Connect your entire project to the BIM process.

If BIM is going to help you deliver a better project, it needs to go beyond just the design team.

The promises of BIM are clear: streamlined processes, reduced risk of errors, and more complete information capture for handover and operation. But the design team is often disconnected from the rest of the project when it comes to BIM, which means these benefits are not fully realised. The solution is Connected BIM from Aconex. By allowing the wider project to access and contribute to BIM models, you get better decisions, higher quality, and smoother delivery of your asset.

aconex.com/ConnectedBIM

“Aconex adds significant value to a BIM project. With models linked to other project information, you can link the virtual facility and the actual facility”

Elizabeth Peters, BIM Lead, AECOM, UAE

Better event day experiences

AECOM has joined Laing O‘Rourke and the Public Transport Authority to form the PRISM Alliance. Together, we're eliminating waste through innovative project delivery, leveraging digital engineering and integrated governance structures to deliver the new Perth Stadium Station rail project.

Our innovative station design reduces post-event crowd congestion, enabling up to 28,000 spectators to access the Stadium Station within an hour of the event finishing.

AECOM - proud supporter of Construct15.
Global Knowledge – Global Solutions

This Conference is the world’s leading Conference on advances in construction practices, innovative technologies and first class research. The theme for Construct15 is ‘Global Knowledge – Global Solutions’ which reflects the importance of shared knowledge for industry improvement.

Welcome

It is clear that the global construction industry is fast-changing, driven by changes to the world economic environment and demographic growth. In order to deliver value and maintain competitiveness, the construction industry will need to develop its capabilities for managing innovation and technical changes to construction practices.

Over four days Construct15 will bring together the best of world lean construction experts and practitioners. Through presentations of best practices, key leader panel discussions, significant case studies, workshops, professional and academic papers, and product demonstrations, you will have an exceptional opportunity to share how construction professionals are addressing the major challenges confronting the construction industry.

In addition you will have invaluable networking opportunities with key leaders from the global construction industry, be able to strengthen existing relationships with colleagues from our industry and meet new acquaintances. This will be complemented by a variety of social events including a Welcome Reception and Conference Dinner.

We are proud to host this International Conference here in Perth, Western Australia. This honour highlights the significance of Western Australia – the construction and mining hub of Australia, in the global construction market, and is acknowledgement of The Lean Construction Institute – Australasia and the leadership role it provides in the Australasian construction sectors.

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</tbody>
</table>
GALA DINNER AT PERTH ARENA  Wednesday 29 July

VENUE
Indigo Room, Perth Arena, 700 Wellington Street, Perth

DINNER AGENDA
1930 Welcome  
(Mr Barry Howard LCIA Chairman)
1935 Entrée Served
1955 Introduction
Mr James Barrett  
(Vice President and Chief Innovation Officer Turner Construction)
Mr Levi Naas  
(VDC Manager BPI and LCIA Director)
Mr John Stokoe  
(Head of Strategic Development Dassault Systemes EuroNorth)
2030 Main Course Served
2050 Introduction (Mr Abra DeKlerk)
Recorded presentation from Ms Amy Marks  
(President XSite Modular)
2125 Third Course Served
2145 Close  
(Mr Barry Howard LCIA Chairman)

PERTH ARENA
Perth Arena is Western Australia’s landmark home of live entertainment, music and sports. Widely reported as Australia’s finest venue, the 15,000 capacity Perth Arena features breathtaking design and world-leading technology.

In Perth Arena’s short two and a half year history, it has successfully brought the world’s best sporting and entertainment events to Western Australia. The state of the art entertainment venue has led the way for artist and fan experience and triumphed on the world stage. Many artists rave about the venue’s acoustics, but just as important the fans continue to return multiple times a year for different shows.

AWARDS
Australian Institute of Architecture Sir Zelman Cowen Award - Australia’s Best Building 2013
Australian Institute of Architecture Emil Sodersten Award (National) for Interior Architecture 2013
Master Builders Association National Public Buildings Award
The George Temple Poole Award for WA’s Best Building 2013
Jeffrey Howlett Award for Public Architecture 2013
COLORBOND Award for Steel Architecture 2013
Master Builder Excellence in Construction Best Public Use Building 2013
Design Institute of Australia (WA) Best in State Winner
Design Institute of Australia (WA) Public/Institutional Award of Merit
Design Institute of Australia (WA) Hospitality Award of Merit
**DAY 1  Tuesday 28 July**

