



WORLD GREEN BUILDING COUNCIL
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Estonian Green Building Council Europe Education Training Catalogue 2018-2019

Contact: Piibe Lind, Piibe.Lind@GBC.ee or Jane Joe, Jane.Joe@GBC.ee



COURSE DESCRIPTIONS AND TRAINER PROFILES

One trainer is chosen from the list per course

Estonian Green Building Council 'Green Building Professional' Accreditation

Project Management of Sustainable Projects

This full day course is focused on best practices for managing successful green building projects. The course covers, among other topics, key sustainable construction principles including "Integrated Design" and obtaining optimal performance results from project partners.

Participants in this course will learn to:

- Identify the definition of integrated project management
- Identify the goals, intents, and requirements of a green building project
- Identify the pros and cons of an integrative approach to enhance the cost effectiveness
- Evaluate the tools and strategies needed to successfully deliver high-performance building projects
- Implement best practices into your business practices for managing a sustainable building
- Plan for key considerations in the project management process
- Increase the project's profitability through streamlined management practices

Trainers' Profile

Vessel Valtcheva-McGee

Ms. Valtcheva-McGee has extensive experience with sustainability in both practice and education. She has been a LEED Accredited Professional BD+C (Building Design & Construction), a BREEAM International Assessor, and a DGNB (German Sustainable Building Council) Auditor for their building rating tool. She has been a founder and President of a USGBC chapter in the United States, serving as an officer of the executive committee for 6 years. In her capacity as an architect she has worked on LEED projects of national significance and as a consultant she managed the administration and documentation of numerous LEED rating systems on projects of various scopes and sizes.

In 2008 Vessela joined partners to form Triple Green Building Group, LLC - a full service sustainability consulting and education, company. She has worked with two major USGBC education providers in the US to deliver LEED workshops and co-authored a LEED Prep and LEED Practice Exam book for Professional Publications, Inc. She has since taken the company international creating a base in her native country of Bulgaria where she is serving as Director of Education and Development for the Bulgarian Green Building Council.

In 2010 The U.S. Green Building Council recognized Triple Green Building Group as an Authorized Education Delivery Partner providing the company with a license to deliver USGBC's LEED curriculum courses for the international marketplace. Triple Green is recognized as one of a handful of trusted partners around the world who have obtained a license to deliver USGBC's LEED curriculum. Vessela holds a Master of Architecture degree from the Savannah College of Art and Design where she is an honorary guest lecturer..

Steven Beckers

Since completion of his architectural studies diploma work in 1984, Mr. Beckers developed a global approach on sustainability in architecture and urban planning. This approach began with the Meknes Hotel project featuring natural climate control, local materials and labour, water treatment and contextual/cultural approaches. The project was honoured with the Aga Khan and "African Technical Association" prize. A year later, his project for the Wilson Palace in association with the Geneva Gaillard Architect firm was awarded the jury prize on

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environmental urban planning.

Steven was European director of the London firm EPR architects from 1986 till 1996 and was a founding member of Architecturo EEIG in 1990. The European group responsible for sustainable projects in France, UK and Portugal won the 1996 Green Office European award with the EXPO 98 Headquarters in Lisbon. As Head of Architecture for Berlaymont 2000, He was responsible for the 250 million Euro restructuring of the European Commission headquarters in Brussels which is recognized as a European Commission benchmark in sustainability and was awarded the PLEA Passive and Low Energy Architecture award in Cambridge 2000. From 2000 till 2010, Steven was a partner with Art&Build Architects; a firm selected by Greenpeace for their headquarters in Brussels, by the Council of Europe for the Agora, Pharmacoepa and nursery buildings in Stsburg (receiving BEX, MIPIM, LEAF and RICS prizes). Steven initiated, with AG Real Estate for Carré 92 HQE&BBC a 15 hectare development in Gennevilliers, France and with Equilis the 30 hectare Waterwalk Cradle2Cradle urban regeneration in Brussels. Steven Beckers is now an independent registered Cradle to Cradle™ architect/consultant, Master of Conference at BATir ULB university, vice president of Seco building control, founding member of Local Solutions Development Group ASBL already active in Africa and founding partner of “Lateral Thinking Factory” (www.LateralThinkingFactory.com); supporting projects according to Cradle to Cradle principles with a multidisciplinary network of world experts that include c2c authors Dr. Michael Braungart and Architect William Mc Donough.

Hadley Barrett

The Oxford Sustainable Group is one of the leaders (in size, complexity and value) in planning and developing renewable energy and sustainable development projects. It has been operating in its current form since 2005. The Group develops its own projects as well as supporting private sector companies and various governments with advice, presentations and trainings.

Hadley has directed private listed funds and formed, managed and/or sold around 70 companies in renewable energy and sustainable development. He has managed teams, advised and/or led projects in Finland, Estonia, Romania, UK, Netherlands, Scandinavia, Italy, Guernsey, amongst others. Hadley was instrumental in creating the Oxford 360 degree Sustainability Index. Hadley qualified as a PMI project manager and is a qualified Breeam assessor. His focus is practical, affordable sustainability. In addition, Hadley read an MBA at Oxford University and is Chairman of the Green Building Council in Estonia, non-executive for a number of funds, CEO of the Oxford Sustainable Group and still manages to sleep now and again.



