

Green Design Principles

February 18, 2011, Piatra Soimului Vila, Sinaia

This full-day course focused on the principles of green building design. Topics included solar orientation modeling, natural day-lighting and ventilation, and valuable tips for sustainable construction projects.

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

Location

Due to the generous support of our hosts, "Piatra Soimului" Vila, we are able to offer our all paid course attendees two free nights of accommodation for February 17 & 18, 2011.

The **Piatra Soimului Vila** is pursuing the "Eco Label for Hotels" as part of its commitment to environmental responsibility. For more information on the Euro Eco Label, please see these videos from RoGBC's recent "Greening our Hotels" conference, part 4 and 5.

Map is available here

Agenda

9:00 am | Coffee and registration

9:30 am – 6:00 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

For discounts and the course program please click here.

For registration to this course only, please click here.

Trainers Profile

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Aurore Julien

MCIBSE, LEED AP, BREEAM Assessor | Lecturer, Freelance Consultant for XRG Limited

Mrs. Julien is a Lecturer at the University College of London and a freelance consultant for XRG Limited. Trained as an engineer, she has expertise in environmental design, building physics, natural ventilation, daylight and renewable energy systems. Mrs. Julien has been working on a wide variety of projects, ranging from schools, hospitals, residential, and offices, both in the UK and internationally. She is a Chartered Engineer from the Institution of Building Services Engineers and attended the National Institute for Applied Sciences (INSA France) and University College London (UCL), earning a Masters in Environmental Design and Engineering, and is a LEED Accredited Professional and BREEAM assessor.

Her research studies relate to energy use behavior and energy security. Some projects include an innovative design of the natural ventilation system for the Eden Institute, the first residential CHP in the UK, based in the Altrincham development, the CHP for a new campus for Columbia University, New York, and consultancy for hospital and school PFI projects and several large scale residential developments in the UK.

Prior to her current activities, Mrs. Julien worked as an environmental designer at BDSP, a sustainability driven building consultancy. She then went on to head up sustainability of the engineering consultancy Ramboll Whitbybird (RWB) for four years. During her time with RWB, the company won the 'Sustainability Designer of the Year Awards' consecutively for two years (BM, 2006, and BSJ, 2007). She then lead Eco Systems for two years, a design unit of Llewelyn Davies Yeang focused on eco and sustainable design.

Agenda

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

9:30 am - 9:40 am | Opening Words by the RoGBC

9:40 am - 11:40 am | Training

Part 1 | Bioclimatic Building Design and Software

This section is an introduction on the design of green buildings, including some technical discussions and the introduction of software that can support green building design.

- 1.1. Why bioclimatic design?
- 1.2. The principles of bioclimatic design
- 1.3. Wind around buildings (theory, project examples, simulation tools)
- 1.4. Natural ventilation (theory, project examples, simulation tools)

11:40 am - 12:00 pm | Coffee Break

12:30 pm - 13:45 pm | Training

Part 1 | Bioclimatic Building Design and Software (continued)

- 1.5. Sunlight (theory, project examples, simulation tools)
- 1.6. Daylight (theory, project examples, simulation tools)
- 1.7 The bioclimatic design process (interactive)

“What are the stages of the design of a bioclimatic building?” - Establish a method to design a bioclimatic building, by giving the different types of analysis that are carried out at different stages of design, and by whom.

1:45 pm - 2:45 pm | Lunch

2:45 pm - 4:15 pm | Training

Part 2 | The Management of Green Building Design

2.1. Case study

Workshop - “An existing office needs refurbishment. Which course of action would you recommend to decide which features could improve its energy efficiency?”

2.2. The EBPD and Building Energy Use

2.3. Why green buildings?

2.4. What is a green building? (interactive)

Workshop - “What are the features that define a green building? Please give a list of all the green features that you can think of for a building”.

2.5. The environmental rating tools (LEED, BREEAM etc)

4:15 pm - 4:30 pm | Coffee Break

4:30 pm – 5:45 pm | Training

Part 2 | The management of green building design (continued)

2.6. How can we achieve a green building? (interactive)

Workshop - “How can we achieve a green building? - Please think about challenges that may occur if you are trying to achieve a high LEED / BREEAM or other score, and how these could be overcome”.

2.7. The green design process and Charrettes (interactive)

Workshop - “What could be the agenda of a green design charrette? – Please write the agenda of a green design charrette, including attendees”

5:45 pm - 6 pm | Closing words by the RoGBC