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<tr>
<th>TIME &amp; LOCATION</th>
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<tr>
<td><strong>8:00 - 9:00</strong></td>
<td>Registration in the Northern Foyer</td>
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</table>
| **9:10 - 10:00** | **Meeting Rooms 2-3**  
**Welcome**  
09.10 Professor Xiangyu Wang (Welcome)  
09.20 Traditional Welcome to Country  
09.30 Deputy Vice Chancellor Graeme Wright (Curtin University Address)  
09.40 Mr Ollie Seppanen (IGLC Scientific Program Chair)  
09.45 Mr Levi Naas (BIM Day Out)  
09.50 Mr Barry Howard (LCIA Chairman Welcome + Program Agenda + Safety Overview) |
| **10:00 - 10:45** | **KEYNOTE #1**  
*Lean Construction in Brownfield Capital Projects*  
**Keynote Speaker:** Mr Philip Allison (Senior Vice President Projects, Woodside Energy) |
| **10:45 - 11:15** | Morning Tea in Riverview Room 4 & 5. Opening of the Exhibition. |
| **11:15 - 12:00** | **Meeting Room 1 BDO**  
**Demystifying Modular Construction**  
Speaker: Mr John Zendler (CIMC) |
| **Meeting Room 2 Open Lean** | **Vertical Integration of Lean and Six Sigma into Major Capital Projects: Regaining Control**  
Authors: M. T. Milo, L. Murray and S. E. MacMahon  
**Speaker:** Mr Larry Murray (Variance Reduction International) |
| **Meeting Room 3 ALM / Prefab** | **What’s wrong with our current construction methods?**  
**Speaker:** Mr Adrian Fratelle (Fratelle Group) |
| **Meeting Room 12 BDO** | **Changing Mindsets and Behaviours to enable Business Success**  
**Speaker:** Ms Laura Shepherd (ODG Solutions) |
| **11:15 - 12:45** | **Meeting Room 11 BIM Lab1**  
**Delivering Clash for Coordination & Creating Custom Coordination Reports “Visually”**  
**Speaker:** Mr Shane Brown (PDC Group) |
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<th>TIME &amp; LOCATION</th>
<th>EVENT</th>
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| **12:00 - 12:45**  | Facility Management  
Meeting Room 1 BDO  
Speaker: Mr Tim Fox (Laing O’Rourke) |
| **Meeting Room 2 Open Lean** | Unshackling Electrical Systems from Paper Enables Lean  
Speaker: Mr Dermot Kennedy (I&I Systems) |
| **Meeting Room 3 ALM / Prefab** | Australian Research Council Training Centre for Advanced Manufacturing in Prefabricated Housing  
Speaker: Professor Peter Newman (Curtin University) |
| **Meeting Room 12 BDO** | Rethink Your World - BIM & Construction In The 21st Century  
Speaker: Mr David Anderson |
| **12:45 - 1:45**  | Lunch in Riverview Room 4&5 |
| **13:45 - 14:30**  | **KEYNOTE #2**  
Keynote Speaker: Mr John Stokoe CB CBE  
(Head of Strategic Development, Dassault Systemes EuroNorth) |
| **Meeting Rooms 2-3** | **KEYNOTE #3**  
Keynote Speaker: Mr James Barrett  
(Vice President & Chief Innovation Officer, Turner Construction) |
| **15:15 - 15:45**  | Afternoon Tea in Riverview Room 4&5 |
| **15:45 - 16:30**  | **TBC**  
Speaker: Mr Steve McDonald (NS Projects) |
| **Meeting Room 2 Open Lean** | International Convergence - Lean, IPD and BIM  
Speaker: Mr Richard Morwood (AECOM) |
| **Meeting Room 3 ALM / Prefab** | BIM: The promise, the reality and some recommendations for practitioners  
Speaker: Mr Wayne Eastley (bimSCOPE) |
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<th>Time</th>
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<th>Speaker/Notes</th>
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<tbody>
<tr>
<td>15:45 - 17:15</td>
<td>Meeting Room 12 BDO</td>
<td>Using Augmented Reality for Communicating Constructions</td>
<td>Ms Rebecca Lee (Virtualiis)</td>
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<tr>
<td>15:45 - 17:15</td>
<td>Meeting Room 11 BIM Lab1</td>
<td>Revit to IFC, everything you need to know!</td>
<td>Mr Chris Theis &amp; Mr Daniel Morrison (BIMWest)</td>
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<tr>
<td>16:30 - 17:15</td>
<td>Meeting Room 1 BDO</td>
<td>Facilitating open BIM workflows to cut project waste</td>
<td>Mr Mark McIntyre (Aconex)</td>
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<tr>
<td>16:30 - 17:15</td>
<td>Meeting Room 2 Open Lean</td>
<td>Lessons from Lean</td>
<td>Mr Marton Marosszeky (Marosszeky Associates)</td>
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<tr>
<td>16:30 - 17:15</td>
<td>Meeting Room 3 ALM/PreFab</td>
<td>Lean Initiatives Maximizing Road Maintenance and Construction?</td>
<td>Mr Carl Hayward (DownerMouchel)</td>
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<tr>
<td>17.30 - 18:30</td>
<td>Meeting Room 12 BDO</td>
<td>The BIM Bluff: Who’s Actually Managing BIM?</td>
<td>Mr Isaac Heard (PDC Group)</td>
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<tr>
<td>17.30 - 18:30</td>
<td>Riverview Rooms 4&amp;5</td>
<td>Welcome Reception - Riverview Rooms 4&amp;5</td>
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## DAY 2  Wednesday 29 July