Sustainable Materials and Resources

This full day workshop focused on understanding the availability, benefits, legislative requirements and specification considerations for using Sustainable Construction Materials in construction project. Important green design concepts such as "cradle to cradle" and embodied energy will be presented.

Learning objectives for this course include:

- Establish the relationship between the demands of sustainability and the resources used in construction.
- Understand the environmental impact of materials used in construction
- Critical reflection of the typical way of designing, using and managing resources throughout the lifecycle of buildings
- Propose an evaluation methodology and suggestions for improving the materials used in construction, maintenance and refurbishment of buildings.
- Share the knowledge brought from different professional backgrounds and determine the active roles for

Trainers' Profile

Gerardo Wadel Ph. D.

Dr. Wadel is a founding partner of Societat Orgànica since 2005 working in the fields of materials, constructive systems and water. Societat Orgànica is a consultancy promoting the sustainability paradigm in building sector considering the closing of the material cycle as a necessary condition in order to achieve sustainability. The company develops the tools and information about the materials flows in order to evaluate the sustainability of a building.

Gerardo graduated as an Architect in 1989 from La Plata National University and did his specialization in 1994 Buenos Aires University; completing his PhD in Barcelona at the Polytechnic University of Catalonia. In 1999 he began to work at Pixar Publishing in Barcelona as director of the "Constructiva" publication. Since 2005 he is a Professor and researcher at the La Salle school of Architecture at Ramon Llull University in Barcelona. Since 2005 he works as Societat Orgànica in the fields of materials, constructive systems and water.

Luca Volpi

Mr. Volpi is an environmental consultant at Societat Orgànica working in the fields of energy and materials. Societat Orgànica is a consultancy promoting the sustainability paradigm in building sector considering the closing of the material cycle as a necessary condition in order to achieve sustainability. The company develops the tools and information about the materials flows in order to evaluate the sustainability of a building.

Luca graduated as an Architect in 2006 from the Darmstadt Technical University specializing in energy efficient buildings with postgraduate studies in Renovation and Solar Building from the energy and environment center in Kempten.



Green Design Principles

A full day course focused on the principles of green building design. This integrated course delivers a practical overview on sustainable building projects and include the basics on bioclimatic and sustainable architectural design. The course will cover an overview of a number of sustainable building projects interweaving the theoretical basis of bioclimatic architectural design with the examples, so that a participant's solid understanding of the main topics is attained at the end of the day.

The key sections of this course include:

- Climate and Comfort | Heat Transfer | The Importance of Orientation
- Envelope. Glass and Blind | Water | Materials and Construction
- Practical Examples
- Deep energy refurbishment

Trainer's Profile

Emilio Miguel Mitre

Emilio Miguel Mitre's experience includes 27 years of bioclimatic design. He has worked as Technical Director of Desarrollos Tecnicos de la Madera; a private company devoted to the manufacturing of wooden structure buildings. Since 1989 he has focused his activity on sustainable building design and construction, according to a concept named AMBIENTECTURA, which integrates bioclimatic architecture and engineering processes in buildings.

Mr. Emilio Miguel Mitre has participated as an energy consultant and coordinator in various European Union projects including Energy Comfort 2000, BEST 2000, Pascool, SunRise and Regen Link and has acted as energy efficiency projects evaluator on behalf of the EU Commission. In 2001 Mr. Emilio Miguel Mitre, together with colleague architect Carlos Exposito Mora founded ALIA, Arquitectura, Energia y Medio Ambiente s.l., one of the best known sustainable architecture practices in Spain. ALIA's approach is aimed at achieving high profile energy and environmental results in a building as usual scenario, thanks to efficient architectural designs.

Since 2010, Mr. Emilio Miguel Mitre is a member of the Steering Committee and of the Policy and Education Taskforces of the Europe Regional Network of the World Green Building Council. Emilio served a two year term as Education Taskforce Chair working to ensure the quality and relevance of sustainable construction education throughout Europe. Emilio also serves as a member of the Board of Directors for the International Initiative for a Sustainable Built Environment (iiSBE.org) with responsibility as coordinator for the organizations world conference in Barcelona in 2014. He is very active in education, communication and dissemination activities, with numerous articles, lectures and presentations in professional and academic forums.



Legal Requirements and Green Building Certifications

A full-day course that provides essential information on the current and impending European and National legislation and international green building rating tools that are increasingly demanded by investors and dramatically changing how buildings are designed, constructed, operated and deconstructed.

