Workshop – Topic
Retrofitting of lighting solutions in non-residential buildings

Date
Monday, 28 September 2015, 8.30-13:30 (lunch 12:45-13:30)

Location
FINATEC - Campus Universitário Darcy Ribeiro, Av. L3 Norte, Ed. Finatec – Asa Norte, Brasília – DF, Brazil

Registration
Participation fee: 20 € (70 reais), 10 € (35 reais) for students including lunch and coffee (no extra fee for Task 50 meeting participants)
Mandatory Registration
The registration is open until 18 September 2015
Limitation of participants: 80
Cancellation policy: Fees will be returned to the participant if cancellation is made before 18 September 2015. For later cancellations, the full fees will be charged to the participant.

Information
Additional information on Task 50 and the workshop can be found under:
http://task50.iea-shc.org/
The access route to FINATEC can be found here:
http://www.finatec.org.br/site/en/aboutus/

Organization
Cláudia Naves David Amorim
clamorim@unb.br
Faculty of Architecture and Urbanistics, FAU-UnB
Campus Universitário Darcy Ribeiro, ICC Ala Norte, Asa Norte
70.910-900 Brasília, Brazil
Supported by Fundação de Apoio à Pesquisa do Distrito Federal (FAP-DF)
Lighting accounts for approx. 19% (~3000 TWh) of the global electric energy consumption. Without essential changes in policies, markets and practical implementations it is expected to continuously grow despite significant and rapid technical improvements like solid-state lighting, new façade and light management techniques.

With a small volume of new buildings, major lighting energy savings can only be realized by retrofitting the existing building stock. Many countries face the same situation: About 75% of the lighting installations are considered to be out of date (older than 25 years). Compared to existing installations, the majority of new solutions allow a significant increase in efficiency – easily by a factor of three or more – going along with highly interesting payback times. However, lighting refurbishments are still lagging behind compared to what is economically and technically possible and feasible.

Task 50 targets building owners (investors), authorities, industry and consultants by providing strategic, technical and economic information and by supporting stakeholders overcome barriers in retrofitting lighting installations. The overall objective of this Task is thus to accelerate retrofitting of daylighting and electric lighting solutions in the non-domestic sector using cost-effective, best practice approaches, which can be used on a wide range of typical existing buildings.

The scope of Task 50 is on general lighting systems for indoor environments. The focus is on lighting appliances in non-domestic buildings. Technically, Task 50 addresses daylight utilization through better façade/roof technologies and architectural solutions, electric lighting schemes as well as lighting control systems and strategies.

Objectives of the workshop

- Task experts will inform about general lighting retrofit issues and possible solutions
- General experience exchange between industry and research
- Obtain feedback from industry and learn about practitioners’ needs, for successful continuation of the work within IEA SHC Task 50

Agenda

8:30-8:40 Welcome and coffee
8:40-8:50 Advanced lighting solutions for retrofitting buildings: Introducing IEA SHC Task 50
   Jan de Boer, Fraunhofer IBP, Germany
8:50-9:10 Energy saving politics for lighting retrofits in Brazil (Ministry of Energy)
9:10-9:30 Subtask A: Market and Policies - Highlights and results
   Marc Fontoymont, Danish Building Research Institute (SBi), Denmark
9:30-9:50 Glazing in renovated buildings in Brazil CEBRACE
9:50-10:10 Subtask B: Daylighting and Electric Lighting Solutions - Highlights and results
   Martine Knoop, Technische Universität Berlin; Germany
10:10-10:25 Coffee break
10:25-10:45 Experience from renovation and new efficient projects in Brazil
   Roberta Vieira, UFMG
10:45-11:05 Subtask C: Methods and Tools - Highlights and results
   Jérôme Kaempf, kaemco LLC, Switzerland and Bernard Paule, Estia SA, Switzerland
11:05-11:25 Retrofitting artificial lighting systems in non residential buildings
   Plinio Godoy, GODOY Luminotecnica
11:25-11:45 Subtask D: Case Studies - Highlights and results
   Marie-Claude Dubois, Lund University, Sweden
   Roman Jakobiak, Daylighting.de, Germany
11:45-12:05 Artificial lighting retrofit in Brazil PHILIPS
12:05-12:25 IEA Task 50 Lighting Retrofit Adviser
   Simon, Wössner, Fraunhofer IBP, Germany
12:45-13:30 Lunch