### TIME & LOCATION

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<td>8:30 - 9:00</td>
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<td>Registration in the Northern Foyer</td>
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<td>Exhibition Open in Riverview 4&amp;5</td>
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<td>9:00 - 9:10</td>
<td>Meeting Rooms 2-3</td>
<td>Welcome</td>
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<td>Welcome / Reflection from Ms Monika Gluszak (LCIA Director)</td>
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<tr>
<td>9:15 - 10:45</td>
<td>Meeting Room 8</td>
<td><strong>IPC KEYNOTE PRESENTATION 1 &amp; 2</strong></td>
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<tr>
<td></td>
<td>IPC Research</td>
<td><strong>Session Chair: Prof. Xiangyu Wang (Curtin University)</strong></td>
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<td><strong>Speaker: Prof. Chimay Anumba (The Pennsylvania State University)</strong></td>
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<td><strong>Speaker: Prof. Liyin Shen (Chongqing University)</strong></td>
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<tr>
<td>9:15 - 10:00</td>
<td>Meeting Rooms 2-3</td>
<td><strong>KEYNOTE #4</strong></td>
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<td></td>
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<td>Learning from Australia’s boom to drive international competitiveness</td>
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<td>Keynote Speaker: Mr Kevin Gallagher (CEO, Clough)</td>
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<tr>
<td>9:30 - 10:45</td>
<td>Meeting Room 7</td>
<td><strong>SESSION 1: PRODUCTION PLANNING AND CONTROL. WELCOME TO CONFERENCE.</strong></td>
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<td>IGLC Research</td>
<td><strong>Session Chair: Dr. Glenn Ballard</strong></td>
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<td>Comparison between the location based management system and takt time planning</td>
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<td>Comparing Site Organization and Logistics in the Construction Industry and the Oil Industry:</td>
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<td>A Case Study</td>
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<td>Speakers: Adam Frandson, Olli Seppanen, Iris Tommelein</td>
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<td>Instantask: A Visual Application For Enabling Agile Planning Response</td>
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<td>Speakers: Emile Daou, Paul Gharzouzi, Edwin Sreih, Farook Hamzeh</td>
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<td>A BIM-based Framework for Material Logistics Planning</td>
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<td>Speakers: Jack Cheng, Srinath Kumar</td>
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<td>Stabilizing Craft Labor Workflow with Instantaneous Progress Reporting</td>
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<td>Speakers: Fernanda Cruz-Rios, David Grau, Rizwan Assinair, Ram Ganapathy, José Diosdado</td>
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<td>10:00 - 10:45</td>
<td>Meeting Rooms 1-3</td>
<td><strong>KEYNOTE #5</strong></td>
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<td>Lean and mean production, but does your bidding process shape-up</td>
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<td>face the winner’s curse, and illusions of certainty?</td>
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<td></td>
<td>Keynote Speaker: Prof. Roger Flanagan (University of Reading)</td>
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<td>10:45 - 11:15</td>
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<td>Morning Tea in Riverview 4&amp;5</td>
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<td>11:15 - 12:00</td>
<td>Meeting Room 1</td>
<td><strong>Field to BIM &amp; Back</strong></td>
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<td>BDO</td>
<td>Speakers: Mr Chris Johnson (Building Point) co-presenting with Ken Shawler &amp; David Burczyk (Trimble)</td>
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| 11:15 - 12:00   | Harnessing the 2,500 - Developing an Innovation Culture in a Services Contractor  
Speaker: Mr Chris Tabrett (Monadelphous) |
| 11:15 - 12:00   | Constructa, Value for Mobile Construction Management and Independent Verification Activities  
Speaker: Dr Andy Wohlsperger (AECOM) |
| 11:15 - 12:00   | Making the Most of BIM (and saving $ while you’re at it)  
Speaker: Mr Mark Horrocks (Cadimage GROUP) |
| 11:15 - 12:00   | Future of Making Things  
Speaker: Mr Swain Johnson (Autodesk) |
| 11:15 - 12:45   | SESSION 2: PRODUCTION PLANNING AND CONTROL  
*Session Chair: Dr. Olli Seppänen*  
Formwork Standardization and Production Flow: Lessons from an Affordable Housing Project in Ecuador  
Speakers: Eder Martinez, Ariana Alvear, Iris Tommelein, Glenn Ballard  
Integrating Task Fragmentation and Earned Value Method into the Last Planner System using Spreadsheets  
Speakers: José Luis Ponz-Tienda, Eugenio Pellicer, Juan Sebastián Rojas-Quintero, Luis Fernando Alarcón  
From SS to LPS, a bottom up approach in a construction major company  
Speakers: Fabrice Berroir, Lahcène Harbouche, Conrad Boton  
What Is a Good Plan?  
Speakers: Trond Bølviken, Sigmund Aslesen, Lauri Koskela  
Pull vs. push in construction work informed by Last Planner  
Speakers: Bo Terje Kalsaa, John Skaar, Rein Terje Thorstensen  
Matrix of Interaction of Groups a Prototype Tool for Production Control Coordination of Team, Meetings and Managerial Processes  
Speakers: Omar Zegarra, Luis Fernando Alarcon |
| 11:15 - 12:45   | SESSION 1: BIM (I)  
*Session Chair: Dr. Sungkon Moon (Curtin University)*  
Development and Frontier of Building Information Model Visualization Analysis Based on Science Knowledge Map  
Speakers: Yaling Deng, Bo Xu, Xiao Li (Chongqing University)  
A BIM-4D-Based Scheme Optimization for Sliding Construction of Large-Span Steel Structure  
Speakers: Bin Zhao, Yawei Li, Chi-yang Lin, Xiangyu Chen (Chongqing University)  
Gearing Up Academics for Collaborative Building Information Modelling (BIM) Education  
Speakers: Carol K.H. Hon, Erezi Utiome, Robin Drogemuller, Robert Bob Owen, Madhav Nepal, Jason Gray, and Vaughan Coffey (Queensland University of Technology)  
On Teaching BIM Technology in Civil Engineering |
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| **12:00 - 12:45**  
Meeting Room 1 BDO  | **BIM for Operations (BIM4FM)**  
Speaker: Mr Oliver Ridgwell (Manhattan Atrium, A Trimble Company) |
| **Meeting Room 2 Open Lean** | **Lean Construction meets Lean Manufacturing**  
Speaker: Mr John Grout (SECORA) |
| **Meeting Room 3 ALM / PreFab**  | **Integrating progress and cost data with BIM and GIS systems to visualise progress and office waste**  
Speaker: Mr Hugh Hofmeister (Ennova) & Mr Ken Panitz (EIC Activities, a CIMIC Group Company) |
| **Meeting Room 12** | **Outlining the challenges in achieving excellence in productivity and the benefits DE and the workpack brings**  
Speaker: Mr Gary McLaughlin, PRISM Alliance  
(An Alliance composed of PTA, Laing O'Rourke and AECOM) |
| **12:45 - 13:45**  
Lunch in Riverview 4&5 | |
| **12:45 - 13:45**  
Meeting Room 8 IPC Research | **VIE BOARD MEETING** |
| **13:45 - 14:45**  
Meeting Rooms 2-3 | **KEY INDUSTRY LEADER PANEL**  