Successful students of this course will:

- Understand the policy driving EU green building legislation
- Understand the way such legislation works and how it is evolving
- Understand the main current and upcoming requirements in buildings legislation
- Understand the future direction of travel for EU green building legislation
- Understand the function of green building rating systems and certification.
- Have basic knowledge of the main rating tools available to the European market
- Receive an introduction to the various professional credentials available through each rating system

Trainers' Profile

Urmas Volens

Urmas Volens, a specialist counsel, has been practising law since 1998. He is head of Sorainen's Real Estate & Construction Team in Estonia, which includes the Construction, Environmental and Real Estate Practices.

Before joining SORAINEN, Urmas worked for the Ministry of Justice from 1998, most recently holding the position of deputy secretary general of the Ministry's legal policy department.

Urmas has participated in drafting all the basic acts of private and public law – *inter alia* Law of Property Act, Law of Obligations Act, Land Register Act, several amendments to Commercial Code, Law of Succession Act, Code of Civil Procedure and Code of Enforcement Procedure, Personal Data Protection Act, Employment Contracts Act, Reorganization Act, etc - and in legislative proceeding of these in the parliament (Riigikogu). Urmas also participated in EU legislative processes at various levels (in the civil law and company law working groups of the European Commission and the Council), and represented Estonia at the European Committee on Legal Cooperation of the Council of Europe and at the Hague Conference on Private International Law. Urmas has been involved in preparing codification of environmental, social, construction and planning, and economic administrative law.

Urmas has lectured for judges, public prosecutors, notaries, as well as taken part in training and examining bailiffs, assistant judges and other court officials. He is a recognised seminar and conference presenter and a lecturer in civil law at the University of Tartu Law Faculty. Urmas is a recommended practitioner by *Best Lawyers* for corporate and M&A, government relations, insolvency and reorganisation, litigation practices.

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Creating and Managing Greener Workspaces

This full-day course is dedicated to the understanding how to design, construct and operate green workspaces. The course presents key information on various sustainable office solutions. The course is useful for executives, architects, product designers, technologists, engineers, academics, students, and others interested in exploring ways to benefit from the important shift toward energy efficient and environmentally responsible design principles.

On completion of this course, successful students will be able to:

- Understand the changing nature of work
- Describe the business case for green workplaces
- Develop a Green Office program in their own workplace
- Describe the opportunities and barriers for creating green workplaces
- Examine components of green workspace design
- Describe the range of stakeholders and their reasons for engagement with green workplaces

Trainers' Profiles

Eric Johnson

Mr. Johnson is an Executive Cost Manager at Gardiner & Theobald's Prague office. He has over 11 years of experience in the construction and property industry and has worked on developments in the United States, Central and Eastern Europe, and the Middle East. He is a LEED Accredited Professional and a licensed BREEAM Assessor.

Mr. Johnson is currently leading the green building certification processes for new and existing developments throughout Central and Eastern Europe and recently successfully completed a LEED "Platinum" office project in Prague. Eric's other projects include a Czech Technology Park in Brno, Czech Republic, Stadion, Zilina in Slovakia and an office tower in Bucharest, Romania seeking an existing building certification.

Devyn Olson-Sawyer

Devyn Olson-Sawyer has worked in the architecture/engineering/construction sector for over 15 years in both Ireland and the United States. She is a LEED AP, and is one of the initiators and a founding board member of the Irish Green Building Council, where she also chairs the Education Committee and participates in the LEED International Roundtable. Through her company NICER Training, she provides sustainability consulting, including research, programme development, training, and advice, in the areas of green building, green business, eco-tourism, and land use and ecology. She also is a director of Éasca, the Environmental and Sustainable Construction Association (of Ireland).

Victor Branagan

Victor Branagan (M.Sc. M.B.S.) is the principal of SustainEd (www.sustained.ie) and has extensive experience in business with particular emphasis on social and environmental sectors. Recently, he worked as the Director of the Green Business School within Green Works, a large government funded programme that delivered courses on sustainability to those looking to up-skill to meet the emerging green economy. He has worked as a consultant, business advisor, mentor, facilitator in countless businesses in all sectors of the economy. He has designed, delivered and evaluated many social enterprise programmes with local authority and partnership involvement.

Victor has twenty years of experience in education and training and combines this with his interests in entrepreneurship and sustainability, to develop new programmes for a sustainable future. He links diverse partners and ideas into innovative and imaginative programmes that can really enrich the learning experiences for participants.

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Victor holds a Masters in Strategic Leadership towards Sustainability from Blekinge Techniska Hogskola, Sweden and a Masters degree in Entrepreneurship Management from the University of Limerick. He lectures on the Sustainable Business module on the International Business degree programme in the Irish American University, the only such module in the country. He enjoys making all sorts of things down on the small farm he owns in County Kilkenny and when in Dublin he dances his socks off with the Dublin Dance Co-op, a group of '5 Rhythm' enthusiasts.

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Financial Considerations of Green Buildings

This workshop is designed to equip real estate developers and investors, valuation experts, financiers, facility managers, architects, engineers, project managers and other stakeholders with a better understanding of the ways in which sustainability affects the level or risk, and subsequently the value, associated with a green building.

