



**SBE19**  
**SCILLA**

**Sustainable Built Environment Conference**  
**May 16th – 17th 2019, Scilla**

# PROGRAM

## Organizers



**POR Calabria**  
2014-2020  
*Il futuro è un lavoro quotidiano*



## Promoters



## Supporters



Smart Specialization Strategy Calabria  
Area di innovazione Edilizia sostenibile

**WEDNESDAY 15.05.19****H 20:00 WELCOME GALA @ Altafiumara Resort & SPA****THURSDAY 16.05.19****H 9:15 – 10:15****OPENING CEREMONY – Orangerie Hall**

Mario Oliverio, Calabria Region President - Italy  
Roberto Musmanno, Calabria Regional Councilor for Infrastructures - Italy  
Vannia Gava, Undersecretary of State at the Ministry of the Environment - Italy  
Damià Calvet, Minister of Territory and Sustainability - Generalitat de Catalunya - Spain, Catalonia

**Logical Framework Approach to Calabria sustainable development: the intervention program on school buildings**

Francesco Russo, Vice-President Calabria Region - Italy

**Environmental sustainability of buildings: the revision of constructions' law in Italy**

Raffaella Martucci, Ministry of the Environment - Italy

**Evolutions and perspectives of Committee promoting of "Protocollo ITACA": building a culture of change.**

Massimo Sbriscia, ITACA - Italy

**Introduction to SBE19 Scilla: Policies for a Sustainable Built Environment**

Andrea Moro, iiSBE Italia - Italy

**H 10:15 – 11:30****KEY NOTE SPEECHES – Orangerie Hall****Unveiling the Key Levers of Cities Material & Energy Consumption and Emissions**

Serge Salat, Urban Morphology & Complex Systems Institute - France

**Urban energy transition: renewable strategies for cities and region**

Peter Droege, Liechtenstein Institute for Strategic Development - Liechtenstein

**COFFEE BREAK****H 12:00 – 13:30****THEMATIC SESSION 1 – Orangerie Hall****PLANNING AND MANAGING SUSTAINABLE MEDITERRANEAN CITIES**

Organised in collaboration with UN ENVIRONMENT/MAP - MEDCITIES

**Introduction**

Julien Le Tellier, Environment/MAP

Oriol Barba, MEDCITIES

**City development strategies**

Mariel Baduel, AVITEM - France

Coline Ullusakarya, City of Sousse - Tunisia

City of Malaga - Spain

H 12:00 – 13:30

**PAPER SESSION 1 – Airona Hall  
BUILDING DESIGN AND OPERATION**

**A new interpretation of local materials: innovations, technologies, researches**  
Rosamaria Codispoti, Mediterranean University of Reggio Calabria - Italy

**Building energy and environmental performance of high-rise residential buildings with a newly developed cladding**

Goopyo Hong, Seoul Housing and Communities Corporation - Korea

**Design of integrated sustainability "off-shore" and "off-site". Prototype- mvp "s2\_home" by DEMASI mechanical industries**

Consuelo Nava, Mediterranean University of Reggio Calabria - Italy

**Use of generalised additive models to assess energy efficiency savings in buildings using smart metering data**

Benedetto Grillone, CIMNE - Spain

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**LUNCH**

H 14:30 – 16:00

**THEMATIC SESSION 2 – Orangerie Hall  
ARCHITECTURE, ENERGY EFFICIENCY AND HOUSING IN THE FRAMEWORK OF THE 2030 AGENDA**

Organised in collaboration with:  
Generalitat de Catalunya



Project co-financed by the European  
Regional Development Fund

**Opening**

Agusti Serra, Secretary of Urban Habitat and Territory - Government of Catalonia

**Round table 1**

**Housing and energy transition. Public policies for the development of energy renovation of residential building**

Josep Casas, Deputy General Director of Architecture, Housing Planning and Urban Improvement - Government of Catalonia

Davide Strangis, Executive Director CPMR

**Round table 2**

**Best practices on ER of public housing**

**Innovative planning: the Territorial Sectorial Housing Plan of Catalonia**

Jordi Bosch, Head of Housing and Residential Land Planning Unit, Secretariat for Urban Habitat and Territory, Government of Catalonia