**Construction Productivity Outlook 2015-2025: Are we ready to meet the challenges?**  
Panel Member: Mr John Flecker (CEO, Brookfield Multiplex)  
Panel Member: Ms Mary Hackett (ANZ Regional Director, GE Oil and Gas)  
Panel Member: Mr Victor Hoog Antink (Chairman, South Bank Corporation) |
| **Meeting Room 8 IPC Research**  | **IPC KEYNOTE PRESENTATION 3**  
*Session Chair: Prof. Pekka Leviakangas (Curtin University)*  
Speaker: Prof. Moses Tadé (Curtin University) |
| **13:45 - 14:45**  
Meeting Room 7 IGLC Research | **SESSION 3: PRODUCTION PLANNING AND CONTROL**  
*Session Chair: Dr. Bo Terje Kalsaaas*  
**Integration of Last Planner System and Location-Based Management System**  
Speakers: Olli Seppänen, Ralf-Uwe Modrich, Glenn Ballard  
**The standardized work tool applied to the waterproofing process with acrylic membrane**  
Speakers: Nádia Braga De Lima Saraiva Fernandes, Angela De Bortoli Saggin, Caroline Porto Valente, Felipe Loiola Brito, Carlos Alexandre Martiniano Do Amaral Mourão  
**Exploring the implementation of the Last Planner® System through IGLC community:** |
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<td>14:45 - 15:15</td>
<td>Afternoon Tea in Riverview 4&amp;5</td>
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<tr>
<td>15:15 - 16:15</td>
<td>Asset Lifecycle Information Management (ALIM) is the new BIM</td>
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<tr>
<td>Meeting Room 1 BIM Lab 1</td>
<td>Speaker: Mr Paul King (Bentley Systems)</td>
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<tr>
<td>Meeting Room 11 BIM Lab</td>
<td>PlusSpec: An Australian innovation for BIM/VDC and Leaner Construction</td>
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<td>Speaker: Mr Andrew Dwight (Rubysketch)</td>
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<tr>
<td>Meeting Room 12 BDO</td>
<td>BIM validation and service integration in the cost estimating and cost management environment</td>
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<td>Speaker: Mr Wilhelm (Wil) Nel (Turner &amp; Townsend)</td>
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<tr>
<td>Meeting Room 12 BDO</td>
<td>Effective Clash Coordination for Consultants &amp; Construction</td>
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<td>Speaker: Mr Deepak Maini (Cadgroup Australia)</td>
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<tr>
<td>SESSION 4: PRODUCTION PLANNING AND CONTROL</td>
<td>Session Chair: Dr. Christine Pasquire</td>
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<td>Meeting Room 7 IGLC Research</td>
<td>WIP design in a Construction Project Using Takt Time Planning</td>
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<tr>
<td>Speakers: Mazen Faloughi, Meeli Linnik, Dan Murphy, Frandson Adam</td>
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<td>Improving Integrated Planning for Offshore O&amp;M Projects with Last Planner® Principles</td>
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<tr>
<td>Speakers: Adam Gene Frandson, Iris Tommelein</td>
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<td>An Inclusive Probabilistic Buffer Allocation Method</td>
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<td>Speakers: Mohammad Poshdar, Vicente A. González, Sheila Belayutham</td>
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<tr>
<td>Suggestions to Improve Lean Construction Planning</td>
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<tr>
<td>Speakers: Bhargav Dave, Juho-Pekka Hämäläinen, Sergio Kemmer, Lauri Koskela, Anssi Koskenvesa</td>
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<td>Removing hidden waiting time in critical path schedules: a location-based approach to avoiding waste</td>
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<td>Speakers: Russell Kenley, Toby Harfield</td>
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<tr>
<td>SESSION II: BIM (II)</td>
<td>Session Chair: Prof. Shang-Hsien Hsieh (National Taiwan University)</td>
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<tr>
<td>Meeting Room 8 IPC Research</td>
<td>Research on Profit Distribution of IPD Project’s Participants Based on Cooperative Game Theory</td>
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<tr>
<td>Speakers: Yue Teng, Xiao Li, Huiping Li, Shirong Li, Bo Xu, Jun Wang (Chongqing University)</td>
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<tr>
<td>The Economic Viability of Prefabrication and Modular Construction for Residential Buildings in Malaysia</td>
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<td>Speakers: Rohana Mahbub (Universiti Teknologi MARA)</td>
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<tr>
<td>The Research of Location-Based Management System Implementation in Informationalized Construction</td>
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<tr>
<td>Speakers: Zhen Jia, Wenchao Li, Wei Chang (Curtin University)</td>
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<td>Factors of Influence for the Added Cost of Off-Site Residential Construction</td>
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| 15:15 - 17:15   | WORKSHOP #1  
Meeting Room 2 Open Lean  
**Exploring Risk Analysis in the Vertical Integration of Lean and Six Sigma (VILSS).**  
Facilitators: Mr Larry Murray and Dr Susanne MacMahon |
| 15:15 - 17:15   | WORKSHOP #2  
Meeting Room 3 ALM / PreFab  
**Improving Quality Outcomes with Lean Construction**  
Facilitators: Dr Paul Fuller (Downer Group) and Mr Carl Hayward (DownerMouchel) |
| 16:15 - 17:15   | PANEL DISCUSSION  
Meeting Room 1 BDO  
**The changing World of Architecture**  
Moderator: Mr Steve McDonald (NSSProjects) |
| 16:30 - 17:30   | SUSTAINABILITY, GREEN AND LEAN AND INDUSTRIALIZATION AND PREFABRICATION  
Meeting Room 7 IGLC Research  
**Session Chair: Dr. Vicente Gonzalez**  
**Design Complexity for Energy Efficient Buildings: towards understanding decision networks in design**  
Speakers: Ergo Pikas, Lauri Koskela, Martin Thalfeldt, Bhargav Dave, Jarek Kurnitski  
**Comparing investments in sustainability with cost reduction from waste due to lean construction**  
Speakers: Angela De Bortoli Saggin, Caroline Porto Valente, Carlos Alexandre Martiniano Do Amaral Mourão, Antônio Eduardo Bezerra Cabral  
**Prefabrication and Modularization in Germany**  
Speaker: Michael Hermes  
**Analysis of HVAC Subcontractor Mechanisms for JIT Materials Supply to a Construction Site**  
Speakers: Daniela Dietz Viana, Patricia André Tillmann; Iris Denise Tommelein, Carlos Torres Formoso |
| 16:15 - 17:30   | Builders BIM World  
Meeting Room 12 BDO  
**Speaker: Mr Levi Naas (BPI)**  
**Accessibility Plus - Using lean principles to improve genuine Safety participation in the construction industry**  
Speaker: Mr Aden Parker (Pindan) |
| 16:45 - 18:15   | SPECIAL SESSION: COMPLEX ENGINEERING MANAGEMENT FOR MEGA PROJECTS IN CHINA: CASE STUDIES AND LESSONS LEARNED  
Meeting Room 8 IPC Research  
**Session Chair: Prof. Hongwei Wang (Huazhong University of Science and Technology) and Mr. Brendan Peterson (John Holland Ltd.)** |
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<tr>
<td>17:15 - 19:00</td>
<td>Close Day 2 - Wrap Up Industry</td>
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<tr>
<td>19:00 - 22:00</td>
<td>Conference Dinner at the Perth Arena</td>
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**Application of Building Information Modeling (BIM) in China’s Megaprojects: Bibliographic Analysis**  
Speakers: Qinghua He, Ge Wang, Qian Shi, Yaxian Zhou (Tongji University)  

