



World
Building
Congress
2022

CIB



27-30 June 2022
RMIT University
Melbourne

EVENT REPORT

WOMINJEKA

WBC2022 acknowledges the people of the Woi wurrung and Boon wurrung language groups of the eastern Kulin Nations on whose unceded lands the Congress took place. We respectfully acknowledge their Ancestors and Elders, past, present and emerging.

Property,

Construction and

Project Management

BUILDING OUR FUTURE:

*Informing practice to enhance the lives
of current and future generations*

WBC2022 focussed the building community's attention on making our world a better place to live.

Hosted by RMIT University in Melbourne, Australia (27 - 30 June 2022), WBC2022 showcased the work of the CIB Working Commissions and Task Groups. At the Congress, there were sessions focusing on the ongoing research of our members, thematic keynotes and industry sessions, and feature presentations on state-of-the-art infrastructure and building projects currently under construction in Melbourne and around the globe.



MESSAGE FROM THE CHAIR WBC2022 ORGANISING COMMITTEE

Ron Wakefield
Organising Committee Chair

It's almost hard to remember what pre-pandemic life was like when we started planning this event in 2019. Our visions for WBC2022 and the future we hoped to build were dramatically upended, along with so many people's lives, by the impacts of COVID-19. From travel bans to vaccines and lockdowns to variants, the pandemic's ups and downs challenged our Organising Committee throughout the production period leading up to the Congress. But despite the uncertainty, I'm extremely proud of our team for having been able to deliver a highly successful event in 2022 - CIB's first hybrid World Building Congress.

The dedication of the global CIB community made the Congress possible. Together the WBC2022 Scientific Committee, CIB coordinators, and RMIT local project team pushed through the unknowns, and the participation from our event partners, presenters and authors exceeded our expectations. I'd like to take this opportunity to thank all those who made the time and effort to make this event a reality.

Throughout the past three years we've been more dedicated than ever to keeping innovation and collaboration alive within the international building community. On behalf of CIB, I would like to thank all of our wonderful sponsors, partners, production crew and volunteers for their outstanding contributions to making WBC2022 a success.

We've demonstrated our industry's and experts' ability to respond to existential threats with agility, resilience, and unwavering dedication to the greater good. That commitment remains stronger than ever as we now shift our focus to WBC2025.



Deputy Lord Mayor Nicholas Reece shared a joke with CIB President Keith Hampson at the Welcome Reception on Day 1 of WBC2022.

WBC2022 THEMES



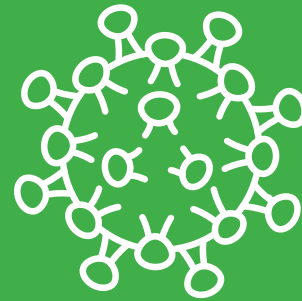
Climate change and environmental sustainability, including circular economy, construction and demolition waste and sustainable supply chains



Addressing poverty and inequality, especially through access to appropriate social and affordable housing



Smart built environment / smart cities / smart communities including transport networks



Responding to COVID-19: how the built environment supports health and well-being and how construction and the built environment contribute to economic recovery



Industrialised / offsite construction / pre-assembly



Digital Construction / Construction 4.0

Corey Hannett (Director General, MTIA) answered questions from the audience on Day 1.



WBC2022 SNAPSHOT

647

Total Attendees from

39

Countries

429

Original Research Papers Presented

126

Program Sessions in

23

Program Categories

9

Keynote Speakers

330

Attendees Online

270

Students Attending

11

Concurrent Sessions

15

Congress Venues

TOP CATEGORIES

Dr. Jun Wang
Chair, IPC 2022



Papers Presented

46

IPC 2022: International Conference on Innovative Production and Construction

43

Smart and Sustainable Buildings and Cities

43


W078: Information Technology for Construction

27

Organisation and Management of Construction: New Challenges and Opportunities

27

Accelerating Innovation in Construction

A photograph of Dr. Jacqueline Cramer, an older woman with short white hair, wearing a black and white patterned jacket and a necklace. She is speaking and gesturing with her hands. The background is a light blue wall. A green diagonal graphic element is in the top right corner.

