

# Lighting Design & Smart Buildings

October 28<sup>th</sup> 2013, Timisoara

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. Lighting control systems
10. Case studies

See a preview of Professor Beu's training [here](#).

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

## 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 | pay in advance - individual course -> **195** Euro
- RoGBC member | pay on the day - individual course -> **235** Euro
- Non-member | pay in advance - individual course -> **295** Euro
- Non-member | pay in advance - individual course -> **325** Euro

# Trainer Profile

## Lighting Design & Smart Buildings

### 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 'Tehnica 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.

## Agenda

### Lighting Design & Smart Buildings

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

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

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. Lighting Control Systems

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

## **2:30 pm – 4:00 pm | Training**

LED/ OLED future  
Case study: RoGBC office

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

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

Case Studies