**Smart Construction: A New Trend in Mega Construction Project**  
Speakers: Hongtao Zhou, Yanqiu Zhang, Wei Zeng, Hongwei Wang, Minghui Yu, Yong Xie (Huazhong University of Science and Technology)  

**A New View of the Sustainability of Mega Projects**  
Speakers: Xiao Ding, Zhao Han Sheng, Kai Wang (Nanjing University)  

**Leadership in Mega Infrastructure Engineering Project: From the Perspectives of Complexity and Temporariness**  
Speakers: Yikun Zhou, Qian Shi (Tongji University)  

**A Performance Shaping Factor Taxonomy for Shield Tunnel Construction**  
Speakers: Jue Li, Minghui Yu, and Hongwei Wang (Huazhong University of Science and Technology)  

**A Conceptual Model for Project Contract Governance From Perspective of Negotiation**  
Speakers: Hongsheng Kan, Yaxian Zhou, Yunbo Lu, Yun Le (Tongji University)
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<td>8:30 - 9:00</td>
<td>Registration</td>
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| 9:00 - 10:45    | **IPD AND CONTRACT AND COST MANAGEMENT**  
| Meeting Room 1  | *Session Chair: Dr. Paz Arroyo*  
| IGLC Research   | How to Make Shared Risk & Reward Sustainable?  
|                 | Speakers: Glenn Ballard, Blake Dilsworth, Doanh Do, Wayne Low, James Mobley, Philip Phillips, Dean Reed, Zach Sargent, Patricia Tillmann, Nathan Wood  
|                 | Comparing Three Methods in the Tendering Procedure to Select the Project Team  
|                 | Speakers: Annett Schöttle, Paz Arroyo, Bade Michael  
|                 | Alignment and Misalignment of Incentives within Target Value Design and Integrated Project Delivery  
|                 | Speakers: Doanh Do, Glenn Ballard, Iris Tommelein  
|                 | Project Manager or Project Leader: What it Takes to Create a High Performing Team  
|                 | Speakers: Santor Nishizaki, William R. Seed  
|                 | A Deeper Look into the Implementation of Integrated Project Delivery (IPD) projects in Emerging Markets  
|                 | Speakers: Camilo Garcia, Hernandez Vargas, Sebastian Forero, Sebastian Cárdenas  
|                 | A Critical Review of the Safeguarding Problem in Construction Procurement: Unpicking the Coherent Current Model  
|                 | Speakers: Christine Pasquire, Saad Sarhan, Andrew King  
|                 | Implementation Strategies in Large Infrastructure Projects  
|                 | Speakers: Hanne Opsahl, Olav Torp, Bjørn Andersen, Nils Olsson, Ola Lædre |
| 10:45 - 11:15   | Morning Tea in the Foyer |
| 11:15 - 12:45   | **BIM AND LEAN**  
| Meeting Room 1  | *Session Chair: Dr. Rafael Sacks*  
| IGLC Research   | BIM and Lean in the Design-Production Interface of ETO Components in Complex Projects  
|                 | Speakers: Patricia Andre Tillmann, Daniela Dietz viana, Zach Sargent, Iris Tommelein, Carlos Formoso  
|                 | Intelligent Products: Shifting the Production Control Logic in Construction (with Lean And BIM)  
|                 | Speakers: Bhargav Dave, Sylvain Kubler, Ergo Pikas, Jan Holmström, Kary Främling, Vishal Singh, Lauri Koskela  
|                 | Constructible BIM Elements - A Root Cause Analysis of Work Plan Failures  
|                 | Speakers: Laurie Spitler, Thomas Feliz, Nathan Wood, Rafael Sacks  
<p>|                 | Site Logistics Planning and Control Using 4D Modeling: A Study in a Lean Car Factory Building Site |</p>
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<td><strong>12:45 - 13:45</strong></td>
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**SESSION III: AUTOMATION IN CONSTRUCTION**  
*Session Chair: Prof. Mani Golparvar-Fard (University of Illinois)*

- **Potential Applications of Unmanned Aerial Systems for Construction Management Tasks**  
  Speakers: Javier Irizarry, Dayana Bastos Costa, SungJin Kim (Georgia Institute of Technology)

- **Multi-Measuring Point Least Squares SVM for Foundation Pit Monitoring Forecasting**  
  Speakers: Xiao Li, Zhumin Hu, Yue Teng, Shirong Li, Bo Xu, Jun Wang (Chongqing University)

- **Resource-Constrained Project Scheduling with Uncertain Activity Duration**  
  Speakers: Wen Zhou, Changzhi Wu, Xiangyu Wang, Chuanxin Zhao, Kok Lay Teo, Martijn Truijens (Curtin University)

- **The Role of Integrated Plan and As-Built Models in Achieving Smooth Flow of Production in Construction**  
  Speakers: Kevin K. Han, Mani Golparvar-Fard (University of Illinois, Urbana-Champaign)

- **Optimal Multi-Sink Deployment and Routing for Wireless Sensor Network**  
  Speakers: Chuanxin Zhao, Changzhi Wu, Xiangyu Wang, Kok Lay Teo (Curtin University)

- **The Value of BIPV Projects: A Deliberative Lifecycle Cost Benefit Assessment**  
  Speakers: Rebecca J. Yang, Andrew Carre, Usha Iyer-Raniga, Patrick X. W. Zou, Ning Xu, Ximeng Ma (RMIT University)

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<td><strong>13:45 - 14:45</strong></td>
<td>Lunch in the Foyer</td>
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**TEACHING LEAN CONSTRUCTION**  
*Session Chair: Ms Christine Pasquire*

