

DESIGNING & ENGINEERING BUILDING
**ENVELOPE DESIGNS THROUGH
HOLISTIC INNOVATIONS**



**15, 16, 17
SEPTEMBER
2020**

REDEFINING THE COURSE OF FAÇADE DESIGN, ENGINEERING AND CONSTRUCTION: WEATHERING THE PANDEMIC STORM

The current times of remote working have presented the architectural community with an unprecedented opportunity of breathing in a new life into the façade and building infrastructure in general, by making it more digital. The pandemic has usurped the sense of normalcy in virtually every sphere of life, and the construction companies have been equally affected and will require to adapt and adopt new rules of business in the post pandemic world.

Adapting to the new normal, Zak is also presenting the digital edition of the Zak World of Façades Australia conference to ensure that the industry leaders can come together virtually to chart and pave the new path of the façade designing and engineering. We endeavour to have real time conversations which can guide and create new survival-to-revival models for the façade design and construction community, while ensuring that the infrastructure continues to create better living environment.

We invite you to participate at this year's digital edition and hear from the subject matter experts how they foresee the façade design changing and how they intend to resolve the novel challenges being thrown at them in the current times.

KEY HIGHLIGHTS AT THIS YEAR'S EDITION

Learn about bespoke façade designs, ESD, heritage façade conservation, façade prototyping, digitization and a wide range of project case studies

Attend workshops for the in-depth technical insights on topics including thermal performance, cladding disputes and GRC

Virtually network with the conference attendees to meet industry colleagues and establish new contacts for new business opportunities



PRESENTATIONS

Speakers will present live freshly curated content on designing, engineering and executing building envelopes



PROJECT CASE STUDIES

Comprehensive case study of iconic project from design to execution with 3-4 stakeholders (architect/façade consultant/developer/contractor) of the project



PANEL DISCUSSION

Take part in a live panel discussion with 4-5 industry experts talking on topical subject and moderated by an expert



VIRTUAL WORKSHOP

Hands on 45 mins session of virtual workshop led by industry trainers on a topic



1-TO-1 NETWORKING

Direct chat and private video calls with all the event participants and speakers via the inbuilt video conferencing software



EXPO BOOTH

All expo booths have a dedicated video chatroom along with company details and representatives video cam and screenshare features

15, 16, 17 September 2020

08.30 - 11.00 & 15.00 - 17.00

CONFERENCE AGENDA

15 SEP | SESSION-1 (08.45 - 11.00)

08.45 NETWORKING

09.00 WELCOME ADDRESS & INTRODUCTION OF THE SPEAKERS

Ahad Ahmed, Director, Zak Group

- #### 09.05 THE EXPRESSIVE BUILDING FAÇADE OF AN INNOVATION PRECINCT
- Evolution of an architectural language for the Melbourne Connect façade
 - The façade's role as part of a larger building ecosystem, performance it's parameters and a responsive approach
 - How climate change action is not just about ESD built solutions but its about education and expression in design to make people aware that the façade is so much more complex than just an ESD response



Hazel Porter
Principal,
Woods Bagot

09.35 BESPOKE FAÇADE DESIGN AND THE DYNAMICS OF FAÇADE INDUSTRY IN THE REGION

- Value generation through design
- Innovation journey
- Beyond compliance



Zamaneh Khoshdel
Associate,
Inhabit Group

10.00 BREATHING FAÇADES

- Naturally ventilated high-rise and megatall commercial buildings (Case study: Merdeka118, Kuala Lumpur, the second tallest building in the world)
- The impact of façade design on the contemporary workplace
- Section J: Impact on NSW façade design



Mark Curzon
Director,
Fender Katsalidis

10.30 JOINT Q&A

10.45 NETWORKING

15 SEP | SESSION-2 (15.00 - 17.00)

15.00 WELCOME ADDRESS & INTRODUCTION OF THE SPEAKERS

Ahad Ahmed, Director, Zak Group

- #### 15.05 WESLEY PLACE: ADAPTATION AND RE-LIFE WITHIN THE CITY
- Design opportunities and challenges: Balancing heritage and workplace principles
 - Evaluating technical aspects of the façade design with a focus on engineering and testing of façade fins
 - Managing visual distortion and quality of curved glass



Simon Haussegger
Director,
Cox Architects



Lin Lin
Associate Principal,
BG&E Façades

- #### 15.35 435 BOURKE STREET: A TALL TOWER DESIGNED AS A LIVING ECOSYSTEM
- Reinterpreting the traditional commercial skyscraper
 - Building as organism
 - People focused design



Cian Davis
Director,
Bates Smart

- #### 16.00 TALKING SKIN
- Designing for a humane, active and healthy city environment
 - Answering the big questions with small details
 - Transforming our existing fabric and providing the best answer to our new challenges



Sander Versluis
Associate,
UNStudio

16.30 JOINT Q&A

16.45 NETWORKING

16 SEP | SESSION-1 (08.45 - 11.00)

08.45 NETWORKING

09.00 WELCOME ADDRESS & INTRODUCTION OF THE SPEAKERS

Ahad Ahmed, Director, Zak Group

- #### 09.05 GILLIES HALL AND LA TROBE 624 - CHASING PASSIVE HOUSE, PREFABRICATION AND POETICS
- Chasing Passive House Certification and Mass Timber: Driving low carbon outcomes through mass timber and a passive house compliant façade for Monash University Gillies
 - Prefabrication and unitisation of the façade of La Trobe 624: Taking the lessons learnt in façade performance and working with industry to create a unitised façade outcome
 - Poetics of façade and repetition: Looking across the architectural language of both Gillies Hall and La Trobe 624 and looking at how simple repetition, colour and an understanding of materials informed the design outcomes