*“The building sector is a major priority.
We need to change the present
system and move to a more
circular building system.”*

Dr. Jacqueline
Cramer

IMPROVED ACCESS AND ENGAGEMENT

WBC2022 was CIB's first hybrid-format World Building Congress, which enabled online and onsite participation among delegates in Melbourne and abroad.

WBC2022 had more registrations than any previous World Building Congress - thanks in part to the ability of delegates to join the Congress online.

The hybrid format provided an opportunity for industry, researchers and policy-makers to use the Congress as a platform to reach new audiences, collaborate and inspire innovation.

Online registrations fees were heavily discounted - 75% off the standard fee - and online student registration was nearly free - just \$33 AUD. Affordable online ticket options removed access barriers for participants for whom the cost of travel to Australia was prohibitive.

Session recordings are available for delegates to view and discuss up to 12 months after the event.

Incorporating online events and live-stream attendance options allowed more health vulnerable and remote audience members to engage with the Congress. Doing so was met with positive feedback, and this aspect of the program will likely continue in some form in future events to uphold that level of access.

Award winning papers were translated into Mandarin or Japanese to improve research dissemination and impact.

All efforts were made to help ensure our venues and events were as inclusive and accessible as possible. This is an ever-evolving process as CIB continues to deliver programming that aims to engage the widest possible audience.





Hybrid Parallel and Plenary Sessions at WBC2022

DEMONSTRATED VALUES

Sustainability

Diversity and
Inclusion

Respect for
Australia's First
Nations

Opportunities for
Students

Concern for the
Well-Being and
Safety of Others



COVID PLAN IN ACTION

In-person events complied with a comprehensive COVID-safe event delivery plan.

- Pre-registered event tickets to restrict numbers and collect data for tracing
- Advised audience members to stay at home if unwell, and get tested
- Masks were freely available at the registration desk and recommended when attending in person events
- Ensured audience members followed the directional signage
- Enabled flexible, last-minute changes to online presentations for unwell presenters, including keynote speaker(s) and plenary session host(s)
- Recommended social distancing between audience members at all times
- Practiced hand hygiene and made hand sanitiser available



A SUSTAINABLE EVENT

A Paperless Congress

- QR codes replaced printed materials for WBC2022's online-only program and maps.
- The Congress E-Booklet offered program guide and visitor information as a digital resource.
- The Book of Abstracts was published as an e-Book only.
- All WBC2022 promotional marketing was exclusively digital to reduce paper waste.

Good Riddance to Swag Bags and Lanyards!

- Congress freebies and lanyards usually end up in landfill soon after the event.
- WBC2022 chose instead reusable name tags, and souvenirs like Keep Cups and tote bags were available for purchase from the RMIT Store.

Reusable Event Collateral

- (e.g. banners and tablecloths) were intentionally designed without dates.

Under-Catering by 10% to Reduce Food Waste

- All catering was presented with recyclable or reusable packaging.

WBC2022 Partnered with The Tree Project

- an organisation dedicated to returning healthy, sustainable and indigenous ecosystems to the Victorian landscape.
- WBC2022 donated its seedling centrepieces for planting in the Yarra Valley and other parts of Victoria in need of native revegetation.

All Congress Venues

- including WBC2022 accommodation partner Scape were co-located within easy walking distance and conveniently accessible on public transport routes.



PROGRAM HIGHLIGHTS



SUE EDDY
Chief Executive Officer
Victorian Building Authority (VBA)



JACQUELINE CRAMER
Member
Amsterdam Economic Board



DONGPING FANG
Dean, School of Civil Engineering
Tsinghua University



COREY HANNETT
Victoria's Director-General
Major Transport Infrastructure
Authority (MTIA)



THOMAS UHD
*Head of Sustainability
& External Relations*
Cementir



CHIMAY ANUMBA
*Dean, College of Design,
Construction and Planning*
University of Florida



