

# Nordic Steel 2012

## ECCS/TC 14 Sustainable Workshop

September 6, 2012, Oslo Norway



Detailed Programme

### ECCS / TC 14 PROGRAMME - WEDNESDAY SEPTEMBER 5

19:30 WELCOME RECEPTION (OSLO CITY HALL) Fabian Stang, Major of Oslo

### ECCS / TC 14 PROGRAMME - THURSDAY SEPTEMBER 6

08:30 REGISTRATION

#### HAAKON HALL

#### KEY NOTE SPEAKERS

Chairman Prof. Luis Simões da Silva

09:20 Cold Formed High Strength Tubes for Structural Applications Pekka Ritakallio, Director, Ruukki Tubular Products

09:40 Engineers in a Sustainable Word Professor David A. Nethercot - Imperial College London

#### CONFERENCE CENTER

#### SESSION 4: SUSTAINABLE ENGINEERING

Chairman Prof. Milan Veljkovic

10:00 System Boundaries in Life Cycle Assessment John Dowling

10:15 Steel Energy Pile - Smart Way To Utilize Geothermal Energy Jyrki Kesti, Veli-Matti Uotinen and Hannu Vesamäki

10:30 Life Cycle Analysis for Sustainability Assessment of Steel and Composite Bridges Marjolaine Pfaffinger, Martin Mensinger and Tabea Beck

10:45 COFFEE

11:15 Galvanizing and Sustainable Construction Annikki Hirn and Murray Cook

11:30 Sustainable Design of Steel Structures with Highstrength steels Richard Stroetmann

11:45 Single-Storey Commercial Buildings on the Way to Zero-Energy Requirements Jyrki Kesti and Petteri Lautso

12:00 Environmental Advantages of Using Advanced High strength Steel in Steel Constructions Jan-Olof Sperle

12:15 Optimization of Sustainable Office Buildings in Steel Using Genetic Algorithms Martin Mensinger, Li Huang, Phoenix Zhang, Heidrun Hogger

12:30 LUNCH

#### CONFERENCE CENTER

### ECCS/TC14 SUSTAINABLE WORKSHOP

13:30 Opening Luis Bragança and Heli Koukkari

13:30 Web-Based Database of EPDs on ECCS´ New Website Luis Bragança

13:50 ECCS iApp with Environmental Impact Data of Steel Profiles Luis Simões da Silva

14.10 Opportunities and Obstacles in Reusing Components in Construction Sector Ludovic Fulop, Petr Hradil and Asko Talja

14:30 Target Zero Project, UK John Dowling

15:00 Coffee

15:30 The NASTA - Project on Sustainability in Steel Construction - Overview and Selected Results Markus Feldmann

16:00 Sustainable Office Buildings - Additional Aspects Martin Mensinger

16:20 Single storey steel building design optimisation through lifecycle thinking and automated design Ross McKinstry and James Lim

16:40 Steel Construction In Sustainability Rating Systems Joana Andrade and Luis Bragança

17:00 Discussion All

18:00 CONCLUSIONS AND CLOSURE Luis Bragança and Heli Koukkari

REGISTRATION at the Nordic Steel Conference website: [http://kp.no/en/Nordic\\_Steel/workshop/](http://kp.no/en/Nordic_Steel/workshop/)

TC14 members fee for the 6th of September = 120 Euros.

Include: full participation in the Conference Sustainable Session (morning) + Lunch + TC14 Workshop (afternoon)

Conference Gala Dinner = 100 Euros

All the participants in the TC14 Workshop are invited to participate for free in the Welcome Reception party (Oslo City Hall) on the 5<sup>th</sup> of September