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# 4TH ANNUAL BUILDING ENVELOPES ASIA 2013

16-18 April 2013 | Singapore

**COST EFFICIENT DESIGN, ENGINEERING AND MATERIAL  
TECHNOLOGIES FOR HIGH PERFORMANCE BUILDING ENVELOPES**

## 2013 ADVISORY PANEL



**Jan Oebeles**  
Manager - Building  
Enclosure  
**DRAGAGES**



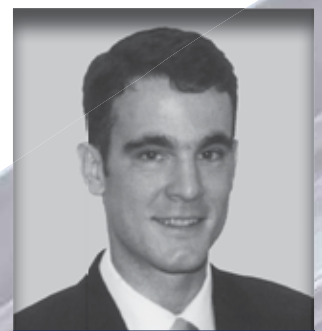
**Russell Cole**  
Principal & Building  
Group Leader  
**ARUP**



**Stefan Abidin**  
Senior Associate  
Director  
**ATKINS**



**Byoung Soo Cho**  
Principal Architect  
**BCHO Architects**



**Mathieu Meur**  
Managing Director  
**Meinhardt Façade  
Technology**

## FOR THE FIRST TIME...

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conference...*

Image courtesy of: Daniel Swarovski Corporation,  
Zurich. ingenhoven architects international, branch  
office Männedorf. Photo: A.Keller

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Dear friends and colleagues,

With every passing year, **Building Envelopes Asia** has increasingly been a platform for the regional stakeholders in the building industry.

As real estate and infrastructure development markets in the region ease out, many iconic projects with very demanding energy efficiency requirements are being developed.

Interesting envelope designs from global architectural practices are now engineered by new analytical tools and simulation techniques. Incremental costs can be managed to yield better ROI and as a result, buildings are now only aesthetic but also are efficient.

The fact that this **4th annual Building Envelopes Asia** has a good mix of architects and engineering firms presenting on new complex, high performance envelope projects is a testament to the maturing of this industry in the region.

I wish to invite you to be a part of this programme and look forward to seeing you at 4th annual Building Envelopes Asia.



Regards,

**Jason Hutchings**

Director – Architecture & Urban Design

**ATKINS**

## 5 Key Benefits of attending the 4th Annual Building Envelopes Asia conference:

- Understand efficient envelopes as a tool of ensuring ROI for developers
- Combine aesthetics, function and form in complex façade geometries
- Implement BIM for improved coordination in envelope engineering
- Updates in new materials and technologies such as nano-coated glass and light shelves
- Techniques in envelope engineering for very tall towers

## 3 Envelope Project Showcases by Leading Architects

For the first time, 3 architects are presenting their envelope design philosophy and development processes – a great opportunity to listen and compare their styles...

**A: 1 Bligh High-Rise Sydney, European Investment Bank, Luxemburg & Swarovski Headquarters, Switzerland**

- Martin Reuter, Managing Director, ingenhoven architects

**B: SETUN Hills Business Park, Moscow**

- Hadi Teherani, Principal, Hadi Teherani Architects

**C: International Financial Centre 2, Jakarta**

- Jonathan Wall, Principal, NBBJ Architects

1 Bligh, Sydney. Image courtesy of: ingenhoven architects + architectus  
Photo: H.G.Esch

# THE COMPLETE LINE UP OF EXPERT SPEAKERS



**Ir Dr Raymond Yau**  
Director and Vice-chair,  
Technical Review  
Committee  
**BEAM Society Ltd**



**Jason Hutchings**  
Director - Architecture  
& Urban Design  
**ATKINS**



**Russell Cole**  
Principal & Building  
Group Leader  
**ARUP**



**Mathieu Meur**  
Managing Director  
**MEINHARDT FAÇADE  
TECHNOLOGY**



**Michael Kokora**  
Associate  
**OMA**



**Angelene Chan**  
Director  
**DP ARCHITECTS**



**Duncan Horwill**  
Technical Associate  
**RAMBOLL**



**Lucia Lung**  
Façade Director  
**WSP SHANGHAI**



**Stefan Abidin**  
Senior Associate  
Director  
**ATKINS**



**Byoung Soo Cho**  
Principal Architect  
**BCHO Architects**



**Meeta Patel**  
Divisional Director  
**BENOY**



**Steve Daniels**  
Technical Director  
Global Façade Leader  
**AURECON**



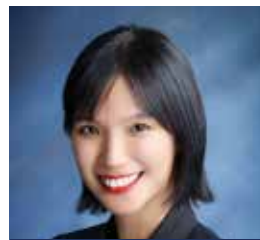
**Martin Reuter**  
Managing Director  
**ingenhoven architects**



