Crown Conference Centre, Melbourne
23 - 25 May 2019
A conference about real solutions - not just software
dbeinstitute.org/event/bilt-anz-2019
The Digital Built Environment Institute (DBEI) is a global non-profit institution focused on promoting and enabling the adoption of Building Information Modelling (BIM), Virtual Design and Construction (VDC), Digital Engineering (DE) and other technological innovations in the Architecture, Engineering and Construction industry. Our organisation is run ‘by users, for users’, with application agnostic insight into changing technology and market conditions. Our community comprises application-agnostic thought leaders, technology implementers, practitioners and end users who are committed to sharing their knowledge and experience to improve efficiency, productivity, and quality in design and delivery of construction projects.

What is BILT?

The Building Infrastructure Lifecycle and Technology (BILT) conference series, a 3-day learning event held annually in Australia and New Zealand, Europe, North America, and Asia. Comprised of over 100 classes taught by recognised industry experts, this conference offers a level of instruction and insight that is not available anywhere else. This is a unique conference that has been created to advance the use of technology in Design, Construction & Operations. As an independent, not-for-profit event, we focus on solutions not software.

Every 3-day conference focuses on sharing the leading edge:

- Understanding BIM workflows to enhance & accelerate design coordination;
- Using 3D models to increase project delivery capabilities and expand client services;
- Automation techniques to enhance organisational productivity and efficiency;
- Mastering BIM software for use in generating design and construction documents;
- Modelling techniques to meet government statutory requirements;
- Deployment strategy and overcoming challenges in organisational BIM implementation.
The BILT conference takes place over 3 days, beginning on Thursday and completing on Saturday night. The agenda consists of a mix of plenary and class sessions, providing opportunities with industry colleagues, create new connections, and share ideas.

**Keynote and Plenary Sessions**

Keynote and plenary sessions are focused on personal development and leadership skills in the work environment, rather than technology and processes. These speakers are personally selected by the committee for their experience and ability to share this knowledge with our delegates.

**Traditional Classes**

Class sessions are 75 minutes long with a speaker sharing their experiences or instruction on a topic of relevance to the AECO/FM industry. Sessions may take the configuration of traditional presentations, panel discussions, workshops or roundtable discussions.

**Lab Classes**

The lab sessions are unique within the BILT conference as they offer participants a hands-on learning experience where attendees are guided while in front of a computer.

**Exhibition Space**

With over 30 booths, delegates also have the opportunity to roam through our exhibition space to discover the latest cutting edge technology and solutions in the industry that have been carefully selected for their relevance to the event and delegates.

**Social Events**

Our social events are designed to facilitate networking, sharing and relationship building amongst the entire BILT community.
## CONFERENEC AGENDA

