lion dance Photo taking		
09:45 - 10:15	Leading Keynote Speech 1-1 Frank Fan CHAN (Hong Kong)		
10:15 - 10:45	Leading Keynote Speech 1-2 The Role of Evidence in Asset Management Andrew JARDINE (Canada)		
10:45 - 11:15	Coffee Break		
11:15 - 11:45	Leading Keynote Speech 1-3 Kwok-leung TSUI (Hong Kong)		
11:45 - 12:15	Leading Keynote Speech 1-4 Dundar F. KOCAOGLU (United States)		
12:15 - 12:45	Leading Keynote Speech 1-5 Is there a Need for Curricula in Engineering Asset Management? Joe AMADI-ECHENDU (South Africa)		
12:45 - 13:15	Leading Keynote Speech 1-6 Investigation on Technology Road Map of Health Intelligent Monitoring-Control for High End Energy and Power Machinery Jin-ji GAO (China)		
13:15 - 14:15	Lunch Buffet		
14:15 - 14:45	Keynote Speech 1-8 Significant Development Potential Exists in Applying RAMS Engineering to Probabilistic Risk Assessment and Management (PRAM) Seppo VIRTANEN (Finland)	Keynote Speech 1-7 Zili WANG (Beijing Hang, China)	
14:45 - 15:15	Keynote Speech 1-9 GIS as an Engineering Information Management System David TOTMAN (United States)	Session Keynote Speech 1-10 Niranjan SWARUP (India) Poster session	
15:15 - 15:35	Paper + poster session	Paper + poster session	
15:35 - 15:55	Paper + poster session	Paper + poster session	
15:55 - 16:15	Coffee Break		
17:15 - 17:45	8 Paper Sessions (4 papers per session)	8 Paper Sessions (4 papers per session)	

Poster Display

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30th October 2013 - 1st November 2013

8th WCEAM & 3rd ICUMAS 2013: Tentative Program-at-a-glance
(Updated on 17 July 2013)

31 October 2013 (Wednesday)

Room Allocation	S221	S222, 223, S224, S225, S226, S227, S228, S229	Foyer
09:00 - 09:30	Leading Keynote Speech 2-1 Ms. Ada Yin-suen FUNG, JP (Hong Kong)		
09:30 - 10:00	Leading Keynote Speech 2-2 Ir Chung-leung WONG (Hong Kong)		
10:00 - 10:30	Leading Keynote Speech 2-3 John WOODHOUSE (United Kingdom)		
10:45 - 11:15	Coffee Break		
11:00 - 13:00	Industrial Forum C.P. NG (CLP Power, Hong Kong); Ebbe CHOW (Towngas, Hong Kong); Stephen YU (BSI, Hong Kong); Aaron TONG (TQM, Hong Kong)		
13:00 - 14:00	Lunch Buffet		
14:00 - 14:30	Session Keynote Speech 2-4 King WONG (Hong Kong)	Session Keynote Speech 2-7 Some Perspectives on Automotive Components and Systems Health Monitoring and Prognosis Mutasim SALMAN (United States)	
14:30 - 15:00	Session Keynote Speech 2-5 David HOOD (Australia)	Session Keynote Speech 2-8 Steve SALADINE (Australia)	
15:00 - 15:30	Session Keynote Speech 2-6 Reliability and Asset Management in Oil Industry Khelad OBAIA (Canada)	Session Keynote Speech 2-9	
15:30 - 16:00	Coffee Break		
17:00 - 17:30	8 Paper Sessions + Poster session (4 papers per session)	8 Paper Sessions + Poster session (4 papers per session)	
19:00 - 22:00	Gala Dinner & Inauguration Ceremony of IIUS ICUMAS In-congregation WCEAM 2014 - Joe AMADI-ECHENDU (South Africa)		

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30th October 2013 - 1st November 2013

8th WCEAM & 3rd ICUMAS 2013: Tentative Program-at-a-glance (Updated on 17 July 2013)

1 November 2013 (Friday)

Foyer

Room Allocation S221 S222, 223, S224, S225, S226, S227, S228, S229

09:00 – 09:30 **Leading Keynote Speech 3-1**
Intelligent Assets and Complex Operations:
Reflections from the Offshore Oil & Gas Production Sector
on the Lessons learnt and the Way Forward
Jayantha Prasanna LIYANAGE (Norway)

09:30 - 10:00 **Leading Keynote Speech 3-2**
Using PHM to Keep the Dreamliner in the Clouds
Michael PECHT (United States)

10:00 - 10:30 **Leading Keynote Speech 3-3**
Recent Advances in Prognostics for Next-Generation Machines and
Asset Engineering Systems
Jay LEE (United States)

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **Leading Keynote Speech 3-4**
Min XIE (Hong Kong, China)

11:30 – 12:00 **Leading Keynote Speech 3-5**
PHM System Requirements, Development, Implementation:
Lessons Learned
Andy Hess (United States)

12:00 – 12:30 **Leading Keynote Speech 3-6**
Asset Management in a Heavy Haul Railway –
Essential for good business
Glen MULLINS (Australia)

12:30 – 13:00 **Leading Keynote Speech 3-7**
Dynamic Reliability Assessment for Complex Systems
Hong-zhong HUANG (China)

13:00 – 14:00 **Lunch Buffet**

14:00 – 15:30 **8 Paper Sessions**
(4 papers per session)