**Description of passive measures**

Begoña Serrano, Director of the Valencian Institute of Building

**SHERPA project pilot building**

Xavier Marti, Sherpa Coordinator, Deputy General Director of Architecture, General Subdirectorate of Housing Planning And Urban Improvement,

Secretary of Urban Habitat and Territory, Government of Catalonia

**The case of Emilia-Romagna building stock**

Fabrizio Tollar, ERVET, Regione Emilia-Romagna - Italy

**Singular buildings: Taradell (Barcelona)**

Gerard Valls, Housing Agency of Catalonia, Secretary of Urban Habitat and Territory, Government of Catalonia

H 14:30 – 16:00

**THEMATIC SESSION 3A – Pettirosso Hall**  
**ENERGY EFFICIENCY IN PUBLIC BUILDINGS: OPPORTUNITIES FOR ITALY IN RELATION TO THE NEW EUROPEAN DIRECTIVE**

Organised within the Interreg Med MEDNICE horizontal project in collaboration with Energy Cities and CMCC - **INVITATION ONLY EVENT**

Moderator: Jean-Pierre Vallar, Energy Cities

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H 14:30 – 16:00

**PAPER SESSION 2 – Airone Hall**  
**DECISION MAKING AND EVALUATION TOOLS**

**Multi-criteria decision support system for urban energy group planning and decision-making activities**

Sara Torabi Moghadam, Polytechnic of Turin – Italy

**Felicity – 3D webtool for optimising the sustainability quality of the built environment**

Paul Mittermeier, Felicity – Germany

**The Protocollo ITACA assessment system at urban scale**

Paolo Luccattini, Luca Marzi, Tuscany Region, University of Florence - Italy

**Eco-efficiency assessment of administrative divisions in 42 countries based on environmental impact and gross regional product**

Junya Yamasaki, Keio University – Japan

**Comparative analysis for the evaluation of sustainable mobility in urban-scale environmental certification**

Giusi Mercurio, University of Calabria – Italy

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**COFFEE BREAK**

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H 16:30 – 18:00

**THEMATIC SESSION 3B – Pettirosso Hall**  
**ENERGY EFFICIENCY IN PUBLIC BUILDINGS: OPPORTUNITIES FOR ITALY IN RELATION TO THE NEW EUROPEAN DIRECTIVE**

Organised within the Interreg Med MEDNICE horizontal project in collaboration with Energy Cities and CMCC - **INVITATION ONLY EVENT**

Moderator: Jean-Pierre Vallar, Energy Cities

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H 16:30 – 18:00

**THEMATIC SESSION 4 – Orangerie Hall**  
**CESBA NEIGHBOURHOOD AWARD**

Organised in collaboration with: CESBA MED

Moderator: Markus Berchtold, CESBA

H 16:30 – 18:00

**PAPER SESSION 3 – Airone Hall  
EDUCATION AND TRAINING**



**Water World: Architecture Design Proposals Address Climate Change and Rising Sea Levels**

Theodore Sawruk, University of Hartford - USA

**Innovative technological features in training methods for sustainable architecture design**

Francesca Giglio, Mediterranean University of Reggio Calabria - Italy

**The Rural Making Lab: Tactic of Social, Cultural and Sustainable Innovation for the Inner Areas of Calabria**

Giuseppe Mangano, University of Calabria - Pensando Meridiano Association - Italy

**Living in the Clouds: Sustainable Pencil Towers for Hartford, Connecticut**

Theodore Sawruk, University of Hartford - USA

**FRIDAY 17.05.19**

H 9:30 – 11:00

**THEMATIC SESSION 5 – Orangerie Hall  
THE CESBA ASSESSMENT SYSTEM FOR MEASURING THE SUSTAINABILITY OF NEIGHBOURHOODS**

Organised in collaboration with: CESBA MED: Sustainable Cities, Interreg MED project