**Mark Pniewski**  
Senior Engineer -  
Facades  
**RAMBOLL**



**Timothy Soebroto**  
Director  
**MEINHARDT FAÇADE  
TECHNOLOGY**



**Mimi Daraphet**  
Senior Façade  
Consultant  
**MEINHARDT FAÇADE  
TECHNOLOGY**



**Jan Oebeles**  
Manager - Building  
Enclosure  
**DRAGAGES**



**Nicolas Ramillon**  
Project Manager - Steel  
Structure & Building  
Enclosure  
**DRAGAGES**



**Clive Lewis**  
Associate  
**ARUP**



**Jonathan Wall**  
Principal  
**NBBJ Architects**



**Ben Morris**  
Managing Director  
**VECTOR FOILTEC**



**Russell Deane**  
Global Segment  
Manager - Architectural  
**AKZONOBEL  
POWDER COATINGS**



**Andreas Hiersemenzel**  
Engineer  
**HIERSEMENZEL &  
ASSOCIATES**



**Stephen H Rice**  
Director - Glazing  
**GLASS & GLAZING  
FEDERATION**

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of speakers and their  
richness in experience.”**

Joe Sleiman, ASEAN Area Manager, HYDRO  
BUILDING SYSTEMS



## 0900 Integrated Façade Design of High Performance Green Building - Case Studies in Hong Kong

- Establishing objectives and impact of facades of High Performance Green Building
- Developing integrated façade system in HPGB, including Passive Design Measures
- Establishing Industry Practice Guidelines on improving the Thermal Properties and Natural Ventilation Potential of Residential Buildings in Hong Kong
- Some Examples of BEAM Plus Submissions - Hysan Place, CIC Zero Carbon Building



**Ir Dr Raymond Yau,**  
Director and Vice-chair, Technical Review Committee,  
**BEAM Society Ltd.**

## 0950 Integration of high-performance and aesthetic envelope design - China Huarong Tower, Zhuhai, PRC

- Combining iconic and contextual envelope design
- Emphasising the building theme through envelope design
- Decarbonising envelope design



**Stefan Abidin,**  
Senior Associate Director, **ATKINS**



**Jason Hutchings,**  
Director - Architecture & Urban Design, **ATKINS**

## 1030 Morning Refreshments and Networking Break

## 1100 Aesthetics and functionality: is it still an architectural predicament? Case study

- How can buildings be aesthetic and functional: simple themes and simpler techniques
- Combining active and passive elements in designing efficient envelopes
- Listing out parameters to look for in efficient design process
- Creating a value process in identifying design, functional objectivity, cost and material technology



**Meeta Patel,**  
Divisional Director, **BENOY**

## 1140 Envelope Project Showcase A: 1 Bligh High-Rise Sydney, European Investment Bank Luxemburg & Swarovski Headquarters, Switzerland

- Exploring holistic approaches to energy saving design: energy efficient building layout, reduced energy consumption, air preserving and solar optimization and control
- Concepts for energy efficient facades and materials and their application to innovative architectural designs



**Martin Reuter,**  
Managing Director, **ingenhoven architects**

## 1220 Lunch and Networking Break

## 1320 Designing envelopes as environmental solutions - Kiswire R & D Centre, Malaysia

- Approaching envelopes as live and 'breathing skins'
- Achieving thermal, air and hydro insulation through envelopes
- Envelopes as a closed loop feedback system with the environment
- Can envelopes be designed for energy self sufficiency



**Byoung Soo Cho,**  
Principal, **BCHO ARCHITECTS**

## 1400 New material session - II: Nano-coated Glass, Glazing and Responsive Facades

Moderated by:  
**Stephen H Rice,**  
Director - Glazing, **GLASS & GLAZING FEDERATION**

## 1440 21st Birthday Celebrations: Superdurable Powder Coatings Come of Age

- Capabilities of superdurable powder coating technology
- Possibilities of use in facades and window systems