- **Lean Simulation in Road Construction: Teaching of basic Lean principals**  
  Speaker: Jakob von Heyl

- **Bringing Lean Construction to Life**  
  Speaker: Alan Mossman

- **Teaching Lean Construction for University Student(s)**  
  Speakers: Wenda Nofera, Tariq Abdelhamid, Ali Lahouti

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<td><strong>14:45 - 15:15</strong></td>
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| **15:15 - 16:30**<br>Meeting Room 1<br>IGLC Research | **WASTE IN CONSTRUCTION**<br><br>*Session Chair: Dr. Carlos Formoso*<br><br>A call for new research in the lean construction community: alternative work schedules<br>Speakers: Brent Nikolin, Jason Herrera, Tom McCready, David Grau, Kristen Parrish  
A Case Study on Causes and Consequences of Transportation Waste<br>Speakers: Cristina Perez, Lucila Sommer, Dayana Costa, Carlos Formoso  
A conceptual framework for the prescriptive causal analysis of construction waste<br>Speakers: C. Formoso, T. Bølviken, J. Rooke, L. Koskela  
Waste in design and engineering<br>Speakers: Knut Erik Bonnier, Bo Terje Kalsaa, Arne Olai Ose |
| **15:15 - 16:45**<br>Meeting Room 2<br>IPC Research | **SESSION IV: SUSTAINABILITY AND SUPPLY CHAIN**<br><br>*Session Chair: Dr. Heap-Yih John Chong (Curtin University)*<br><br>A Multilevel Analysis of Collaboration in Offsite Manufacturing Supply Chains using Actor Network Theory<br>Speakers: Kerry A. London, Zelinna Pablo, Malik Khalfan (RMIT University)  
Evaluation of Green Building on Operation Stage<br>Speakers: BinZhao, Xiangyu Chen, Yawei Li, Zhiyang Lin (Chongqing University)  
Applying Pareto Principle to Process Control in Construction<br>Speakers: Sungkon Moon, Robert Lopez, John Forlani, Shouzhi Xu, Xiangyu Wang (Curtin University)  
Minimum Emissions Earthmoving and Optimum Fleet Size<br>Speakers: Alireza Kaboli, Payam Rahnamayiezekavat, Mohammad Kaboli (Semnan University)  
Improving Construction Site Logistics: A Case Study of Integrating GPS and RFID in Material Tracking Tasks<br>Speakers: Hung-Lin Chi, Jun Wang, Jian Chai, Shouzhi Xu, Zhao Chuanxin, Changzhi Wu, Xiangyu Wang (Curtin University)  
Reducing Construction and Demolition Waste in Hong Kong<br>Speakers: Zezhou Wua, Ann T. W. Yub, Chao Mao (Hong Kong Polytechnic University) |
| **16:30 - 17:30**<br>Meeting Room 1<br>IGLC Research | **POSTER SESSION**<br><br>*Session Chair: Dr. Olli Seppänen* |
| **16:45 - 18:15**<br>Meeting Room 2<br>IPC Research | **SPECIAL SESSION: BIM FOR EDUCATION**<br><br>*Session Chair: Prof. Patrick Hsieh (National Taiwan University)* |
### DAY 4  Friday 31 July

