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N O R T H E R N E X P O S U R E

25.6.2019

OTANIEMI

GPD WITH AALTO UNIVERSITY

PROGRAM

- 08.45 OPENING WELCOME**
Peter Smithson, Founder/Consultant
BG&E Facades, Australia and
Kimmo Lintula, Aalto University/K2S
- SESSION 1: FROM CONTEXT TO CONCEPT**
- 08.55** Keith Boswell, SOM ARCHITECTS
Synergies with Buildings,
Cities and Placemaking
- 09.30** Pekka Helin, HELIN & CO ARCHITECTS
Case Study Kalasatama
- 10.05** Professor, Co-Founder Rainer Mahlamäki
LAHDELMA & MAHLAMAKI ARCHITECTS
Case Study Pasila
- 10.40** Tim Leslie, BATES SMART ARCHITECTS
High-Rise Facades Today - An Architect's
Design Review with Case Studies - 171 Collins
St. Melbourne & Cold-Climate
New Australian Embassy, Washington, USA
- 11.05** Coffee Break
- 11.35** Mr. Stephen Selkowitz,
LAWRENCE BERKELEY NATIONAL LABORATORY
Smart Glass Performance - An Update on
Monitored Results from Occupied Buildings
and Testbeds.
- 12.00** Stefan Goeddertz, HERZOG & DE MEURON
Elbphilharmonie Hamburg
- Glass Appearances
- Expressions of a Material
- 12.35** Lunch Break
- SESSION 2: PERFORMING DETAILS**
- 13.35** Andreas Hiersemenzel,
HS&A FACADE CONSULTANTS
Trends in Façade Design and Construction
- 14.00** Peter Smithson Architect, BG&E FACADES
High-Rise Facades - Managing Risks
for Architects and Avoiding Technical Issues
- 14.25** Oliver Ng & Grant Hall,
BG&E & LIVE SENSE SUSTAINABILITY,
Façade Performance - Real Time Sensor-Based
Data Collection
- 14.50** Coffee Break

- 15.20** Dr.-Ing. Werner Jager,
HYDRO BUILDING SYSTEMS
- City of the Future
- 15.40** Mr. Michael Elstner, Head of Technical Advisory
Service & Strategic Communication AGC
INTERPANE
Coating on Demand
- 15.55** Mr. Timo Saukko, CEO, FINNGLASS
Electrically heatable glass: improving well-
being with heatable glass, savings from building
costs, utilizing floor space
- 16.05** Wrap up
- 16.35** CLOSE & Bus transportation to Tampere



SCHÜCO



SWECO

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Register at:

<https://www.gii.fi/high-rise-2019/>

PRESENTERS OF THE EVENT

ANDREAS HIERSEMENZEL

Dipl. In, Partner at
HS&A Ltd Façade Consultants
www.hsfacade.com



Andreas's professional career has been in Facades on both design, management, building the essential infrastructure. Well known buildings where he was involved are his first project in facade Lloyds of London on to 4 Buildings for Bank of China, Jin Mao in Shanghai and Taipei 101.

Since 2005 he is offering façade and BMU design services to clients and architects. One issue he is called in frequently is building forensics. This work is offered regionally in Asia through the Mid East.

KEITH BOSWELL

FAIA, Technical Partner
SOM
www.som.com/



C. Keith Boswell, FAIA, Technical Partner for SOM's West Coast offices, orchestrates and oversees detailed design and construction documentation for all West Coast projects. Since joining SOM in 1981, he has worked on high-rise office buildings, government facilities, residential and mixed-use complexes, and international and domestic airport passenger terminals.

Keith is a specialist in designing and executing technically complex building systems, such as exterior enclosures, curtain walls, elevator and vertical transportation systems, and special construction. He is actively engaged in the research and application of materials and systems for use in SOM designs. He is the author of the book, *Exterior Building Enclosures: Design Process and Composition for Innovative Facades*, which was published June 2013 and addresses the design and execution of sophisticated exterior envelopes.

H I G H R I S E

N O R T H E R N E X P O S U R E

RAINER MAHLAMÄKI

Professor, Architect
Lahdelma&Mahlamäki Architects
<https://lma.fi/>



Rainer Mahlamäki's representative designs are a product of his belief in the importance of understanding each commission's backstory. He strives to understand the people he designs for, the landscape he is altering, and the history he is representing.

Rainer has been ever-present within Finland's education and architecture institutions. Currently Dean of the Oulu School of Architecture, he chaired the Board of the Museum of Finnish Architecture from 2002 to 2006, and was President of SAFA from 2007 to 2011.

Aside from his projects, Rainer frequently acts as a juror for high-profile international architecture competitions. His pioneering international achievements were recognised in 2017 when he was awarded the prestigious Prince Eugen Medal by the King of Sweden. Rainer founded Lahdelma & Mahlamäki Architects together with Ilmari Lahdelma in 1997. Their architectural collaborations began well before this, with the founding of the architecture collective 8 Studio in 1986, and Kaira-Lahdelma- Mahlamäki Architecture office in 1992.

PEKKA HELIN

Architect, Founder and Chairman
HELIN & CO ARCHITECTS
<https://helinco.fi/>



Pekka Helin has produced a wide variety of projects of all scales including architectural and urban planning, interior, industrial, graphic and visual design.

Helin & Co Architects has steered projects through complex processes of rigorous review and public scrutiny guiding effectively projects to successful conclusions. He has won 40 first prizes in domestic and international architectural competitions. For his architectural practice he has been nominated 33 awards in Finland and abroad.

During his career he has given several lectures at universities, conferences and associations of architecture in Europe, America and Asia. His works have been shown in touring exhibitions and international publications.