JAMES BAKER
CEO, Graphene@Manchester
University of Manchester



PAUL CARTUYVELS
Executive Director
BOUYGUES Europe

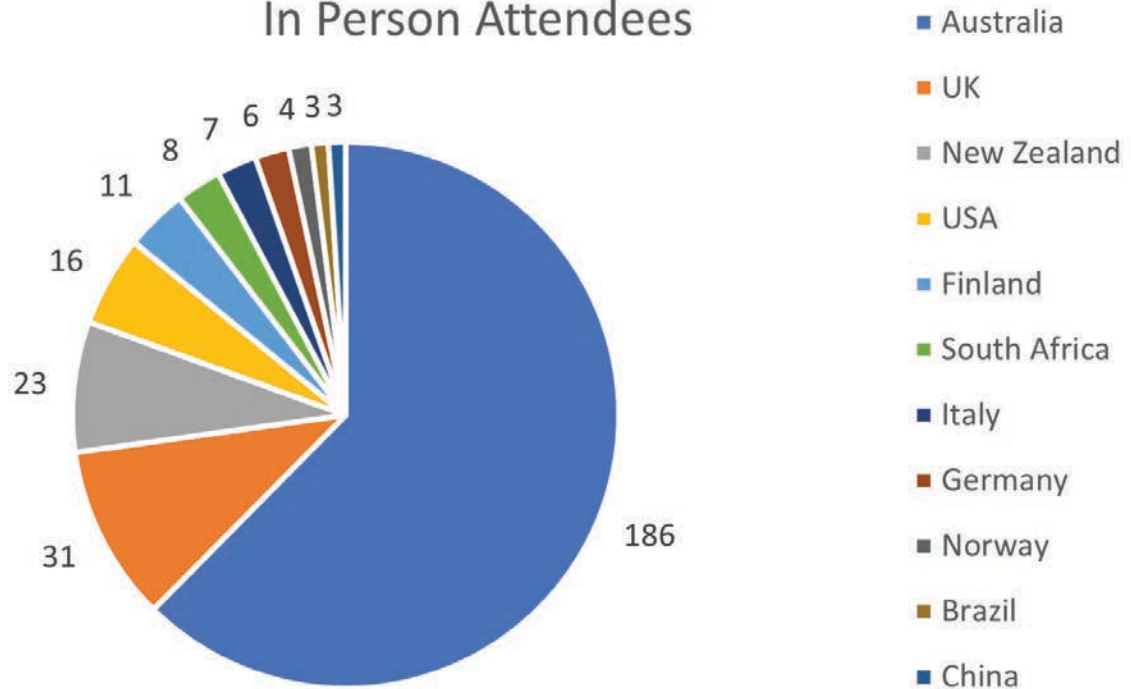


ALISTAIR GIBB
*Emeritus Professor of Construction
Engineering Management*
Loughborough University