8 Paper Sessions
(4 papers per session)

15:30 – 16:00 **Coffee Break**

16:00 – 17:30 **8 Paper Sessions**
(4 papers per session)

8 Paper Sessions
(4 papers per session)

17:30 – 18:00 **Closing Ceremony**

Official closing anno: Prof. Joe Mathew,; MC: Ir Dr. Peter Tse
Guest-of-Honour: Ir Dr. the Hon. Wai-kiwok LO, Legislative Council, HKSARG
Vote of thanks: Ir Dr. King Wong

Poster Display



WCEAM
World Congress on
Engineering Asset Management

Almost 300 abstracts received from over 35 countries

You are invited to Join



TOPICS AND APPLICATION STREAMS

This event intends to draw worldwide multidisciplinary and transect oral expertise that will stimulate fresh discussion in the rapidly emerging trans disciplinary field of EAM & UMS. Papers from both research and industry professionals on the following topics and industry streams are going to be presented.

(EAM=Engineering Asset Management) Utility Management and Safety (UMS)

- | | |
|---|--|
| <ul style="list-style-type: none"> • Advanced maintenance strategies (RCM, CBM, RBI) • Condition monitoring, diagnostics, and prognostics • Data mining and statistical modeling • Decision support and optimization methods and tools • EAM & UMS in public utilities and buildings • Education & training in EAM & UMS • Emerging technologies and embedded sensors and devices for EAM & UMS • Human dimensions in integrated EAM & UMS • Performance monitoring and management • Planning and scheduling in EAM & UMS • Policy, regulations, practices and standards for EAM & UMS • Procurement and contracting in EAM & UMS | <ul style="list-style-type: none"> • Production and operations management • Prognosis and health management • Project and human resource management • Quality and knowledge management for EAM & UMS • Reliability modeling and prediction • Risk management in EAM & UMS • Safety, health and risk management in EAM & UMS • Strategic asset management for sustainable business • Structural integrity and health management • Supply chain and logistics management • Sustainable and green environmental management • Technologies for asset data management, warehousing and mining |
| <ul style="list-style-type: none"> • Building services and information management • Condition Assessment on Road Surface, Building and trees • E-Maintenance & intelligent maintenance • Energy auditing and management Facilities management • Lifestyle and sustainability considerations of physical assets • Mechanisms of fracture, fatigue and strength of solids • Self-maintenance and self-recovery | <ul style="list-style-type: none"> • Utility Management System • Pipe Condition Surveys (PCS) • Accuracy on Comprehensive Utility survey • One call System (call before you dig) • Ground Penetrating Radar Survey on utilities and voids • GIS for Utilities • BIM for utilities |

Registration Details (Early bird closes on 16th August 2013):

Registration Levels	Early-bird Rate	Normal Rate
Delegates	<input type="checkbox"/> USD 750 / HKD 5,800	<input type="checkbox"/> USD 850 / HKD 6,600
Delegates from supporting organizations	<input type="checkbox"/> USD 630 / HKD 4,900	<input type="checkbox"/> USD 630 / HKD 4,900
Students	<input type="checkbox"/> USD 350 / HKD 2,700	<input type="checkbox"/> USD 400 / HKD 3,100
Day Pass (Lunch included)	<input type="checkbox"/> USD 300 / HKD 2,300	<input type="checkbox"/> USD 300 / HKD 2,300
Gala Dinner only	<input type="checkbox"/> USD 200 / HKD 1,500	<input type="checkbox"/> USD 200 / HKD 1,500
Day Pass (Lunch not included)	<input type="checkbox"/> USD 200 / HKD 1,500	<input type="checkbox"/> USD 200 / HKD 1,500
Grand Total:		

Payment Method:

- I hereby enclosed a local Hong Kong cheque (No. _____ / Bank: _____) made payable to "Construction Professionals' Development Centre Limited"
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Payment Method:

- Official letter of invitation will be issued upon request to facilitate participants' travel visa application. Please contact Congress Secretariat at secretariat@wceam2013.com for arrangement.
- 50% of the registration fee will be refunded upon written confirmation of cancellation received before 31 August 2013. No refund will be made for cancellation after this date.

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- The University of Hong Kong - Department of Mechanical Engineering
- The University of Hong Kong - Department of Industrial and Manufacturing Systems Engineering
- 香港理工大學 - 香港工程師學會 (HKIE)
- 渠務署 (Drainage Services Department)
- 香港貿易發展局 (HKTDCC)
- 機電工程署 (EMSD)
- 渠務署 (Drainage Services Department)
- 香港科技協進會 (HKAASST)
- Institute of Measurement and Control
- CIQB - THE CHARTERED INSTITUTE OF BUILDING
- ASME - HONG KONG SECTION
- POMS - Production and Operations Management Society - HONG KONG CHAPTER
- Institution of MECHANICAL ENGINEERS
- HKQAA - 香港品質保證局
- HKIE - THE HONG KONG INSTITUTION OF ENGINEERS (Manufacturing & Industrial Division)
- HKIE - THE HONG KONG INSTITUTION OF ENGINEERS (Safety Specialist Committee)
- HKIE - THE HONG KONG INSTITUTION OF ENGINEERS (Control, Automation & Instrumentation)
- The Electrical Engineering Alumni Association (EAAA) of The Hong Kong Polytechnic University Limited
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- BSOMES
- ACSD - 亞洲持續發展中心
- chartered ICES
- ISI
- HKIE
- HKAEE - 香港能源工程師學會
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