

# Lighting Design & Smart Buildings

September 13, 2012, Bucharest

A full-day course explaining the principles of lighting design and the integration with Building Management Systems to create high-performance green buildings. This course will also include a detailed view of the case study 'Automation of Lighting' by the Technical University of Bremen.

## Course details:

1. Introduction: lighting between functionality and emotion
2. Lighting basics (units, measurements and standards)
3. Lamps
4. LED: tales or facts?
5. Lighting systems
6. Daylight and light pipes
7. Dialux - European lighting software
8. EN 15193 - Lighting ENergy Index LENI
9. Enviromental Product Declaration for Luminaires
10. Lighting control systems
11. Case studies

This course is required course for those seeking the "Romania Green Building Professional" certification.

## Location

RoGBC office, Str Ialomicioarei, no. 21, district 1, Bucharest

Map is available [here](#)

## Agenda

9:00 am | Coffee and registration

9:30 am – 5:45 pm | Training \*

\* Lunch and Coffee Breaks will be provided.

## The prices for attending this course

- RoGBC member | individual - 125 Euro
- Non-member | individual - 195 Euro

# Trainers Profile

## Lighting Design & Smart Buildings

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### Dorin Beu

Ph.D. Dr. B.Eng. | Reader at the Technical University of Cluj-Napoca | managing director of B-Lighting SRL | manager of the lighting engineering laboratory at the Technical University of Cluj-Napoca

Dr. Beu hold a doctorate degree in Building Engineering from the Technical University of Cluj-Napoca, earned his Ph.D. in 'daylight offices' and won research grants from the University of Liverpool, CSTB Grenoble, University of Barcelona and Helsinki University of Technology, where he worked European research projects concerning daylighting, lighting pipes and glazing systems.

Dr. Beu is the chairman of the Romanian Lighting Convention Bucharest 2011 and lectures at the Technical University of Cluj-Napoca and manages the university's lighting engineering laboratory. He has participated in several European energy efficiency programs, most recently the 'European Efficient Residential Lighting Initiative' (ENRLIN).

Dr. Beu was the lighting and electrical design coordinator for 36 major building projects including the Worldbank/Bucharest, Radiohall/Bucharest, Polus Mall/Cluj, Philharmonic/Cluj and Sigma Towers/Cluj.

Dr. Beu is the editor of the Romanian lighting publication 'Ingineria Iluminatului'. First author of 'Tehnică iluminatului în spații industriale, birouri și locuințe' published by Mediamira/Cluj-Napoca, 2001. He co-authored several books including 'Ghid de proiectare a instalațiilor electrice de joasă tensiune' (UTC-N, 1995), 'Managementul instalațiilor de iluminat' (Mediamira, 1998) and with Dr. Liisa Halonen the second volume of an interior lighting guide 'Ghidul Centrului de Ingineria Iluminatului' (Mediamira, 2000).

His recent activities include acting Director of the 'Division 3 Interior Lighting' from Romania National Lighting Committee and directing the Romanian Green Building Council Transylvania Chapter.

### Rafael Marculescu

BA in Fine Mechanics | Professional Degree in Business Management | KNX Solution Manager at Schneider Electric/Romania

Mr. Marculescu holds a BA in Fine Mechanics from the University of POLITEHNICA/ Bucharest, Professional Degree in Management from the Open University Business School/ UK and is the KNX Solution Manager at Schneider Electric Romania.

Mr. Marculescu is certified as a KNX Partner by KNX Association/Brussels and has been working for Schneider initially as national sales engineer, specialized in automation KNX solutions for buildings.

# Agenda

Lighting Design & Smart Buildings

September 13, 2012, Bucharest

**9:00 am - 9:30 am | Registration & Welcoming Coffee**

**9:30 am - 11:00 am | Training**

**Trainer | Prof. Dr. Dorin Beu**

1. Introduction: lighting between functionality and emotion
2. Lighting Basics (units, measurements and standards)
3. Lamps
4. LED: tales or facts?
5. Lighting Systems

**11:00 am - 11:15 am | Coffee break**

**11:15 am - 13:30 pm | Training**

6. Daylight and Light pipes
7. Dialux – European Lighting Software
8. EN 15193 - Lighting ENergy Index LENI
9. Enviromental Product Declaration for Luminaires
10. Lighting Control Systems

**1:30 pm - 2:30 pm | Lunch**

**2:30 pm – 4:00 pm | Training**

**Trainer | Rafael Marculescu, Schneider Electric**

Lighting Atomization  
Case Study - “Bremen Technical University”

**4:00 pm - 4:15 pm | Coffee break**

**4:15 pm - 5:30 pm | Training**

**Trainer | Prof. Dr. Dorin Beu**

Case Studies