The trainers will highlight the key business case value factors for the various stakeholder groups and will explain how sustainable buildings provide benefits in each instance.

On completion of this course, successful students will be able to:

- Understand the main drivers and financial aspects that govern green building considerations
- Identify key concepts that investors and corporate managers look for in developing green projects
- Describe the range of different stakeholders and their reasons for engagement with green buildings
- Explain the current trends in considering the valuation of green building projects
- Examine the occupancy rates, rental and sales premium that green buildings command

Trainers' Profiles

Hadley Barrett

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Mihnea Chear

Mr. Chear is a Project Manager at Aquarius Grup, a company with extensive regional experience in the sector of construction project management and cost control. He has strong experience in construction project management, having worked on more than 200 000 sqm of accumulated built area of real estate development projects and with extensive involvement in LEED and BREEAM projects.

Mihnea is currently serving as Project Manager for an exemplary green school renovation as part of the Romania Green Building Council's "Construieste Scoala Verde" (Building Greener Schools) campaign.

He holds a Masters in Science Degree in Civil Engineering from the Technical University of Civil Engineering, Bucharest. He and Aquarius Grup are active founding members of the Romania Green Building Council.

Steven Borncamp

Mr. Borncamp was an early advocate of sustainable development and socially responsible business having joined in 1993 the First Affirmative Financial Network - one of the pioneering investment companies in sustainability in the United States. In 2005 he founded EcoNavitas (formerly SOPOLEC) an innovative business and technology consultancy company dedicated to supporting and growing environmentally responsible

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businesses. Through prior work at EcoNavitas, KPMG Consulting and BearingPoint he has provided strategic advice and managed complex business, technology, and knowledge management projects for leading companies across the Central and Eastern European region and throughout the United States. He has presented for conferences including “Collaborative Tools: Solutions for Improving Efficiency”, “Building a Culture of Knowledge Sharing”, and “The Innovative Workplace”.

Steven has assisted the development of seven Green Building Councils and is the Founding President of the Romania Green Building Council. He and his team delivered three "Build Green Central Eastern Europe" conferences, an influential green buildings awards program, and numerous other green building initiatives for the region including in the areas of policy and green finance. He has worked effectively to create a comprehensive and proficient marketplace for green building solution providers. Steve is currently leading four exemplary green building projects and has over fourteen years of successful project management experience. He is currently managing the local implementation and operations of the Romania platform of Construction21.eu and is a contributor to the European platform content.

Steven is the current Chair of the Europe Green Building Council Network’s Education Taskforce working to ensure accessible, relevant and high quality sustainable construction education is available throughout Europe and internationally. He holds a Bachelor in Economics from the University of California San Diego and a Masters in International Relations from Tufts University's Fletcher School of Law and Diplomacy.

Florin Furdui

As the Country Manager for Portland Trust Romania, Mr. Furdui is responsible for all operations and development activity of the company in Romania. The company was established in 1997 to develop premium institutional and commercial real estate assets throughout Central Europe. He oversaw a LEED certification process of an existing building in Portland Trust’s portfolio that recently was sold for 100 million Euros and is currently guiding the development of a new construction that is pursuing green building certification. Florin has extensive business, management, technology, and real estate with prior experience at the board level in the banking, communications, and Information Technology industries.

Florin and Portland Trust are active members of the Romania Green Building Council. He holds a Bachelor Degree of Science at the University of POLITEHNICA, Bucharest and graduated the ASEBUSS EMBA in Finance, Marketing, HR, International Management, and Statistics.



Integrating Renewable energy and Sustainable development

The course explains the opportunities and issues to consider when integrated Renewable Energy Sources into buildings

On completion of this course, successful students will be able to:

- Covers the full lifecycle from feasibility, analysis, choosing the optimum energy source to integration, installation and operation
- Analyse the feasibility of renewable energy integration in a development
- Understand the main criteria for selecting the most popular renewable energy types
- Various case examples, pitfalls, and successes are identified for a practical approach
- Understand basic financial modeling necessary to evaluate renewable energy integration
- Understand new innovations that are improving outcomes for integration projects
- Learn tips from a renewable energy development perspective
- Major concerns and focus areas during partner selection

Trainer Profile

Hadley Barrett

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Sustainable Site Selection and Management

A full-day course to educate professionals on the importance of selecting a proper site for the purposes of constructing and operating green buildings. Investors need to have a clear understanding of the requirements of green buildings before purchasing land. The internationally recognized green building rating tools reward those who are developing building sites with regard to the biodiversity value and other ecological impacts, public transit availability, and other sustainable siting and management considerations.

This course teaches:

opportunities and challenges of brownfield development including remediation and credit for green building certification.