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<td><strong>8:30 - 9:00</strong></td>
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| **9:00 - 10:45** | **THEORY**<br>Meeting Room 1<br>IGLC Research | **Event**<br>*Session Chair: Dr. Lauri Koskela*
- **Nine Tenets on the Nature of Value**<br>Speakers: Frode Drevland, Jardar Lohne
- **Lean Construction as an Operations Strategy**<br>Speakers: Helena Lidelöw, Kajsa Simu
- **Lean Construction theory & practice: An Irish perspective**<br>Speakers: Paul John Ebbs, Paul Sexton, Dominic Greensmith
- **Towards An Operational Definition of Lean Construction Onsite**<br>Speakers: Michelle Sjögren Leong, Steve Ward, Lauri Koskela
- **Design Science Research as a Methodology for Developing Tools to Support Lean Construction Efforts**<br>Speaker: James Packer Smith
- **Where rhetoric & lean meet**<br>Speaker: Lauri Koskela |
| **10:45 - 11:15** | **Morning Tea in the Foyer** |
| **11:15 - 12:45** | **DESIGN MANAGEMENT**<br>Meeting Room 1<br>IGLC Research |
- **Case Study of Design Management: Inefficiencies & Possible Remedies**<br>Speakers: Ergo Pikas, Lauri Koskela, Bhargav Dave, Roode Liias
- **Improvement opportunity in the design process of a social housing developer**<br>Speakers: Claudio Mourgues, Hugo Norero
- **Improving Design Workflow with the Last Planner System: Two Action Research Studies**<br>Speakers: Sheriz Khan, Patricia Tzortzopoulos
- **Lean design versus traditional design approach**<br>Speakers: Thea Sandes Munthe-Kaas, Hallgrim Hjelmbrekke, Jardar Lohne, Ola Lædre
- **Application of product development processes in the early phases of real estate development: A feasibility study**<br>Speaker: Christian Kron
- **Contract models & compensation formats in the design process**<br>Speakers: Kine Kristensen, Ola Lædre, Fredrik Svaletuen, Jardar Lohne
- **Ethics of the design phase - a descriptive approach**<br>Speakers: Fredrik Svaletuen, Jardar Lohne, Vegard Knotten, Ola Lædre |
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| 11:15 - 12:45   | **SESSION V: OCCUPATIONAL HEALTH & SAFETY**  
**Session Chair:** Dr. Farzad Pour Rahimian (University of Central Lancashire)  
**MAS-Based Safety Adaptivity Systematic Simulation Framework for Shielding Construction**  
Speakers: Minghui Yu, Chu Zhang, Hongwei Wang, Yong Xie, Wei Zeng, Hongtao Zhou (Huazhong University of Science & Technology)  
**Holistic Learning: A Workforce Development Paradigm**  
Speakers: Gloria Unoma Ene, Jack Steven Goulding, Godfaurd Adjaie John, Farzad Pour-Rahimian (University of Central Lancashire)  
**Applicability of Wearable Devices for Real Time Construction Safety Management**  
Speakers: Quang Tuan Le, Hai Chien Pham, Akeem Pedro, Chan Sik Park (Chung-Ang University)  
**Traffic Analysis & Application in Shenzhen Based on Dynamic Traffic Zones Separation using Taxi GPS Data**  
Speakers: Yongze Song, Xin Liu, Wenyi Qiu, Yi Chen, Yong Ge, Xiangyu Wang (Curtin University)  
**Characteristics of Dynamic Response of Blast Wall Subjected to Gas Explosion Loads**  
Speakers: Ki-Yeob Kang, Kwang-Ho Choi, & Jae-Myung Lee (Pusan National University)  
**Study on the Regional Industrial Symbiosis for Industrialized Construction Ecosystem**  
Speakers: Kai-jian Li, Yue Teng (Chongqing University) |
| 12:45 - 13:45   | **Lunch in the Foyer** |
| 13:45 - 14:45   | **PEOPLE, CULTURE & CHANGE**  
**Session Chair:** Dr. Luis Fernando Alarcón Cardenas  
**Misconceptions of Lean: Why Implementation Fails**  
Speaker: Brianna Chesworth  
**Study of Barriers & Success Factors in the Implementation of Lean Construction. Exploration in a Pilot Context**  
Speakers: Sandra Liliana Cano Moya, Jonathan Delgado Espinosa, Oscar Rubiano Ovalle, Luis Fernando Botero Botero  
**Lean Diagnosis for Chilean Construction Industry: Towards More Sustainable Practices**  
Speakers: Luis F Alarcón, José L Salvatierra, Angela López, Dayana Velazquez, Javier Marín  
**Characteristics of Maturity in Lean Construction**  
Speakers: Claus Nesensohn, Dave Bryde, Christine Pasquire |
| 13:45 - 14:45   | **IPC KEYNOTE PRESENTATION 9**  
**Session Chair:** Prof. Qinghua He (Tongji University)  
Speaker: Prof. Mani Golparvar-Fard (University of Illinois) |
| 14:45 - 15:15   | **Afternoon Tea in the Foyer** |
| 15:15 - 16:30   | **PEOPLE, CULTURE & CHANGE**  
**Session Chair:** Dr. Luis Fernando Alarcón Cardenas  
**Reducing Variability of a Valuable Construction Input: Subcontractor Workforce**  
Speaker: Matthew Steele Stevens  
**The Use of First Run Studies to Develop Standard Work in (LNG) Plant Refurbishment** |
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<td><strong>SESSION VI: INNOVATION MANAGEMENT</strong></td>
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<td><strong>Session Chair: Dr. Peng Wu (Curtin University)</strong></td>
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<td>IPC Research</td>
<td><strong>Avoiding Stiffness: Perspectives of Agile Technology Diffusion</strong></td>
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<td>Speakers: Volkan Ezcan, Jack Steven Goulding, Farzad Pour Rahimian, Murat Kuruoglu (University of Central Lancashire)</td>
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<td><strong>Housing Stakeholders’ Perspective on Offsite Manufacturing in Nigeria</strong></td>
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<td>Speakers: Shaba James Kolo, Farzad Pour Rahimian, Jack Steven Goulding (University of Lancashire)</td>
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<td><strong>Transnational Adaptation Model for Facilitating Technology &amp; Expertise Mobilisation in Gulf AEC Organisations</strong></td>
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<td>Speakers: Farzad Pour Rahimian, Jack Steven Goulding, Ashraf M. Salama, Steven Ruddock, Hatem Galal Abdelazim Ibrahim (University of Lancashire)</td>
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<td><strong>Monte Carlo Simulation for Preliminary Estimations</strong></td>
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<td>Speakers: Heap-Yih Chong, Xiangyu Wang (Curtin University)</td>
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<td><strong>Supporting Impact, Barriers, &amp; Enablers-Aware decisions on Modularisation Actions</strong></td>
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<td>Speakers: Mauro Mancini, Guido J.L. Micheli, Agnese Travaglini, &amp; Giacomo Gilardone (Politecnico di Milano)</td>
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<td><strong>Information Modelling for Lean Construction: From Field Fit-Up Weld to Shop Welding in Piping Installations</strong></td>
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<td>Speakers: Behrouz K. Beheshti, Hongmei Yao, Maziar Neyshabouri, Xiangyu Wang, Moses Oludayo Tadé (Curtin University)</td>
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<td><strong>Vertical Integration of Lean and Six Sigma into Major Capital Projects: Regaining Control</strong></td>
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<td>Speakers: Maria Milo, Larry Murray, Susanne MacMahon (Variance Reduction International Inc)</td>
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<th>16:30 - 17:30</th>
<th><strong>IGLC BUSINESS MEETING</strong></th>
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<td><strong>Session Chair: Prof. Xiangyu Wang (Curtin University)</strong></td>
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<td>IPC Research</td>
<td>Join Lab for Next generation Construction Tech with Chongqing University</td>
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<td>Award Announcement &amp; Next Conference</td>
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Aconex provides the #1 cloud solution to manage information and processes for the world’s largest construction and engineering projects. Aconex gives owners and contractors in the construction, infrastructure, and energy and resources sectors project-wide visibility and control between the many different organisations collaborating across their projects. With more than 500,000 users and over US$800 billion of project value delivered in 70 countries, Aconex is the industry’s most widely adopted and trusted platform. Aconex has 40 offices throughout the world, including headquarters in Melbourne, Australia and San Francisco, California.

www.aconex.com

At AECOM we work in partnership with our clients to design, build, finance and operate the world’s infrastructure. Our team of advisors, engineers, designers and planners deliver major infrastructure projects in the road, rail, airports, ports, energy and water sectors. Landmark projects include Perth’s Gateway WA and Stadium Station, Sydney’s WestConnex, Queensland’s Inner Northern Busway Alliance and the electrification of Auckland’s rail network.