### THURSDAY 23 MAY 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Level</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30am</td>
<td>Welcome Tea &amp; Coffee, Registration &amp; Exhibition Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00am</td>
<td>Introduction, Chairman  Chris Needham</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30am</td>
<td>HP Spotlight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:40am</td>
<td>Newforma Sponsor Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:50am</td>
<td>KEYNOTE - sponsored by Newforma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:50am</td>
<td>Morning Tea</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30am</td>
<td>AGENDA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Machine Learning across the asset lifecycle</td>
<td>Slaven Marian, Chris Cui</td>
<td>All Levels</td>
<td>SIM DAT MV MEP AD</td>
</tr>
<tr>
<td>1.2</td>
<td>2D schematics in a 3D world</td>
<td>Cameron Lindsay</td>
<td>All Levels</td>
<td>DAT ARC MEP</td>
</tr>
<tr>
<td>1.3</td>
<td>Why Is Change Management Still a Topic Here?</td>
<td>Mark Jeffrey</td>
<td>All Levels</td>
<td>COO VIS NYS</td>
</tr>
<tr>
<td>1.4</td>
<td>Roundtable: The Many Types of Change Management</td>
<td>Jeremy Hanks</td>
<td>All Levels</td>
<td>COO VIS NYS</td>
</tr>
<tr>
<td>1.5</td>
<td>Model Checking - Don’t Wait For The Model To Be Issued!</td>
<td>Quoc Pham</td>
<td>All Levels</td>
<td>MV COD AD</td>
</tr>
<tr>
<td>1.6</td>
<td>Office To Field - Client Lead Implementation Of BIM 360</td>
<td>Nick Rootin</td>
<td>All Levels</td>
<td>MV COD AD</td>
</tr>
<tr>
<td>1.7</td>
<td>How 3D GPU Enabled Desktops Can Solve It Hurdles In The AEC Industry</td>
<td>Justin Lindsey</td>
<td>All Levels</td>
<td>MV COD AD</td>
</tr>
<tr>
<td>1.8</td>
<td>Roundtable: Who Is The Virtual Architect?</td>
<td>Dominic Martens</td>
<td>All Levels</td>
<td>COD ARC</td>
</tr>
<tr>
<td>1.9</td>
<td>Instant model (audit) data with Dynamo and Power BI</td>
<td>Nathan Love</td>
<td>All Levels</td>
<td>COD AD</td>
</tr>
<tr>
<td>1.10</td>
<td>Landscape Architecture workflows for Collaboration and Documentation</td>
<td>Monica Greco</td>
<td>All Levels</td>
<td>COD AD</td>
</tr>
<tr>
<td>1.11</td>
<td>Project Information Management, More Than Just The Project Folder</td>
<td>Willis Lim</td>
<td>All Levels</td>
<td>MV COD AD</td>
</tr>
<tr>
<td>1.12</td>
<td>No Smoke, No Mirrors, Just the Real (DEAL)</td>
<td>Chris Pynn</td>
<td>All Levels</td>
<td>COD INF NVS</td>
</tr>
<tr>
<td>1.13</td>
<td>Sagrada Familia Natively Facade Asbuilt Modelling and 2D Plans</td>
<td>Francisco Asensio</td>
<td>All Levels</td>
<td>ARC GEN MV</td>
</tr>
<tr>
<td>1.14</td>
<td>CLASSIFIED: Unleashing The Power Of Properties In Archicad</td>
<td>Matthew Johnson</td>
<td>All Levels</td>
<td>SIM DAT BSL NVS</td>
</tr>
<tr>
<td>1.15</td>
<td>Revit &amp; BIM: Understand What You Are Selling</td>
<td>Melanie Trisram</td>
<td>All Levels</td>
<td>ARC DAT BSL NVS</td>
</tr>
<tr>
<td>1.16</td>
<td>Roundtable: The Many Flaws Of BIM Execution Plans</td>
<td>Jeremy Hanks</td>
<td>All Levels</td>
<td>COD MV COD AD</td>
</tr>
<tr>
<td>1.17</td>
<td>Instant Model Audit Data With Dynamo And Power BI</td>
<td>Nathan Love</td>
<td>All Levels</td>
<td>COD AD</td>
</tr>
<tr>
<td>1.18</td>
<td>Landscape Architecture Workflows For Collaboration And Documentation</td>
<td>Monica Greco</td>
<td>All Levels</td>
<td>COD AD</td>
</tr>
<tr>
<td>1.19</td>
<td>Project Information Management, More Than Just The Project Folder</td>
<td>Willis Lim</td>
<td>All Levels</td>
<td>COD MV COD AD</td>
</tr>
<tr>
<td>1.20</td>
<td>No Smoke, No Mirrors, Just the Real (DEAL)</td>
<td>Chris Pynn</td>
<td>All Levels</td>
<td>COD INF NVS</td>
</tr>
<tr>
<td>1.21</td>
<td>Sagrada Familia Natively Facade Asbuilt Modelling and 2D Plans</td>
<td>Francisco Asensio</td>
<td>All Levels</td>
<td>ARC GEN MV</td>
</tr>
<tr>