**Russell Deane**  
Global Segment Manager - Architectural,  
**AKZONOBEL POWDER COATINGS**

## 1510 Afternoon Refreshments and Networking Break

## 1530 Enclosure considerations for commercial tall buildings in tropical conditions: Shenzhen Stock Exchange, China

- Analysing the effect of built form, shape and orientation on design methodology
- Addressing high humidity, temperature and rainfall on envelope
- Developing bioclimatic buildings suited for tropical conditions
- Passive and self-shading devices



**Michael Kokora,**  
Associate, **OMA**

## 1610 Envelope Project Showcase: International Financial Centre 2, Jakarta



Architect: **Jonathan Wall,**  
Principal, **NBBJ Architects**

## 1650 Energy Efficiency and the Building Envelope: case studies

- Importance of building envelope while designing for energy efficiency
- Cost-effective solutions to reduce energy use by way of thermally efficient materials
- Building fabrics and achieving energy efficiency
- Condensation management and case studies



**Ryan Hitzman,**  
Export Manager - Southeast Asia, **KINGSPAN**

## 1710 Retail facades: 30 years of transformation on Orchard Road - case study: Wisma Atria and other Orchard Road projects

- Evolution of retail façade design in Singapore
- Design factors influencing facades in retail buildings
- Wisma Atria's façade design and development - the changing face of façade design



**Angelene Chan,**  
Director, **DP ARCHITECTS**

## 1750 Closing Remarks from the Chairperson

## 1800 Close of Conference Day One

**“Excellent insights into architects’ and façade contractors’ thoughts.”**

Sonesh Gulati, Director,  
NITRON AND AMITAN, India

## 0900 South Beach Development – Case Study of an Integrated Façade for a Green Building

- Level of integration required for buildings to achieve sustainability targets
- Criticality of building envelopes in achieving green building rating targets
- How the form of the façade of South Beach Development is arrived at
- Techniques and tools used to finalise the design



**Russell Cole,**  
Principal & Building Group Leader, **ARUP**

## 0930 Delivering high performance envelopes through improved stakeholder coordination

- Understanding the benefits of high performance envelopes for new developments: energy, operability and higher ROI
- Optimising resources in envelope industry
- Overcoming hurdles in addressing lack of stakeholder coordination
- Clarifying the deliverables from the building as an asset



**Mathieu Meur,**  
Managing Director, **MEINHARDT FAÇADE TECHNOLOGY**

## 1000 Facades – What could go wrong?!!

- Understand some of the things that can go wrong with major parts of the façade – glass, bracketry systems, finishes
- Learn what is important to specify to avoid these problems
- Review of some of the more ‘interesting’ aspects of façade design
- Discuss the importance of performance mock ups and professional reviews of documentation and site installation.
- Be aware of the level of quality to expect in your façade



**Steve Daniels**  
Technical Director, Global Facade Leader, **AURECON**

## 1030 Morning Refreshments and Networking Break

## 1100 How to implement a value engineering approach in envelope development process: case studies – Presidential Library, Astana & Towers, Jakarta

- Approach 1** - Using algorithms inspired by nature and advanced computational design to rationalise and engineer a predefined building geometry
- Reduce number of unique panel sizes, shapes and reduce joint complexity
  - Reduce of unique member lengths
  - Increase structural efficiency
- Approach 2** - Value engineering building envelopes by supporting the architect in developing the overall geometry of the building
- Optimise orientation for solar and thermal gain
  - Optimise envelope for peak local and overall wind loads
  - Optimise geometry for structural efficiency
  - Optimise geometry for production and manufacture



- Optimise orientation for solar and thermal gain
- Optimise envelope for peak local and overall wind loads
- Optimise geometry for structural efficiency
- Optimise geometry for production and manufacture



**Duncan Horwill,** Technical Associate, **RAMBOLL**  
**Mark Pniewski,** Senior Engineer – Facades, **RAMBOLL**

## 1130 China Architectural Glass session

## 1200 Lunch and Networking Break

### Special Focus - Singapore Sports Hub

## 1300 Session A: Delivering the envelope design of Singapore's new national stadium through integrated architecture & engineering

- Details of structural engineering
- Design of moving systems
- Addressing environmental concerns
- Developing specialist façade and identifying suitable materials



