



EPPM2015

The 6th International Conference on
Engineering, Project, and Production Management



CONFERENCE PROGRAM BOOK

Hosted by:
Griffith School of Engineering, Griffith University
Association of Engineering, Project, and Production Management

2-4 September 2015
Surfers Paradise Marriott Resort and Spa, Gold Coast, Australia

THE 6TH INTERNATIONAL CONFERENCE ON ENGINEERING, PROJECT, AND PRODUCTION MANAGEMENT (EPPM2015)

PROGRAM BOOK

Published by:

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FOREWORD

On behalf of the Organising Committee, we are delighted to welcome you to the 6th International Conference on Engineering, Project, and Production Management (EPPM2015). This conference is proudly hosted by Griffith School of Engineering, Griffith University in conjunction with the Association of Engineering, Project, and Production Management (EPPM Association).

The EPPM2015 conference continues the strong tradition that reflects the founding principle of the EPPM Association, which is to foster the exchange of knowledge and promote research within the multidisciplinary areas of engineering, project, and production management. The EPPM2015 conference also aims to share unique knowledge from the nexus between social sciences and engineering, highlighting the need to embrace interdisciplinarity by crossing the boundaries between disciplines, recognising problems and ways of solving them, in a manner that is often unconventional, different from the monophonic approach. The conference hosts theoretical discussions, data analysis, case studies, and industrial practices in the form of research papers, which provide a great opportunity for researchers, engineers, managers, students, and practitioners to present and discuss current and emerging research issues, problems, questions, findings, and new developments.

The conference would not be possible without the strong support of the Organising Committee, Scientific Chairs, International Scientific Committee, Keynote Speakers, and international authors and delegates. We would also like to thank Bo Xiong from Queensland University of Technology and Warit Wipulanusat from Griffith University for their assistance in compiling this program book.

We hope you enjoy your time at our conference, and that you have the opportunities to exchange ideas and share knowledge, as well as participate in productive discussions with the like-minded researchers and practitioners from diverse fields.



Professor Sherif Mohamed



Dr. Kriengsak Panuwatwanich

EPPM2015 Conference Chairs

ORGANISING COMMITTEE

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ORGANISING COMMITTEE'S DECLARATION

All the papers in these conference proceedings were double-blind reviewed by members of the International Scientific Committee. This process entailed detailed reading of the papers, reporting of comments to authors, modification of papers by authors, and re-evaluation of revised papers to ensure quality of the content.

PEER REVIEW PROCESS

A rigorous two-stage peer review process was applied to this conference to maintain and assure the quality of the conference proceedings. In the first stage, submitted abstracts were evaluated by Scientific Chairs in terms of:

- Relevance to conference theme and objectives;
- Originality of material;
- Academic rigour;
- Contribution to knowledge; and
- Research methodology.

Authors, whose abstracts were tentatively accepted in the first stage, were requested to submit full papers for further review. Each paper was reviewed by no less than two acknowledged experts in the field with unidentified reviewers' comments. Authors were requested to submit their revised papers noting and addressing reviewers' comments. Evidence was required relative to the action taken by authors regarding the comments received. These resubmitted and revised papers were re-reviewed again in terms of:

- Relevance to conference theme and objectives;
- Originality of material;
- Academic rigour;
- Contribution to knowledge;
- Research methodology and robustness of analysis of findings;
- Empirical research findings; and
- Critical current literature review.

In the second review stage, authors were provided with additional comments and requested to submit their revisions. The final accepted decision was rendered when Scientific Chairs confirmed that all reviewers' comments were appropriately responded to, having been double peer-reviewed for publication. At no stage was any member of the Scientific Chairs and International Scientific Committee involved in the review process related to their own authored or co-authored papers.