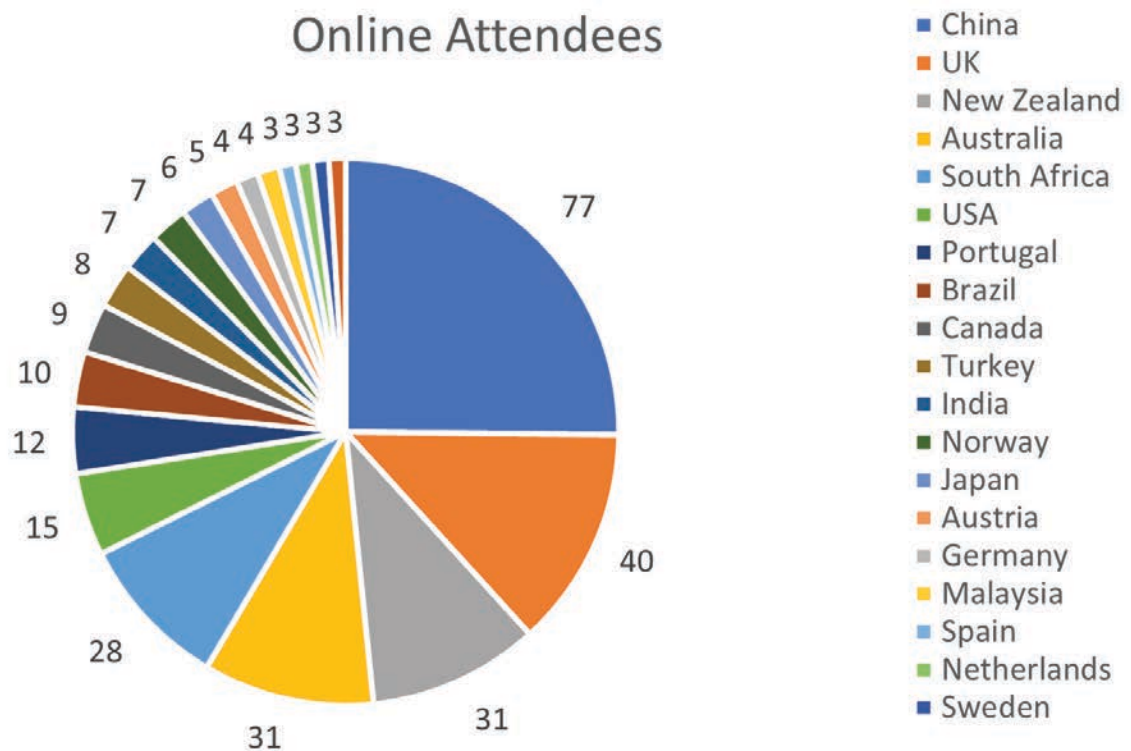


A GLOBAL CONGRESS

In Person Attendees



Online Attendees





STUDENTS AT WBC2022

270

Students Registered

19

Student Volunteers

7

CIB Student Chapters

**CIB SEBESTYÉN FUTURE
LEADERS AWARD 2022**

Massey University

**BEST STUDENT PAPER
OF THE CONGRESS**

Reducing embodied carbon emissions of concrete modules in high-rise buildings through structural design optimisation

***by Yang Zhang, Wei Pan and Yue Teng
The University of Hong Kong***

SPONSORSHIP AT WORK



Built demonstrates VR at WBC2022



MTIA's popular WBC2022 exhibit



VBA CEO Sue Eddy captivates the crowd in Storey Hall

SPONSORSHIP AT WORK



Alpha Solar Tech's interactive WBC2022 exhibit



Brand visibility translating to real leads at WBC2022



REFLECTIONS

Key Achievements

The feedback from our partners and audience was that WBC2022 - CIB's first hybrid format World Building Congress - was a resounding success despite challenges from the pandemic.

- Despite the uncertainty and logistical challenges, the Congress presented 130 events.
- The targeted engagement with CIB Working Commission and Task Groups proved highly beneficial, providing them with a platform to discuss and promote research at the first major CIB gathering for years.
- High profile speakers and guests attracted audiences and media coverage.
- Reflecting on our experience and reviewing feedback from our members and partners, CIB has identified a number of opportunities for growth.
- The Congress inspired some attendees to establish ongoing programs and projects related to research discussed at WBC2022.

Challenges

Not surprisingly, the biggest event challenge was the impact of COVID-19. Extreme uncertainty disrupted the event planning and programming process in many ways, including effects on confirming participation and scheduling events.

- Some sponsors we targeted didn't have capacity to participate due to their own COVID disruptions.
- There were both advantages and disadvantages for the production team working remotely.
- Audience and participant bookings were affected in the lead up to the Congress. We saw a marked increase in early June, but this did not always convert to full attendance numbers on the day of the events.

Opportunities

- Benefits of the hybrid event format were clearly demonstrated. Future WBCs should adopt hybrid and other innovative formats.
- Establishing consistent platforms for the website, social media and publishing will promote retention and growth among participants.



WBC2022 SPONSORS

CIB extends our deepest appreciation to all of our sponsors and partners for their incredible support in helping to create this unforgettable event. We look forward to working with you all again.

Platinum Sponsor



Gold Sponsors



Silver Sponsors



Other Partners



WBC2022 CREW

Local Organising Committee

Ron Wakefield	Chair
Erin Mellencamp	Project Manager
Viet Hoang	Design
Daniel McLinden	Sponsorship
Marsha Lamb	Finance
Elima Pozenel	Operations

AV and IT Support

Jo Jennings	AV Manager
Nick Rossi	Lead Technician

CIB Staff

Don Ward	CEO
Michael Behm	Programme Director
Debbie Gray	Membership & Marketing Manager

Venue Manager

Matthew Shea

Photography

Matt Houston

With additional help from

Nicole Gillard
David Caliste
Caroline Ferguson
Priyanka Erasmus

Insight Systems AV Technicians

and

Our amazing volunteers