**Clive Lewis,** Associate, **ARUP**

## 1330 Session B: Delivering the envelope of Singapore's New National Stadium on-site

- Key aspects and challenges of the delivery of the National Stadium steel structure and envelope on site
- Role and value of the main-contractor in the coordination between the specialist subcontractors and consultants
- 2 practical applications: Unitized aluminum roof system and ETFE long cushions



**Nicolas Ramillon,**  
Project Manager - Steel Structure & Building Enclosure, **DRAGAGES**

## 1400 Designing sustainable, world-class envelope structures for the leisure industry: case studies

- What are the rule changing developments including variable light transmission, controlling solar gain and UV
- Use of specialty coatings, printing and artificial cloud formation
- Enhancing plant growth
- Creating interactive specialist lighting effects, colouring, patterning and fully pixelated LED graphic display to create bespoke venues/marketing opportunities.



**Ben Morris**  
Managing Director, **VECTOR FOILTEC**

## 1430 Afternoon Refreshments and Networking Break

## 1500 Ensuring increased seismic and structural stability in façade engineering: case study

- How can envelopes for tall towers be affected due to seismic activity and how to address structural damages
- Developing structural rigidity for façade components
- Incorporating envelopes with flexibility to withstand seismic movement
- Uncompromising water/air tightness while developing seismically stable building enclosures

**Andreas Hiersemenzel,**  
Engineer, **HIERSEMENZEL & ASSOCIATES**

## 1530 Coupling complex geometries and efficient envelopes: effect of new envelope material technologies and fabrication techniques – case studies

- Combining new envelope materials efficiently for achieving complex geometries
- New installation systems and techniques aiding the complex envelope construction
- Ensuring air/water tightness in creating complex envelope geometries: addressing the challenges
- Techniques to enhance energy and cost efficiency



**Timothy Soebroto,**  
Director, **MEINHARDT FAÇADE TECHNOLOGY**



**Mimi Daraphet,**  
Senior Façade Consultant, **MEINHARDT FAÇADE TECHNOLOGY**

## 1600 Current techniques in envelope engineering and fabrication for air and water tightness: Mingying International Trade Centre, China

- New materials and installation procedures for increased air/water tightness
- Considering ease of access and maintenance while ensuring air/water tightness
- How to achieve air/water tightness with minimal construction joints



**Lucia Lung,**  
Façade Director, **WSP SHANGHAI**

## 1630 Closing Remarks from the Chairperson

## 1640 Close of Conference Day Two

**Workshop A:** 0900 – 1130 (Includes refreshment break)

## Interdisciplinary coordination of facade design requirements during design development

Lack of coordination in the design development process for complex facade projects usually lead to costly delays and project overruns. This workshop will explore methods to address these issues and seek to collectively determine the KPI's for a successful outcome.

Delegates are requested to submit and present examples of complex facade systems, both with and without the use of BIM or parametric modeling.

### Key Learning:

- Exploration of innovative tools and means of information exchange between stakeholders
- How can parametric modeling and application of BIM be incorporated across disciplines
- How can procurement of building envelopes benefit from digital information exchange



Led by:  
**Jason Hutchings,**  
Director – Architecture & Urban Design,  
**ATKINS**

Jason has 26 years experience in the Architectural profession of which 18 years have been in SE Asia working in design studios such as Arup Associates, Rocco Design, Aedas, RMJM and Atkins. Through projects like the Landmark Mandarin (Hongkong Land) and Hong Kong Station (MTR), Jason has brought practical on-site experience into the design of subsequent mega-projects like the 1-million sqm Sands Casino, Macau (Parcel 7&8), Admiralty Station and Abu Dhabi Cultural District.

Jason has been responsible for projects in Europe, the Middle East and throughout the Asia Pacific region.

**“The event provides me updated information on what is happening in the construction industry as well as on the new trends in designing of building envelopes.”**

Ronaldo Mesina, Design Associate,  
UNITED ARCHITECTS, PHILIPPINES

**Workshop B:** 1200 – 1500 (Includes Lunch break)

## Ensuring constructability in developing complex envelope geometries: simpler and adaptable tools

Realising architectural design into a constructable form seems to be a challenging task. As an envelope engineer, factors such as involving in the design process, understanding the engineering process, knowledge of materials and adapting analytical techniques will be key to successful delivery of complex envelopes.

This workshop will explain the steps involved in ensuring the engineering constructability of complex envelopes that are aesthetic, cost efficient and energy conserving.