<td>1.22</td>
<td>CLASSIFIED: Unleashing The Power Of Properties In Archicad</td>
<td>Matthew Johnson</td>
<td>All Levels</td>
<td>SIM DAT BSL NVS</td>
</tr>
<tr>
<td>1.23</td>
<td>Revit &amp; BIM: Understand What You Are Selling</td>
<td>Melanie Trisram</td>
<td>All Levels</td>
<td>ARC DAT BSL NVS</td>
</tr>
<tr>
<td>2:00pm</td>
<td>Changeover</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30pm</td>
<td>Setting A New Bar In Digital Handover, From D&amp;C To Operations</td>
<td>Daniel Kalnins</td>
<td>All Levels</td>
<td>O&amp;M DAT MV</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Simple Tool For Setting Up A BIM Model At A Project's Conceptual Stage</td>
<td>George Parr</td>
<td>All Levels</td>
<td>O&amp;M DV MOD ARC GRA</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Workshop: Demonstrating Your Brand &amp; Value At Work</td>
<td>Katherine Mair</td>
<td>All Levels</td>
<td>O&amp;M DAT BSL NVS</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Workshop: Objects On Film Model Content Planning</td>
<td>Keeley Pomery</td>
<td>All Levels</td>
<td>DAT COD NYS</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Thirty Interesting Ways To Improve Your Day With Dynamo</td>
<td>Ian Shaw</td>
<td>All Levels</td>
<td>DAT COD AD</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Digital Fabrication: Bridging The Gap Between Concept &amp; Construction</td>
<td>Paul Wintour</td>
<td>All Levels</td>
<td>DAT COM OY</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Engineering Success With Leica Geosystems Digital Workflows</td>
<td>Tim Phillips</td>
<td>All Levels</td>
<td>DAT COM OY</td>
</tr>
<tr>
<td>3:30pm</td>
<td>BIM In Linear Infrastructure Projects</td>
<td>Daniel Moodie</td>
<td>All Levels</td>
<td>INF COD AD</td>
</tr>
<tr>
<td>3:30pm</td>
<td>PyRevit Extended</td>
<td>Russell Strange</td>
<td>All Levels</td>
<td>INF MV AD</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Interactive VR Development With Unity</td>
<td>Johan Hanegraaf</td>
<td>All Levels</td>
<td>INF MV AD</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Afternoon Tea &amp; Exhibition Close</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:30pm</td>
<td>Setting A New Bar In Digital Handover, From D&amp;C To Operations</td>
<td>Daniel Kalnins</td>
<td>All Levels</td>
<td>O&amp;M DAT MV</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Simple Tool For Setting Up A BIM Model At A Project's Conceptual Stage</td>
<td>George Parr</td>
<td>All Levels</td>
<td>O&amp;M DV MOD ARC GRA</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Workshop: Demonstrating Your Brand &amp; Value At Work</td>
<td>Katherine Mair</td>
<td>All Levels</td>
<td>O&amp;M DAT BSL NVS</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Workshop: Objects On Film Model Content Planning</td>
<td>Keeley Pomery</td>
<td>All Levels</td>
<td>DAT COD NYS</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Thirty Interesting Ways To Improve Your Day With Dynamo</td>
<td>Ian Shaw</td>
<td>All Levels</td>
<td>DAT COD AD</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Digital Fabrication: Bridging The Gap Between Concept &amp; Construction</td>
<td>Paul Wintour</td>
<td>All Levels</td>
<td>DAT COM OY</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Engineering Success With Leica Geosystems Digital Workflows</td>
<td>Tim Phillips</td>
<td>All Levels</td>
<td>DAT COM OY</td>
</tr>
<tr>
<td>4:30pm</td>
<td>BIM In Linear Infrastructure Projects</td>
<td>Daniel Moodie</td>
<td>All Levels</td>
<td>INF COD AD</td>
</tr>
<tr>
<td>4:30pm</td>
<td>PyRevit Extended</td>
<td>Russell Strange</td>
<td>All Levels</td>
<td>INF MV AD</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Interactive VR Development With Unity</td>
<td>Johan Hanegraaf</td>
<td>All Levels</td>
<td>INF MV AD</td>
</tr>
<tr>
<td>6:00pm</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FRIDAY 24 MAY 2019

