



INITIATIVE SEMINAR:

NOVEMBER 28-29, 2011

DESIGN- OCH KONSTRUKTIONSDAGEN 2011



The Olympic Stadium - London

Computational Design

Towards a responsible architecture and engineering

The tools for architecture and engineering are developing rapidly and the cooperation between architects and engineers becomes integrated. With arenas for the Olympic games in London 2012 and the planning of the Olympic games in Rio de Janeiro 2016 as examples, the seminar shows the role and importance of the computer tools, particularly for early design stages. At the seminar you can listen to some of the world's leading architects and structural engineers within the field.

The first afternoon of the seminar consists of **the Structural Design Day (Design- och Konstruktionsdagen)**. Here, Conceptual Design is introduced, inspiration is given and possibilities are shown through large ongoing projects. The second day of the seminar gives deepening and, in dialogue with representatives from Chalmers and institutions and industry of the region, development and possibilities for the future are discussed.

November 28-29, 2011 in Runan, Chalmersplatsen 1, Gothenburg, Sweden

Register to one or two days (no participation fee) latest on November 18, 2011: www.chalmers.se/built-environment

Programme

Monday - November 28

DESIGN-OCH KONSTRUKTIONSDAGEN 2011

Moderator Morten Lund

- 12.30 Registration
- 13.00 Welcome, introduction
Mario Plos, Coordinator
John Holmberg, Vice President Chalmers
- 13.15 **Performing design – stuff and deeds**
Lars Hesselgren, PLP Architecture
John Parrish, AECOM
- 14.05 **Refining design – from soft curves to sharp edges**
Jens Hoffman
Francis Aish
Fosters & Partners
- 15.00 Coffee
- 15.30 **Responsible design – minimal structures and green landscapes**
Matthew Birchall (The Olympic Stadium)
Shirkant Sharma
Buro Happold
- 16.30 **Concluding discussion**
Morten Lund leads a discussion with invited speakers and academy.
- 17.00 Mingle buffet.

Tuesday - November 29

Moderator Morten Lund

- 8.30 Registration, coffee
- 9.00 Welcome, introduction
Mario Plos, Coordinator
Nina Ryd, Area of Advance Leader, Built Environment, Chalmers
- 9.10 **Clusters of excellence**
Karin Markides, President Chalmers
Monica von Schmalensee, CEO White Architects
- 9.40 **Optimized design – structure and shape**
Andrew Weir (The Olympic Velodrome)
Expedition Engineering
Chris Williams
University of Bath
- 10.30 **Collaborative design – architect and engineer**
Michael Hensel
Björn Sandaker
AHO Oslo
- 11.40 Lunch
- 13.00 **Computational design – tools and approaches**
Rikard Söderberg,
Product and Production Development, Chalmers
Monica Billger, Center of Visualization, Gothenburg
Jan Bosch, Software Engineering, Chalmers
- 14.00 Coffee
- 14.15 **A responsible design - a digital context**
Pecha kucha presentations –
20 slides 20 seconds each.
A concluding panel discussion with
representatives from industry and academy.
- 16.00 After Work at Lindholmen.
Presentation of the building Kuggen.

Chalmers' Initiative Seminars are a series of seminars highlighting exciting intersections between scientific disciplines, subject areas and the external world. The seminars are a venue where unexpected encounters take place and new ideas emerge.

The yearly Structural Design Day intends to stimulate architects and engineers to form together the structures of the future. By gathering the world's prime representatives for a certain area to Chalmers we want to stimulate the progress of the competence in Sweden, the Gothenburg region and at Chalmers. With good examples we want to show how the arts of architecture and engineering can be joined to create a sustainable built environment and high-class structures.

Organizers:

Chalmers' Area of Advance Built Environment
Structural Engineering Centre
SVR Väst
Sveriges Arkitekter, Västra Götaland
Brosamverkan Väst