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Curtin University is an inspiring, vibrant international organisation, committed to making tomorrow better. It is a destination for progressive thinkers, driving advances in technology through high-impact research and offering more than 100 practical, industry-aligned courses connecting to workplaces of tomorrow. With the vision to be an international leader in research and education that changes minds, lives and the world, Curtin is Western Australia’s largest and most multicultural university.

www.curtin.edu.au

Newforma makes software that design and construction teams use to manage project information, including non-graphical data in BIM. Newforma products include the SmartUse app for collaborating over drawings, and Newforma Building Information Management for managing BIM workflows. Newforma products are being used on over 1.7 million projects worldwide.

Visit us at Stand #17
www.newforma.com.au

The Lean Construction Institute Australasia Ltd (‘LCIA’) is a not-for-profit organisation headquartered in Australia. Their objective is to reduce construction inefficiencies and enable productivity best practice in the construction, mining, engineering and architecture sectors. The LCIA partners with industry, service organisations, government agencies and academic institutions. They promote and teach LEAN Construction principles, tools and techniques to improve productivity within Australia and Asia. Delivery of their national Mini-Series and international conferences is helping meet industry demand for LEAN practices and outcomes.

www.lcia.org.au
## EXHIBITOR PROFILES

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| **Booth 12** | A2K Technologies  
A2K Technologies is an industry-leading solutions, training, consulting and management firm specialising in design technology. Our highly knowledgeable and industry-experienced staff from the infrastructure, building, mining and manufacturing sectors enhances our customers’ organisational capabilities, to deliver on project outcomes and differentiate from the competition. |
| **Booth 13** | Aconex  
Aconex provides the #1 cloud solution to manage information and processes for the world’s largest construction and engineering projects. Aconex gives owners and contractors in the construction, infrastructure, and energy and resources sectors project-wide visibility and control between the many different organisations collaborating across their projects |
| **Booth 9-10** | Building Point  
With solutions from Trimble Buildings, customers around the world are finding it possible to build smarter buildings by using smarter tools. BuildingPoint is your partner for these solutions and services which will transform the building design, construction and operation lifecycle. |
| **Booth 8** | Envision  
Envision - powerful, integrated construction management software that delivers measurable value for construction projects. Leveraging web-based and mobile technology, it empowers rapid decision-making as daily field updates connect to a central system, enabling consistent, near real-time project reports and controls. To drive improved productivity, revenue and streamlined project teams, visit [http://envisionapp.com](http://envisionapp.com) |
**Booth 6**

**Exactal**

Exactal are the makers of CostX estimating software, used throughout Australia & the world to measure plans on-screen & estimate costs. With world-leading & innovative BIM & 2D takeoff, integrated workbook & customised reports, all in one program, CostX will make your takeoff and estimating faster, smarter & more accurate.

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**Booth 15**

**I&E Systems**

I&E Systems are Australian owned systems engineers for control and power applications. Specialised tools, like their award winning DAD system information modelling software, and low overheads differentiate them. Their work is of the highest quality and their track record for accuracy and adherence to schedule and budget demonstrate this.

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**Booth 5**

**McDonald’s Surveys**

McDonald’s Surveys is proud to be working with Curtin University's Project Echo. A collaboration that is focused on developing lean systems for construction and asset management. Find us at Stand 5 at Construct15. [www.mcdonaldsurveys.com.au](http://www.mcdonaldsurveys.com.au)

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**Booth 17**

**Newform**

Newforma makes software that design and construction teams use to manage project information, including non-graphical data in BIM. Newforma products include the SmartUse app for collaborating over drawings, and Newforma Building Information Management for managing BIM workflows. Newforma products are being used on over 1.7 million projects worldwide. Visit us at stand #17 - [www.newforma.com.au](http://www.newforma.com.au)

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**Booth 7**

**PlusSpec-Rubysketch**

PlusSpec for SketchUp is an amazing new BIM software, that combines the power of 3D Modelling, 2D Planning, BIM/VDC, and Estimation. PlusSpec uses real manufacturers products from the Australian-made RubySketch online library, and generates automatic specifications and product schedules. Material take-offs and estimates are formulated as you design. Feasibility studies will never be the same again.

---

**Booth 3**

**Salesforce**

Salesforce is the leader in enterprise cloud computing. We help companies connect to their customers in a whole new way with our sales, service, marketing, community, and analytics apps. All of these apps run on a customer success platform so you can manage all your information in one place.

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**Booth 16**

**Solibri**

In the construction industry, a single fault can cost millions. Now you can find that fault and fix it, with Solibri Model Checker. Using Solibri you can check your project for clashes, compliance issues and more. Find out more at [solibri.com.au](http://solibri.com.au)

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**Booth 14**

**TXM Technologies**

TXM is Australia’s leading lean implementation company. With offices across Australia, China, the US and UK and projects across the Asia Pacific, TXM offers practical Lean solutions with sustainable results. TXM has extensive experience of delivering results across the construction industry including offsite construction, civil contracting, engineering design, construction materials, equipment hire, project management and resource project construction.

---

**Booth 4**

**Viewpoint**

Viewpoint provides innovative construction software to the global construction and capital project industries, offering solutions that improve project profitability and visibility, manage risk, and effectively collaborate. Headquartered in Portland, Oregon, USA, with offices in the UK and Australia, Viewpoint is the technology partner of choice for customers around the globe.
Acknowledgements

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Professor Xiangyu Wang, Curtin University (Construct 15 Conference Chair)
Mr. Martijn Truijens, Curtin University (Construct-15 Conference Chair)
Dr. Lei Hou, Griffith University (IPC International Scientific Committee Chair)
Dr. Hung-Lin Chi, Curtin University (IPC International Scientific Committee Co-Chair)
Mrs. Angela Wilson, Curtin University
Dr. Sungkon Moon, Curtin University
Mr. Jun Wang, Curtin University
Professor Steffen Lehmann, Curtin University
Associate Professor Monty Sutrisna, Curtin University

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Dr. Xiangyu Wang, Conference Chair
Dr. Olli Serpänen, IGLC Program Chair
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Dr. Paz Arroyo

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Mr. Aden Parker, Pindan
Ms. Mercy Pringle, Monadelphous