- assessing biodiversity value and innovative programs to minimize cost while maximizing ecological benefit and land value
- new legal requirements (including recent changes for liability for soil toxicity)
- the relationship of site selection and management to international green building certifications

Trainers' Profile

Jeffrey M. Hudson

Mr. Hudson is an Executive Vice President of F&R Worldwide working with developers, community leaders, financial institutions and industry on sustainable site selection and site development in Europe. He has over 24 years of experience in the environmental and engineering fields most of which has been devoted to brownfields, environmental remediation and risk management. He works with developers, community leaders, financial institutions and industry on sustainable site selection and site development both in the United States and internationally. Many of his projects have involved LEED certification work, sustainable development, and innovative remediation solutions. Jeff attended Randolph-Macon College where he studied Biology and Chemistry and Virginia Commonwealth University for Organic Chemistry.

Perry Zizzi

Perry Zizzi is a Partner with Clifford Chance attorneys and the firm's regional lead on environmental law matters. He was an early supporter and founding member of the Romania Green Building Council and an active member of the Council's Legislative Outreach Task Group. Mr. Zizzi has extensive experience in real estate representing lenders, borrowers, buyers and sellers in complex cross-border transactions in Eastern Europe and is the firm's. Perry holds a Juris Doctorate from Columbia University School of Law and a Bachelors in AB Government from Georgetown University.

Hadley Barrett

Mr. Barrett is the Managing Partner of Oxford Sustainable Group; one of the leaders (in size, complexity and value) in the design, planning and development side of renewable energy and sustainable development projects for seven years. The company is developing its own projects as well as supporting private sector companies and various governments with advice, presentations and trainings.

Hadley has directed stock market funds and formed, managed and/or sold around 70 companies in this field. He has managed teams, advised or lead projects in Finland, Estonia, Latvia, Romania, UK, Netherlands, Scandinavia, Italy, Guernsey, amongst others. Hadley was instrumental in creating the Oxford 360 degree Sustainability Index. His focus is practical, affordable sustainability. In addition, Hadley read an MBA at Oxford University and is Chairman of the Green Building Council in Estonia, non-executive for a number of funds and CEO of the Oxford Sustainable Group.

Martin Dreiseitel

Mr. Dreiseitel is the President and CEO of F&R Worldwide working with developers, community leaders,

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financial institutions and industry on sustainable site selection and site development in Europe. Mr. Dreiseitel is actively involved both with the Romania Green Building Council and an initiative launched by the US embassy in Romania to develop a national Brownfield strategy.

Mr. Dreiseitel holds a MSc in Environmental Engineering from the University of Applied Life Sciences in Vienna and has over 15 years of experience most of which has been devoted to Brownfields, remediation and risk management in several European countries.

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Effective Building Envelopes

This full-day course focuses on the importance of the building envelope in creating and operating highly performant green buildings.

On completion of this course successful students will understand:

- Principles of envelope bioclimatic design for:
 - Daylight
 - Passive solar design
 - Solar shading
 - Natural and mixed mode ventilation
- Principles of green envelope refurbishment
- How to select green envelope materials and systems

Trainer's Profile

Aurore Julien

Ms. 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.

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 lead the sustainability practice 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 the Eco Systems practice for two years, a design unit within Llewelyn Davies Yeang focused on eco and sustainable design.

Aurore 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. She is a LEED Accredited Professional and BREEAM assessor.



Sustainable Landscape & Exterior Design

A full-day course focused on Sustainable Landscape and Exterior Site Design. Sustainable Landscaping is an important component for building projects seeking internationally recognised green buildings certifications.

Participants in this course will learn about:

- Analyzing the Site
 - Green Building certification requirements for sustainable landscape
 - Sustainable Site Analysis
- Sustainable Design Considerations
- Sustainable Plant Choices
- Sustainable Irrigation

Trainer Profile

Katja Negru Perrey

MFA | Hort

principal of KP Landscapes

International Lecturer on Sustainable Exterior & Landscape Design

Mrs. Negru Perrey comes to landscape design from an extensive background in the fine arts and horticulture, the perfect combination for creating smart, beautiful and ecological landscapes. She received both a Bachelor of Fine Arts degree in Photography and a Masters degree in Fine Arts from the California Institute of the Arts. After exhibiting internationally and working as a commercial photographer, an emerging passion for urban landscapes compelled her to direct her talents towards landscape design and horticulture.

While receiving a horticulture degree from UCLA and earning a 'Master Gardener' certificate from UC Davis, Mrs. Negru Perrey worked in all areas of landscape installation and maintenance. She gained hands-on experience as crewmember, foreman and later division supervisor for a number of high-end landscape maintenance companies in Southern California. Prior to starting her own company, Mrs. Negru Perrey honed her design skills at several prominent landscape design companies in Los Angeles, including Jay Griffith Landscape, Venice/CA.

Besides winning multiple grants for public garden design projects in California and 'Sustainable Company of the Year 2010' at the Romania Green Building Awards, she served also as the director of an innovative district-wide school garden program for the City of Santa Monica's Sustainable Programs division.