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KEYNOTE SPEAKERS

Professor Ali Jaafari

Director and Principal, JCS Consultants; Founder of Asia Pacific International College



Professor Jaafari is the founder and Past President (2004-2015) of Asia Pacific International College. APIC is a recognised degree-granting Australian Higher Education Institution with undergraduate and postgraduate programs in project management, business and information systems. From 1982 to 2004 Professor Jaafari held numerous academic positions at the University of Sydney, including Chair Professor of Project Management. Professor Jaafari has been an active contributor to the literature, including journals and international conferences. He has authored over 190 publications, and presented numerous keynote or plenary lectures in the past 20 years. He is on the editorial board and a reviewer for a number of journals, including the International Journal of Project Management, the International Journal of Information Technology Project Management, etc. Professor Jaafari has also presented seminars and executive training programs in project and strategic management to over 6,000 executives and managers in Europe, Middle East and Asia. He has acted as an expert consultant to a number of Australian organisations, the European Commission and numerous government agencies in Asia and the Middle East.

Chris Lawson

Former Head of Integrated Project Delivery Systems, Aurecon



Chris Lawson has over 15 years as a consulting engineer, 23 years in local government and 2 years in applied research. In June 2015, he retired from his role as global Head of Integrated Project Delivery Systems with Aurecon Group Pty Ltd, one of the largest Australian based consulting firms where he previously managed the South Queensland business for 6 years. During his time at Aurecon he has been involved in projects such as the \$1.8B Trackstar Alliance which completed 4 mainline passenger rail upgrades in the Brisbane region from 2006 to 2014, Moreton Bay Rail, Eastern Busway, the replacement of the Brisbane Ferry terminals, CLEM7, Airport Link and Legacy Way tunnels, and Trackpower Alliance which completed mainline electrification upgrades on the Blackwater and Goonyella coal rail lines for Aurizon. He has also been involved in the establishment of systems integration and document control for the design phases of Northconnex tunnels in Sydney, Melbourne Metro and Torrens to Torrens Alliance in Adelaide. Chris was also a principal author of the Queensland Urban Drainage Manual which since 1992 has been the principal design reference for urban drainage design in Queensland and in many other jurisdictions. He currently serves on the Transport Advisory Board for Mackay Regional Council and provides advice to various contractors on their transition to BIM.

HOSTS



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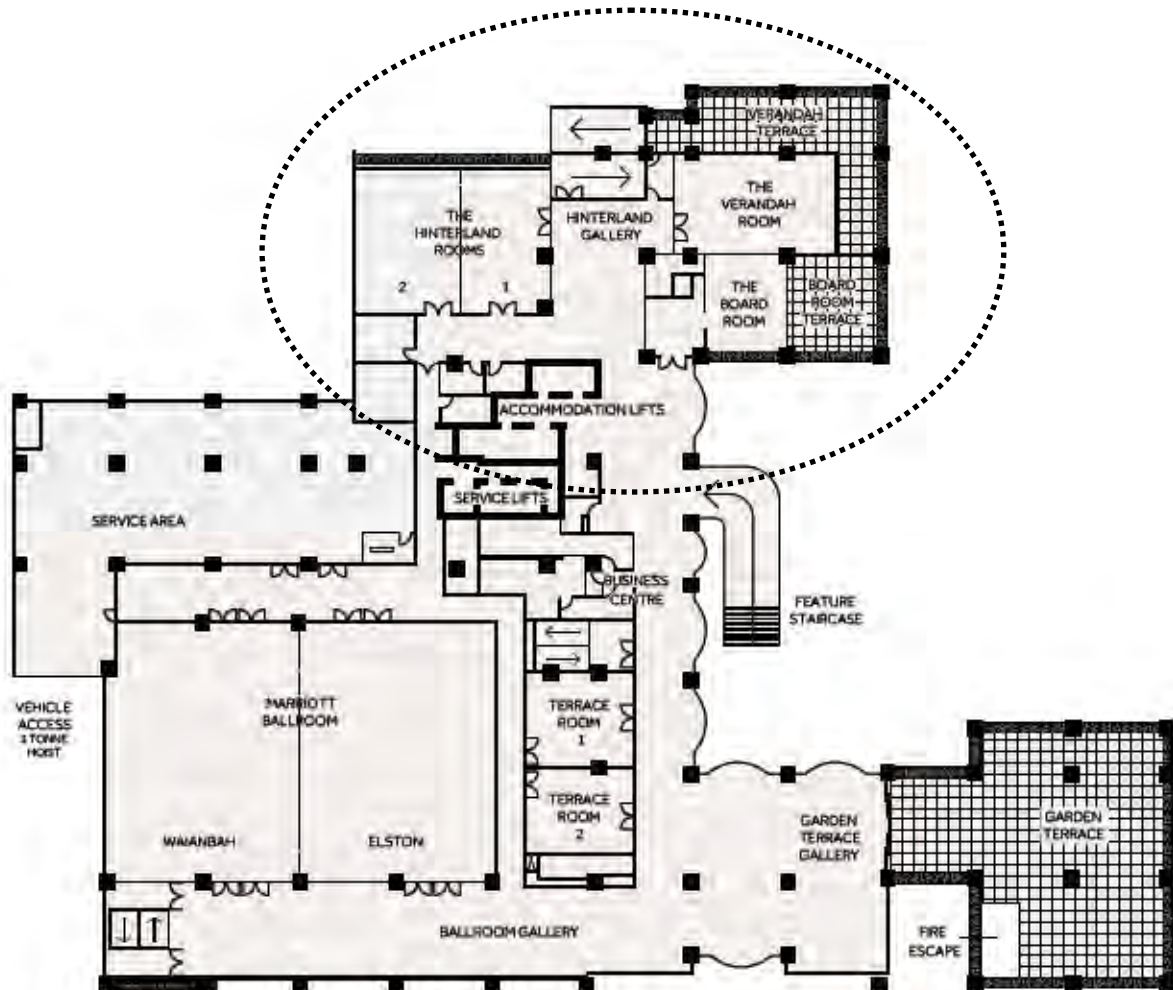