7:30am Welcome Tea & Coffee & Registration
9:00am 2.1 Introduction, Chairman Chris Needham
Software/Hardware Sponsor Address
9:20am Autodesk Case Study
9:50am Cloud A2K Sponsor Address
10:00am KEYNOTE - sponsored by Cloud A2K

11:20am 2.2 Level Crossing Removal Authority - The Connected Site
Matthew Bowler David Murphy
DAT BSL NVS
Intermediate

Dynamo, Why So Serious??!
John Pierson
COM COD AD

Implementing a Digital Practice - Looking Beyond BIM Management
Steve Nonis Elian Bensky
MOD COD BSL
All Levels NVS

Revit on Forge: What does it mean and where can we start!
Mikado Harrada
MOD ARC AD
Advanced

Choosing your Standards from 50 ways to do that in Revit
Tim Waldeck
MOD ARC AD
Advanced

A Guide to ISO 19650 - Information management using BIM
Mark Cronin Toby Maple
GEN DAT NVS
All Levels

Presentation Coming Soon

Modeling Existing Bridges based on Excel using Revit & Dynamo
Alex Tohidi Gerard Rusinol
COM INF NVS
All Levels

The Power of Business Intelligence - Power BI
Guoc Pham Andrew Bagnall
DAT VIS OYMEP SIM AD
Intermediate

12:35pm Lunch

1:35pm 2.3 A government agency BIM programme in action
Liz Partridge Glenn Sinclair
GEN PRM NVS
All Levels

Co-locating Discipline Models for Successful OpenBIM Model Coordination
Rohan Bailey
MOD BIM BSL
Intermediate MV

Structuring your teams for success
Melanie Tristram
MOD BIM BSL
Intermediate AD

Deciphering the language of Revit Warnings
Richard Taylor
MOD BIM BSL
Intermediate MV

Auto Layout: A Large Goal with Small Beginnings
Shawnee Finlayson Ben Doherty
COM DAT NVS
All Levels

Collaborating with Contractors
Matt Fern
MEP COM AD
Advanced

Victoria’s Level Crossing Removal Project’s Design Reuse Revolution
John Dyer
INF CDT NV
All Levels

Presentation Coming Soon

Presentation Coming Soon

CW Code Basics 101: Matching your understanding to your goal
Jade Warner

2:50pm Changeover

3:00pm 2.4 Presentation Coming Soon
Path to Solibri
Linde Ryckeboer
DAT COD MV
Intermediate

Understand your audience before you train it: Revit training with a purpose
Monica Greco
BSL Intermediate AD

The path to COBie, my journey on Major Project
Dimas Novais
DAT BIM NVS
All Levels

Doors - the Key to Opening your Frame of mind
Glenn Sinclair
COT MOD NVS
Intermediate A

Popeye’s spinach for Project Controls
Pieter Rautenbach
PRC COM NV
All Levels

Workflow on Rails
Adam Sheather
COM MOD AD
Advanced

Presentation Coming Soon

Presentation Coming Soon

CW Code Basics 101: Matching your understanding to your goal
Jade Warner

4:15pm Afternoon Tea

4:45pm 2.5 ADHB Journey to the end of BIM, Digital Operations, a Case Study
Kevin Thickett Matt Meredith
BSL NVS
All Levels

Civil BIM without Tears
Lee Gregory
INF BSL QV
All Levels

Workshop: The BIMe Initiative - knowledge sharing and open source tools
Bilal Succar
BSL NVS
Expert

Dynamo Protocols for Success - Standardising Dynamo Deployment
Scott Crichton
COD BSL AD
All Levels

Reinventing IT for AEC - Strategies for beyond the IT Server Room
Robert Mariani
BSL NVS
All Levels

Optimisation in Design using Evolutionary Algorithms
Matt Wash Ivan Tofield
SIM NV
All Levels

Presentation Coming Soon

Presentation Coming Soon

Flex Your Families: Awesome methods to make your families stretch and flex
John Pierson
MOD PRC NVS
Intermediate AD

6:00pm Networking Function Exhibition Hall
8:00pm Networking Function Concludes
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30am</td>
<td>Welcome Tea &amp; Coffee, Registration &amp; Exhibition Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45am</td>
<td>Breakfast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15am</td>
<td>Morning Tea</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:45pm</td>
<td>Afternoon Tea &amp; Exhibition Close</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:15pm</td>
<td>Vision 20/20 Presentation</td>
<td>Chris Needham</td>
<td>Intermediate</td>
<td></td>
</tr>
<tr>
<td>3:45pm</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:15pm</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Liz Partridge**  
**NSW Health Infrastructure**

Liz is Senior Project Director in the Development and Innovation team at NSW Health Infrastructure, where she leads the agency’s BIM programme and acts as the Secretariat of the Australasian Health Infrastructure Alliance, a public sector collaboration which produces a range of freely available digital resources for industry. This year at BILT ANZ she will present small selection of the collaborations, initiatives and industry practices this state government department has been a part of and their experience in creating a BIM programme and its implementation in projects.