Mrs. Negru Perrey is an active member at the Romania Green Building Council, the San Diego chapter of the USGBC and the European Chapter of the World Green Building Council, where she conducts Sustainable Landscape Design workshops for architects, developers, engineers and other stakeholders of the building industry. Recently she has designed the exterior and landscape for the first 'Living Building Challenge' project in Europe - a library renovation in Cacica, Romania lead and financed by the RoGBC and its member companies.

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Historical Renovations using Green Principles

The buildings sector represents 40% of the European Union's total energy consumption. Reducing energy consumption in this area is therefore a priority under the '20-20-20' objectives on energy efficiency. A great part of this housing stock is made up of buildings of historical interest where the need for energy efficiency and sustainable management combines with the importance of protecting architectural and cultural heritage. An evolution of the 'triple bottom line' is required to include social equity and cultural issues, economic constraints and environmental quality.

Specific techniques, technologies, materials and a different approach may be useful to cope with this issue. It's important to define and use guidelines and effective tools to design, assess and properly manage renovation works on buildings of historical interest.

The workshop will provide overviews and case studies about:

- Definition and characteristics of a historic building
- The regulatory EU context on energy efficiency
- Main problems and opportunities in sustainable renovation of historic building
- National refurbishment policies for historic buildings in Europe
- European R&D projects on energy saving renovation of historic buildings
- Guidelines, toolkits for historic building renovations
- A new rating system for historic building sustainable refurbishment assessment

Trainer Profile

Carlo Battisti

Carlo Battisti has over 20 years of experience in several Italian construction firms performing multiple roles. He has worked for Habitech, Distretto Tecnologico Trentino (Italy) - the founding member of Green Building Council Italy - as Program Manager of the Business Unit on Sustainable Materials and Construction Products. He launched the web site 'greenmap'; the first Italian on-line database of LEED compliant products.

Carlo has coordinated energy audit activities on forty (mostly historic) public buildings in the South of Italy on behalf of the Ministry of the Environment's "Green Communities" Project. He works as a sustainable innovation consultant, primarily with TIS Innovation Park - the South Tyrolean public innovation agency- where he manages local and European Research & Development projects in the field of construction including the renovation of historic buildings. He is a member of the Standards Committee 'GBC Historic Building', that is implementing a certification protocol focused on historic buildings as is a member of the Standards Committee 'LEED for Existing Buildings' of the Green Building Council Italy.



Cradle to Cradle® for Buildings

Following William McDonough and Michael Braungart's seminal work on "Cradle 2 Cradle: remaking how we make things" the Green Building Professional program has partnered with Steven Beckers - one of Europe's top eco design experts - to create and deliver the "Cradle to Cradle for Buildings" course to building professionals eager to learn about this transformative approach.

This course is essential for all in the construction industry to better understand how we design and utilize construction materials to free us from resource scarcity and reduce (and eventually eliminate) our growing population's harm to the planet.

Participants in the course will learn:

- What is C2C® paradigm and how is it applied to human habitat?
- What are tools for actions and practical applications within real projects including clean materials, clean energy, clean water, clean air, support bio diversity, design quality
- What are facilitation techniques to apply C2C® principles within context freed from professionals' usual constraints.

Actual projects under development in your country will be examined and the course participants will undertake a group exercise to dramatically improve the environmental impact and aesthetics of the projects while respecting the necessary cost constraints.

Trainers' Profile

Steven Beckers

Since completion of his architectural studies diploma work in 1984, Mr. Beckers developed a global approach on sustainability in architecture and urban planning. This approach began with the Meknes Hotel project featuring natural climate control, local materials and labour, water treatment and contextual/cultural approaches. The project was honoured with the Aga Khan and "African Technical Association" prize. A year later, his project for the Wilson Palace in association with the Geneva Gaillard Architect firm was awarded the jury prize on environmental urban planning. Steven was European director of the London firm EPR architects from 1986 till 1996 and was a founding member of Architecturo EEIG in 1990. The European group responsible for sustainable projects in France, UK and Portugal won the 1996 Green Office European award with the EXPO 98 Headquarters in Lisbon. As Head of Architecture for Berlaymont 2000, He was responsible for the 250 million Euro restructuring of the European Commission headquarters in Brussels which is recognized as a European Commission benchmark in sustainability and was awarded the PLEA Passive and Low Energy Architecture award in Cambridge 2000.

From 2000 till 2010, Steven was a partner with Art&Build Architects; a firm selected by Greenpeace for their headquarters in Brussels, by the Council of Europe for the Agora, Pharmacoopa and nursery buildings in Stsburg (receiving BEX, MIPIIM, LEAF and RICS prizes). Steven initiated, with AG Real Estate for Carré 92 HQE&BBC a 15 hectare development in Gennevilliers, France and with Equilis the 30 hectare Waterwalk Cradle2Cradle urban regeneration in Brussels.

Steven Beckers is now an independent registered Cradle to Cradle™ architect/consultant, Master of Conference at BATir ULB university, vice president of Seco building control, founding member of Local Solutions Development Group ASBL already active in Africa and founding partner of "Lateral Thinking Factory" (www.LateralThinkingFactory.com); supporting projects according to Cradle to Cradle principles with a multidisciplinary network of world experts that include c2c authors Dr. Michael Braungart and Architect William Mc Donough.