**BOARD OF
PROFESSIONAL
ENGINEERS
OF QUEENSLAND**

SURFERS PARADISE MARRIOTT RESORT & SPA

Floor Plan

EPPM2015 Conference Area



PROGRAM SCHEDULE

Wednesday 2 September 2015

17:00 – 20:00 Registration, Hinterland Gallery

18:00 – 20:00 Welcome Reception Cocktail, Verandah Room
Dress code: Business Casual

Thursday 3 September 2015

08:30 – 09:00 Welcome coffee and tea

09:00 – 11:00 Registration (Hinterland Gallery)

09:00 – 10:00	09:00 Opening Ceremony 09:15 Keynote speaker: Prof. Ali Jaafari Topic: Organisational Competence and Construction Firms <i>Venue: Hinterland Room</i>	
10:00 – 10:30	Coffee break	
10:30 – 12:00	Parallel Session 1-1-A <i>Venue: Hinterland Room</i>	Parallel Session 1-1-B <i>Venue: Verandah Room</i>
12:00 – 13:00	Buffet lunch <i>Venue: Verandah Terrace</i>	
13:00 – 15:00	Parallel Session 1-2-A <i>Venue: Hinterland Room</i>	Parallel Session 1-2-B <i>Venue: Verandah Room</i>
15:00 – 15:30	Coffee break	
15:30 – 17:30	Parallel Session 1-3-A <i>Venue: Hinterland Room</i>	Parallel Session 1-3-B <i>Venue: Verandah Room</i>
19:00 – 22:00	19:00 Conference Gala Dinner starts 19:30 Aboriginal Performance by Jaran Dance Company 20:00 Best Paper Award Presentation 22:00 Conference Gala Dinner concludes Dress code: Business casual / Business formal <i>Venue: Verandah Room</i>	

Friday 4 September 2015

08:30 – 09:00 Welcome coffee and tea

09: 00 – 11:00 Registration, Hinterland Gallery

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10:30 – 12:00	Parallel Session 2-1-A <i>Venue: Hinterland Room</i>	Parallel Session 2-1-B <i>Venue: Verandah Room</i>
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15:00 – 15:30	Coffee break	
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