**Mark Jeffrey**  
**ODG Solutions**

Mark Jeffrey is best known as a business owner, international speaker, not-for-profit contributor, and passionate promoter of a positive workplace culture. His session at this year’s BILT ANZ will workshop with attendees how to influence, negotiate, sell and market themselves and their firms.

**Quinton Cooper**  
**Cottee Parker Architects**

Quinton Cooper is currently the National Training and Development Manager at Cottee Parker Architects. He has worked as a documenter and model manager on a diverse range of projects from small residences to large health, defence and government projects. His session at this year’s BILT ANZ focuses on how to handle inherited information and the management of this data in a way so that common BIM deliverables are generated in parallel with common documentation outputs.

**Matthew Bowler**  
**GHD**

Matthew Bowler leads GHD’s Commercialisation practise which includes, creating and executing new business models to the business drawing on both GHD innovation or those of third parties. His session at this year’s BILT ANZ will focus on a trial project GHD has implemented where digital technologies have been deployed to improve the transparency and awareness of real time information at project sites.

**Kevin Thickett**  
**Aurecon**

Kevin has been operating at the forefront of digital technologies including presenting at a national and international level on topics such as cross platform collaboration, model coordination & clash detection, high density laser scanning, and using BIM for engineering calculations. His topic this year at BILT ANZ will feature Auckland District Health Board and his collaboration with them so far in order to have accurate digital FM data on both new and existing assets.
Matthew Johnson
POWE Architects
Matthew has spent the last 20 years researching and applying the methods and strategies of integrated building information modelling techniques within a growing architectural practice in South-east Queensland. His session at BILT ANZ will explore property data in ARCHICAD; how to harness it and how to manipulate data that has been extracted from multiple sources within a model into ARCHICAD properties.

Shawnee Finlayson
BVN
Shawnee is a National Design Technology Coordinator at BVN Architecture. As a self-professed nerd she has a growing passion for implementing data-driven design processes on projects and using data analysis and visualisation to showcase their advantages. This year at BILT ANZ she will be showcasing the company’s very own internal office redesign using Machine Learning to determine the ideal location and how they overcame complications associated with existing data collection from Revit models.

Matt Meredith
Auckland District Health Board
Matt Meredith is the Digital Design & Delivery Manager at the Auckland District Health Board. He also sits on the BIM Auckland committee. Matt heads up the charge for improved digital engineering workflows, practices and process within the Auckland DHB. With healthcare infrastructure being critical to social development, Matt leverages the benefits of BIM and Digital Engineering to employ data-centric solutions around design, construction, maintenance and operation.

Chris Pynn
Laing O’Rourke
Chris is a Principal Digital Engineer at Laing O’Rourke, responsible for development and implementation of hub wide and project specific digital engineering strategies on major project portfolio. Chris has over 25 years experience and has been responsible for the delivery of some of the world’s mega infrastructure and building projects. Chris is now enjoying the challenge and opportunity of working in a managing contractor role where the creation of value from best practice DE implementation provides tangible benefit for LOR and their clients.

Katherine Mair
M.A.D. Mindworks
Katherine Mair is a deeply experienced coach who regularly works with Senior Executives to help them materially improve their presence, impact and effectiveness. She brings expertise in a range of areas from Critical Thinking and Problem Solving to Teamwork, Collaboration and Leadership. Katherine’s passion for learning and sharing knowledge is a consistent theme underpinning all her life pursuits. It is grounded in the belief that through continual learning we can expand our mind, challenge our assumptions and continue to evolve at work and in life.
THANK YOU TO SPONSORS

DIAMOND SPONSOR

AUTODESK

PLATINUM SPONSORS

hp | NVIDIA | HVE ConneXions

GOLD SPONSORS

NEWFORMA | Leica Geosystems | A2K

SILVER SPONSORS

ideate software | CADGROUP | BLUEBEAM

SUPPORTING ORGANISATIONS

MELBIM | buildingSMART Australia | Wi3

BROUGHT TO YOU BY

DBEI | DIGITAL BUILT ENVIRONMENT INSTITUTE