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Invitation to High Rise workshop

June 23th 2015, Helsinki, Finland – Prior to the GPD Conference

# Schedule and Course

Presented by: Dr. Leon Jacob and Mr. Peter Smithson from Australia, Mr. Charles Blomberg from USA and Mr. Keith Boswell from SOM, San Francisco USA.

Morning session – 2 hours

**Dr. Leon Jacob** - 1 hour

* Introduction to high rise design
* Historic overview – Development of curtain wall systems
* Types of glass facades

**Mr. Charles Blomberg and Mr. Keith Boswell** – 1 hour

* High Rise design considerations - Building Typology, Useable floor area and support “core” floor areas by typology,
* Structural considerations, Vertical circulation (elevators), Life safety systems, Building services (mechanical/electrical/plumbing/etc.),
* Energy efficiency & Public spaces

Pre-lunch session – 1 hour

**Mr. Peter Smithson** - 45 minutes

* Loading - External and internal Loading – wind, air and water penetration,
* Energy efficiency - Natural daylight vs solar heat gain.
* Fire resistance and acoustics
* Performance criteria – air infiltration, acoustics, daylight, energy criteria

**Dr. Leon Jacob** – 15 minutes

* Specifications – Architectural

After lunch session – 1 hour

**Mr. Keith Boswell & Mr. Charles Blomberg**

* Delivery Methods
* Impact of wind pressure on Operable windows
* Sequencing
* Constructability

Finnish Building and regulatory Authority – 0.5 hours –

**Dan Mollgren** – Helsinki high-rise architectural competition, head of project

[www.helsinkihighrise.fi](http://www.helsinkihighrise.fi)

Tero Tenhunen - City of Tampere

* Introduction to local project in Finland.

Final session – 2 hour

**Waagner biro Thomas Henriksen –** 30 minutes

Case study: ***‘Maersk, Panum building in Copenhagen’***

* WB has designed and are currently building a high performance adaptive facade for the Maersk building. The building is to a large extend copper clad.
* The required energy performance of the facade is 0.63 (W/m2 K) of the whole curtain wall, all the glass has a centre pane u-value 0.5 (W/m2 K), Lt 0.69 and G-value 0.47. On the project we have flat glass, single curved glass convex and concave, and J panels.

**Discussions and Case studies** – 1.0 hour

Chaired by Dr. Leon Jacob with speakers - Blomberg, Boswell, & Smithson

* Successful designs applications
* Examples of real problems buildings

# How to sign in

When participating only to the workshop: **Registration** at [www.gii.fi](http://www.gii.fi)

The price is EUR 150 + 24% VAT per workshop.

When participating to the GPD Conference, the price is: EUR 1250 + 24% VAT + EUR 150 per workshop. **Registration** at [www.gpd.fi](http://www.gpd.fi).

# Contact information

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# Glass Innovation Institute

The Glass Innovation Institute (GII) is an independent organization not associated with glass or glass-equipment manufacturers. It is the first organization aiming at bringing together experts from around the world to create and share a body of knowledge about the whole value chain of glass in innovative construction/building solutions.

GII is a new organization aiming to build a platform for clear communication among all players and designers in the entire glass industry and supply chain. Creating a balanced ecosystem would require your material and financial support. For more information please visit our website or contact Mr. Jorma Vitkala.