MICHAEL ELSTNER

Head of Technical Advisory Service & Strategic Communication
AGC Interpane Germany
<https://www.interpane.com/>



Michael Elstner is a technical engineer for glass constructions and master glazier and an officially appointed and sworn expert for the glazing trade/glass in buildings. He has been working in the glass business since finishing his education as a glazier in 1994.

He is Head of the Technical Advisory Service the strategic communication for AGC Interpane. He is also member of different national and international associations and standard committees, such as the executive board of the Federal Flat Glass Association and Member of the Board of Directors Multi-Pane Insulating Glass Quality Association, and he is also a member of working groups which are dealing with the application of glass.

OLIVER NG

Director,
BG&E Facades
www.bgeeng.com



Over the last 25 years, Oliver has been involved in the management and design of facades, from concept to inception. Being trained as an Architect, his focus is in design of façade and façade systems. This includes schematic design ideas, system detailed development, façade prototype testing and implementation process. Currently he is working on the assessment of cladding on buildings and recladding where they are non-compliant.

As the head of the facades group, he is still hands on and heavily involved in testing, research and fabrication of facades. He has had extensive experience in the Middle East, Asia and Australia. Some notable projects include the A\$3 Billion New Royal Adelaide Hospital, the ITCC in Riyadh and the Australian award winning 35 Spring St by Bates Smart Architects.

Oliver has also worked with many notable international architect firms such as Norman Foster, Grimshaw, Cesar Pelli, RTKL and WATG which has given him an insight into current ideas and updated technologies of other parts of the world.

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PETER SMITHSON

Founder,
BG&E Facades
www.bgeeng.com



As the founder of BG&E Facades, Peter holds a degree in Architecture from the University of Melbourne and graduated with major studies in Materials Science undertaken external to the faculty. Peter subsequently lectured in Materials Science and has been an examiner for the Architects Registration Board of Victoria.

Peter has been a registered Architect for more than thirty-five years. Over this period he has specialised in high rise facade design from concept to detailed design, chemical interactions between various metals comprising glazing systems and the forensic investigation of various construction and transport Materials Science matters.

STEFAN GOEDDERTZ

Associate,
Herzog & de Meuron
<https://www.herzogdemeuron.com>



Stefan Goeddertz began his collaboration with Herzog & de Meuron in 2006. In 2008 he became an Associate of the firm. His focus is the building envelope. Among other projects, Stefan finished the building envelope of the Elbphilharmonie Hamburg, Germany; currently in charge of the building envelopes of M+, Hong Kong and Triangle, Paris, France.

Stefan studied at the Academy of Beaux arts, Nuernberg, Germany from 1991 to 1995, graduating with a Diplom Ingenieur. Between 1996 - 2006 he collaborated with Schneider + Schumacher, Frankfurt; Erik van Egeraat Architects, Rotterdam; Dominique Perrault Architecte, Paris; and Burckhardt & Partner, Zurich. He has developed and built various projects in Germany, Switzerland, Austria, France, Spain, Netherlands, Russia, Hong Kong and South Korea.

TIM LESLIE

Studio Director
Bates Smart
<https://www.batesmart.com/>



Tim Leslie is a Studio Director at Bates Smart architects, a fellow of the Australian Institute of Architects and the founding and current President of Open House Melbourne. He is passionate about the importance that architecture plays in creating successful cities and is a keen advocate in promoting the profession to the public.

He has a particular interest in the poetics of light and the importance that light plays in creating memorable architectural experiences.

STEPHEN SELKOWITZ

Affiliate,
Lawrence Berkeley National Laboratory
Lecturer, UC Berkeley
Department of Architecture
<https://www.lbl.gov/>



Selkowitz is recently retired as Senior Advisor for Building Science, LBNL and is now a consultant and advisor to global building industry clients. He is an internationally recognised expert on sustainable design and high performance green buildings serving as an advisor to government and R&D teams in Europe and Asia, and an expert on advanced glazing and window technologies, façade systems, daylighting designs and integrated building solutions.

He is currently teaching a graduate seminar at UC Berkeley Department of Architecture on Adaptive Facades. Over his 40-year career at LBNL, he started and led the Windows and Daylighting Group and served as Head of the Building Technologies Department for 25 years, partnering with industry to develop and demonstrate new technologies, systems, processes and design tools that address energy, sustainability and occupant comfort.

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TIMO SAUKKO

CEO

Finnglass

<http://www.finnglass.com/>



Timo Saukko, who currently works as CEO of Finnglass in Finland, has more than 10 years of experience from glass industry. After 10 years of work in various positions, from international business to product and sales management at Saint-Gobain and Finnglass, he started as MBO, owner and CEO of Finnglass in 2017.

During his years at glass industry, he has specialized in electrically heated glass, its applications and technology. Timo has worked in many challenging international projects with the leading facade contractors. In Finland he has successfully participated in combining the innovative use of heated glass to international traveling business by developing the arctic resorts build of electrically heated glass.

From the academic viewpoint, Timo has a strong technical and theoretical background. He graduated from Helsinki University of Technology in 2006, and during the years in business he has published several technical articles in glass journals. He is also an active speaker, attending yearly in different conferences all over the world.

WERNER JAGER

Dr.-Ing.

Hydro Building Systems

<https://www.hydroextrusions.com/en-GB/>



Werner has a doctorate and engineering degree from the University of Munich, and has spent more than 20 years focusing on the engineering and design of building envelopes. In addition to his commercial background, Werner was a professor of building physics at the University of Applied Sciences in Augsburg, Germany and supported the FRAUNHOFER Society of Building Physics in R&D projects.

He is the technical marketing director of HYDRO Building SYSTEMS for the regions DE, At, CH, CSEE, Cz and SK. Being responsible for the architects consultants, Software sales, technical design, quality assurance, communication and marketing.



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