Simon Topliss
Associate Director,
Jackson Clements Burrows Architects

09.35 FROM DREAMS IN THE CLOUD TO REALITY ON SUPER HIGH-RISE FAÇADES IN AUSTRALIA

- Case study: Australia 108, tallest residential tower in the southern hemisphere
- Case studies: Melbourne Square, Southbank's largest Park.
- Digital drive of façade engineering



Li Yang
Technical Director - Built Environment,
Aurecon

10.05 HERITAGE CONSERVATION - ENGINEERING THE PAST FOR THE FUTURE

- What is conservation engineering?
- Historic building stock - Tackling the climate emergency
- Embracing technology - Unlocking heritage sites



Scott Brookes
Associate - Heritage Engineering,
Meinhardt Façade Technology

10.30 JOINT Q&A

10.45 NETWORKING

16 SEP | SESSION-2 (15.00 - 17.00)

15.00 WELCOME ADDRESS & INTRODUCTION OF THE SPEAKERS

Ahad Ahmed, Director, Zak Group

- #### 15.05 QUANTIFYING THE EPHEMERAL: PHYSICALLY ACCURATE RENDERING OF FAÇADES
- Using data to predict visual aesthetic
 - The role of virtual façade prototyping
 - Integrating aesthetics and performance



David Barker
Principal,
Integral Group

15.30 FAÇADE CLADDING FIRE SAFETY UNDER THE BUILDING CODE OF AUSTRALIA

- External Fire Spread under the Building Code of Australia (BCA)
- ACP Cladding Assessment Methodology under the BCA
- Australian Cladding Guidelines - Existing & New Buildings



Amer Magrabi
Principal,
Lote Consulting

15.50 DIGITAL INFLUENCE ON FAÇADE DESIGN: CHANGING THE FUTURE OF DESIGN FOR A NEW WORLD

- Parametric design & complex geometry buildings - Future of high rises
- Technological advancement in construction techniques for digital facades
- BIM visualizing & 3D design of a building before construction: Helping realize novel and complex ideas into reality
- Evolution of design and fabrication technologies in Post-Covid era: Forecasting the trajectory

MODERATOR



Elissa Stirling
Regional Manager - Victoria,
Inhabit Group

PANELISTS



Mariola Kesy
Project Leader,
Cottee Parker Architects



Igor Kebel
Director,
XO Projects

* More panelists to be added. Visit the website for updated names

16.30 JOINT Q&A

16.45 NETWORKING

17 SEP | SESSION-1 (08.45 - 11.00)

09.00 WELCOME ADDRESS & INTRODUCTION OF THE SPEAKERS

Ahad Ahmed, Director, Zak Group

09.05 60 MARTIN PLACE, SYDNEY: DESIGNING A NEW CITY SKYLINE

- The computational design
- Economy, repetition and originality in façade design
- Making a statement though façade and context



Tony Grist
Principal,
Hassell

09.35 DESIGNING & ENGINEERING THE RESPONSIVE OPERABLE BLIND SYSTEM AT UTS CENTRAL, SYDNEY

- A comprehensive case study on the design, engineering and fabrication of the complex operable blinds and sunshades designed by fjmt Studio (Architect) and executed by Tilt Industrial Design (specialist sub-contractor) along with their parametric/BIM/CAD/CAM integrator Parametric Monkey



John Perry
Associate Principal,
fjmt Studio



Gema Edo
Architect,
fjmt Studio



Paul Wintour
Founder,
Parametric Monkey



Tim Phillips
Managing Director,
Tilt Industrial Design

11.00 NETWORKING

17 SEP | SESSION-2 (15.00 - 17.00)

15.00 WORKSHOP A: DESIGNING WITH GRC FOR AUSTRALIAN PROJECT

- Applications of GRC in the Australian market
- The importance of quality assurance for the satisfactory supply of GRC
- Recent developments in R&D for GRC
- FEA versus Reality
- Importance of Australian fire testing for GRC

TRAINERS



Charles Rickard
Principal,
Rickard Engineering

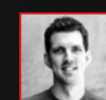


Arash Hemmati
Partner,
Rickard Engineering

15.00 WORKSHOP B: PARAMETRIC TOOLS TO SUPPORT NET-ZERO CARBON BUILDING DESIGN

- Leveraging data in estimating embodied and operational carbon
- The role of parametric tools in integrating cross-disciplinary design knowledge
- Demonstrations of custom tools in typical design exercises

TRAINERS



Nick Williams
Principal | Computational
Design & Automation,
Aurecon



Pablo Sepulveda
Integrated Design Lead,
Aurecon

15.45 NETWORKING

16.00 WORKSHOP C: NAVIGATING CLADDING DISPUTES: THE AUSTRALIAN LANDSCAPE

- What is the current landscape in Australia re-cladding disputes?
- What is the response of the Australian insurance industry to the cladding crisis?
- What can be done to mitigate cladding related exposures?

TRAINERS



Natasha Stojanovich
Partner,
Lander & Rogers Lawyers

16.00 WORKSHOP D: FREE FORM TIMBER CONSTRUCTION

- Info coming soon!

16.45 NETWORKING

17.00 END OF THE EVENT



3 STAGE REGISTRATION PROCESS*

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checkout. You will
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with the event
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credentials and
enter the event
to complete
your profile.

HELPLINE : info@zakgroup.com | www.zakworldoffacades.com

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