Contact: Piibe Lind, Piibe.Lind@GBC.ee or Jane Joe, Jane.Joe@GBC.ee



Water Preservation and Efficiency

This full-day course teaches design techniques and the use of technology and materials to minimize water usage in the construction and operation of buildings. The course included information on appliances, fixtures, and solutions that contribute toward points scored on voluntary green building certification schemes such as LEED, BREEAM, DGNB, HQE, etc.

Students will learn about:

- Green Building certificates and Water Efficiency, Alternatives in water management
- Life Cycle Cost Analysis related to Water Efficiency, Microbial Contamination
- Water Systems - Low or Zero Carbon Technologies
- Water Consumption, Metering and Major Leak Detection
- Irrigation Systems
- Sustainable on-site water treatment
- Materials Specification
- Mitigating Ecological and Impact Long Term Impacts on Biodiversity

Trainer Profile

Stephen Scrivens

Mr. Scrivens has an extensive background in construction project management having worked on over 100 large building projects in the UK, Spain, Romania, New Zealand and Korea including corporate headquarters for companies such as Anglo American, 3i's, Robert Fleming, Repsol, Sony, Proctor and Gamble, British Nuclear Fuels, Canon, Glaxo, Britoil, the Hong Kong and Shanghai Banking Corporation, and the Pentland Group. He has worked on a number of shopping malls including Meadowhall (Sheffield), the Cascades in Portsmouth/UK, the Octagon Centre in High Wycombe/UK, Vicarage Fields in Barking/UK, Lakeside in West Thurrock/UK, Royal Victoria Place in Tunbridge Wells/UK and the Metrocentre in Newcastle/UK. He also master-planned a number of business parks including Brooklands and Arlington's Business Park at Theale/ UK, which won the 'Financial Times Business Park of the Year Award'.

He lectures extensively and internationally in the UK as well as Sweden, New Zealand, Romania, Croatia and Australia on urban design and green technology. He has authored numerous text books and over seventy articles on a range of topics including urban landscape, water management and green roofs and in 2002 published a pamphlet on "How to design a water feature". Mr. Scrivens has made presentations to the British Government on low cost mass housing with a focus on affordability and alternative methods of financing. He worked on the reuse of the Millennium Dome in London and the Eden Project, both in the UK. Steven's experience also includes the design of storm water balancing and flood compensation systems. He has master-planned developments adjacent to watercourses and within flood plains and has attenuated water flow from major developments by integrating a range of technologies to create a unified system.

Steven was a member of the team that created the "Evolution" System for building low cost apartments. He has recently developed designs for a new generation of low cost zero energy homes to help meet Romania's housing needs. He is a BREEAM assessor and holds a Postgraduate Diploma in Landscape Architecture from the University of Sheffield/UK and an Honours Degree in Horticulture from the University of Bath, United Kingdom. He lectured from 1975-1981 in Construction at Pershore College, United Kingdom.

Contact: Piibe Lind, Piibe.Lind@GBC.ee or Jane Joe, Jane.Joe@GBC.ee



Lighting Design & Smart Buildings

A full-day course explaining the principles of lighting design and the integration with Building Management Systems to create high-performance green buildings.

The course subjects include:

- Lighting between functionality and emotion
- Lighting basics (units, measurements and standards)
- LEDs
- Lighting systems
- Daylight and light pipes
- Dialux - European lighting software
- EN 15193 - Lighting ENergy Index LENI
- Lighting control systems
- Building Management Systems
- Case studies

Trainer's Profile

Dorin Beu Ph.D.

Dr. Beu lectures at the Technical University of Cluj-Napoca, manages the university's lighting engineering laboratory and was the chairman of the Romanian Lighting Convention Bucharest 2011. He has participated in several European energy efficiency programs, most recently the 'European Efficient Residential Lighting Initiative' (ENRLIN). He is the elected President of the Romanian National Lighting Committee and Director of the Romania Green Building Council's Transylvania Chapter.

Dr. Beu was the lighting and electrical design coordinator for 36 major building projects including the Worldbank and Radiohall in Bucharest and the Polus Mall, Philharmonic, and Sigma Towers in Cluj. Together, along with sustainable landscape designer Katja, he organized the "Light and Landscape" seminar.

Dr. Beu is the editor of the Romanian lighting publication "Ingineria Iluminatului". He was the author of "Tehnica iluminatului în spații industriale, birouri și locuințe" published by Mediamira" in 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. Lisa Halonen the second volume of an interior lighting guide "Ghidul Centrului de Ingineria Iluminatului" (Mediamira, 2000).

Dr. Beu holds a doctorate degree in Building Engineering earning his Ph.D. in the subject of 'offices with daylight' from the Technical University of Cluj-Napoca. He has won research grants from the University of Liverpool, CSTB Grenoble, University of Barcelona and the Helsinki University of Technology; working on European research projects concerning daylighting, lighting pipes and glazing systems. He was the Romanian director of European project COST ES 1204 LONNE.