### Key Learning:

- What are the usual pitfalls in assessing engineering constructability in a complex envelope?
- Techniques and tools in constructability analysis for complex envelopes
- How to ensure early coordination of stakeholders in envelope design, development and delivery?



Led by:  
**Duncan Horswill,**  
Technical Associate,  
**RAMBOLL**



**Mark Pniewski**  
Senior Engineer – Facades,  
**RAMBOLL**

**Duncan's** strengths are in the conceptualisation and design of complex structures from whole buildings to individual structural elements. He believes strongly that the success of a project depends on collaboration during the conceptual stages of the design with all parties. This approach is underpinned by an appreciation of the architect's aspirations as well as the requirements of other designers to develop solutions which maximise value for the client.

Duncan is also a keen advocate of the use of technology and innovation and has employed a range of new initiatives on his projects including parametric modelling, optimisation algorithms and digital fabrication techniques. In certain instances he has worked with various non-standard building materials such as carbon fibre and Perspex to achieve the required solution.

**Mark's** ability to apply and clearly communicate his knowledge of engineering principles with concept sketches is complimented by his competence in digital 3D visualization techniques and advanced analysis software.

Mark brings strong structural engineering skills to the team, coupled with a deep appreciation for aesthetics and extensive multi-discipline project management experience.

**SITE VISIT:** 1600 - 1800

## Delivering Large Scale Energy Efficient Building Enclosures for Singapore Sports Hub

Functionally, this state-of-the-art venue provides a flexible and multi-functional world-class sports facility for international athletics, football, cricket, rugby and major spectacular events, including the National Day Parade. Enabling this versatility is the integration of retractable seating, allowing reconfiguration of the stadium's bowl to provide appropriate sightlines and viewing distances for various sports and non-sporting events.

### Key learning

- Information and statistics of the project's enclosure, its stakeholders and key challenges in delivering the building enclosure
- Key technical issues in relation to steel structure and building envelope
- Overview of the methods of construction for the national stadium steel roof (312 m. span dome, one of the largest in the world) and its aluminum roof covering standing seam system

The facilities' roofs have also been designed to ensure an excellent standard of daylight, natural ventilation and overall quality of environment.



Led by:  
**Nicolas RAMILLON,**  
Project Manager – Steel Structure & Building Enclosure,  
**DRAGAGES**



**Jan Oebeles,**  
Roof Covering Package Manager,  
**DRAGAGES**



*Delegates will be taken around the actual construction site where roofs and facades are being fabricated and erected – on-site and briefed on how fabrication and construction are carried out at one of the world's largest sports arena.*

# SPONSORSHIP OPPORTUNITIES

## Why do the delegates need you?

Delegates attend this event to understand how they can achieve higher building performance and comply with sustainability regulations. They are looking for products and services which will help plan, design and engineer efficient and commercial building developments.

## Why do you need to be there?

Conference delegates are qualified, senior level decision makers with proven budget control. You'll be meeting and doing business with leaders from the building envelopes industry that have chosen to invest their money and time in addressing the specific challenges listed in the agenda.

Our delegates come looking for solutions, and sponsoring puts you on a platform to demonstrate your expertise and win their business. By aligning yourself with the experts speaking on the conference agenda you will be able to demonstrate how your solutions overcome the obstacles faced by your clients. You'll be able to explain how you deliver cost-effective, high-efficiency building products and services that will make a real impact on their budgetary, scheduling and sustainability constraints, enabling them to provide energy-efficient buildings in their respective countries.

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A limited number of sponsorship opportunities are available, ensuring delegates meet with only the most relevant suppliers and experts in the building envelopes industry. Get in touch today to explore the partnership opportunities you can use to position your products and services at the **4th annual Building Envelopes Asia 2013.**

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# 4TH ANNUAL BUILDING ENVELOPES ASIA 2013

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### DATA PROTECTION:

Personal data is gathered in accordance with the Data Protection Act 1984. Your data may be passed to other companies who wish to communicate with you offers related to your business activities. If you do not wish to receive these offers, please tick the box below.

Please do not pass my information to any third party.

### PAYMENT TERMS

Registrations/orders received without immediate payment or credit card details will incur a processing fee of SGD99 per registration/order. Payment is due in full upon receipt of invoice. Full payment prior to the event is mandatory for attendance.

**IQPC WORLDWIDE PTE. LTD.**  
Company Registration No: 199702288Z

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