**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 1App 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


**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 5th of September

**ECCS Technical Committee 14** aims to promote the developments in industry, in research and teaching communities that lead toward increased understanding and capabilities in relation to sustainable steel construction.