Contact: Piibe Lind, Piibe.Lind@GBC.ee or Jane Joe, Jane.Joe@GBC.ee



Zero Energy Houses

Energy use can be measured in terms of cost, energy, or carbon emissions. Whatever measure is used we need to minimise energy consumption. If applied correctly, renewable energy technology can work – but only just. Incorporating passive energy technology has to have a fundamental influence on design.

This course addresses the following questions:

- What will the house of the future look like?
- Can a house be an energy harvesting machine?
- Can we improve our lifestyle and cut CO₂ emissions?
- How will we heat, light and operate homes in the future?

Trainer Profile

Stephen Scrivens

Mr. Scrivens has an extensive background in construction project management having worked on over 100 large building projects in the UK, Spain, Romania, New Zealand and Korea including corporate headquarters for companies such as Anglo American, 3i's, Robert Fleming, Repsol, Sony, Proctor and Gamble, British Nuclear Fuels, Canon, Glaxo, Britoil, the Hong Kong and Shanghai Banking Corporation, and the Pentland Group. He has worked on a number of shopping malls including Meadowhall (Sheffield), the Cascades in Portsmouth/UK, the Octagon Centre in High Wycombe/UK, Vicarage Fields in Barking/UK, Lakeside in West Thurrock/UK, Royal Victoria Place in Tunbridge Wells/UK and the Metrocentre in Newcastle/UK. He also master-planned a number of business parks including Brooklands and Arlington's Business Park at Theale/ UK, which won the 'Financial Times Business Park of the Year Award'.

He lectures extensively and internationally in the UK as well as Sweden, New Zealand, Romania, Croatia and Australia on urban design and green technology. He has authored numerous text books and over seventy articles on a range of topics including urban landscape, water management and green roofs and in 2002 published a pamphlet on "How to design a water feature". Mr. Scrivens has made presentations to the British Government on low cost mass housing with a focus on affordability and alternative methods of financing. He worked on the reuse of the Millennium Dome in London and the Eden Project, both in the UK. Steven's experience also includes the design of storm water balancing and flood compensation systems. He has master-planned developments adjacent to watercourses and within flood plains and has attenuated water flow from major developments by integrating a range of technologies to create a unified system.

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Creating & Managing Greener Schools

Energy use can be measured in terms of cost, energy, or carbon emissions. Whatever measure is used we need to minimise energy consumption. If applied correctly, renewable energy technology can work – but only just. Incorporating passive energy technology has to have a fundamental influence on design.

This course is dedicated to increasing understanding of why and how to design, construct and operate green schools. The course is for educators, school planners, facility managers and the building community. The presentation includes examples to demonstrate how energy efficient and environmentally responsible solutions improve learning, increase attendance of students and faculty, improve health and save money.

On completion of this course, successful students will be able to:

- Understand the changing nature of education and community
- Identify key concepts in planning and operating Green Schools
- Examine components of Green School design
- Understand the importance and difference between small interventions and “deep green” schools
- Describe the range of stakeholders and their reasons for engagement with Green Schools

Trainer Profile

Devyn Olson-Sawyer

Devyn Olson-Sawyer has worked in the architecture/engineering/construction sector for over 15 years in both Ireland and the United States. She is a LEED AP, and is one of the initiators and a founding board member of the Irish Green Building Council, where she also chairs the Education Committee and participates in the LEED International Roundtable. Through her company NICER Training, she provides sustainability consulting, including research, programme development, training, and advice, in the areas of green building, green business, eco-tourism, and land use and ecology. She also is a director of Éasca, the Environmental and Sustainable Construction Association (of Ireland).

Victor Branagan

Victor Branagan (M.Sc. M.B.S.) is the principal of SustainEd (www.sustained.ie) and has extensive experience in business with particular emphasis on social and environmental sectors. Recently, he worked as the Director of the Green Business School within Green Works, a large government funded programme that delivered courses on sustainability to those looking to up-skill to meet the emerging green economy. He has worked as a consultant, business advisor, mentor, facilitator in countless businesses in all sectors of the economy. He has designed, delivered and evaluated many social enterprise programmes with local authority and partnership involvement. Victor has twenty years of experience in education and training and combines this with his interests in entrepreneurship and sustainability, to develop new programmes for a sustainable future. He links diverse partners and ideas into innovative and imaginative programmes that can really enrich the learning experiences for participants. Victor holds a Masters in Strategic Leadership towards Sustainability from Blekinge Techniska Hogskola, Sweden and a Masters degree in Entrepreneurship Management from the University of Limerick. He lectures on the Sustainable Business module on the International Business degree programme in the Irish American University, the only such module in the country. He enjoys making all sorts of things down on the small farm he owns in County Kilkenny and when in Dublin he dances his socks off with the Dublin Dance Co-op, a group of ‘5 Rhythm’ enthusiasts.