Moderator: Markus Berchtold, CESBA

**Introduction to the CESBA Assessment system**

Andrea Moro, iiSBE Italia - Italy

**Examples of application of the CESBA assessment system**

Judith Casas, EnvirobatBDM - France

**The CESBA assessment system in policy instruments**

Xavier Martí, Generalitat de Catalunya - Spain, Catalonia

H 9:30 – 11:00

**PAPER SESSION 4 – Airone Hall  
POLICIES AND PROGRAMS**

**Induced impacts from the building and transportation sectors as a means to achieve environmental goals**

John Erik Anderson, German Aerospace Center - Germany

**Working on value chains for sustainable buildings in Calabria: the approach of the regional Pole of Innovation Green HoMe**

Giuseppe Rossi, Green HoMe scarl - Italy

**The sustainable schedule as a business model**

Iván Cerda Zuñiga, SBE - Chile

**Smart specialization strategy Calabria**

Menotti Lucchetta, Calabria Region, Italy

**Sustainable building program of the Calabria region. First results**

Giovanna Petrunaro, Calabria Region – Italy

## COFFEE BREAK

H 11:30 – 13:00

### THEMATIC SESSION 6 – Orangerie Hall THE EU FRAMEWORK OF CORE SUSTAINABILITY INDICATORS LEVEL(S) AND THE PUBLIC POLICY INSTRUMENTS

Organised in collaboration with:  
European Commission, DG Environment, Sustainable Production, Products and  
Consumption

Moderator: Andrea Moro, iiSBE Italia

#### The Level(s) initiative

Josefina Lindblom, DG Environment

#### Assessment systems in public policy instruments

Giuseppe Iiritano, ITACA - Italy

Paul Mittermeier, BnB – BnK - Germany

Judith Cazas, EnvirobatBDM - France

H 11:30 – 13:00

### PAPER SESSION 5 – Airone Hall SUSTAINABLE NEIGHBORHOODS AND CITIES

#### Rebuilding a community for sustainability and resilience

Ann Edminster, Design AVENues LLC - USA

#### Effects of urban morphology on outdoor thermal comfort. A microclimate

#### parameterization of housing blocks in the euro-Mediterranean context

Carmela Apreda, Regional Models and geo-Hydrological Impacts, CMCC - Italy

#### Possibility of applying features of Edo-period buildings and cities to modern approach to sustainability in Japan

Kisa Fujiwara, Utsunomiya University - Japan

#### Sustainability and resilience in the southern outskirts of Reggio Calabria. Strategies and projects for soil recycle and management.

Alessia Leuzzo, University of Studies Mediterranea of Reggio Calabria - Italy

## LUNCH

H 14:00 – 15:30

### THEMATIC SESSION 7 – Orangerie Hall EFFICIENT BUILDINGS IN THE MEDITERRANEAN

Organised in collaboration with: MEDNICE

Moderator: Eugenio Sini, CMCC - MEDNICE

#### EduFootprint: efficiency by reducing the environmental footprint in public school buildings

Antonio Zonta, Provincia di Treviso - Italy

#### SHERPA: energy efficient public buildings

Xavier Marti, Generalitat de Catalunya - Spain, Catalonia

#### ENERJ: energy efficiency in municipal building stock through multi-level governance approach

Christos Papantos, ANATOLIKI S.A - Greece

**CESBA MED: tools and methodologies for sustainable neighbourhoods**

Francesca Bena, City of Torino - Italy

**PrioritEE: prioritizing energy efficiency measures in public building**

Monica Salvia, CNR-IMAA - Italy

**TEESCHOOLS: energy efficiency in Mediterranean schools**

Rovena Preka, ENEA - Italy

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H 14:00 – 15:30

**PAPER SESSION 6 – Airone Hall**

**SUSTAINABLE NEIGHBORHOODS AND CITIES**

**Mapping trees in European cities with Urban Atlas under consideration of natural vegetation formations**

Ulrich Schumacher, Leibniz Institute of Ecological Urban and Regional Development - Germany

**Carbon Neutral City with COP21 in Korea**

Sungwoo Shin, International Sustainability Council (ISC), Korea

**Energy Efficiency as a Transdisciplinary Concept: research and applications**

Pinar Mengüç, Özyeğin Üniversitesi - Turkey

**Cost-effective structural planning of the apartment for flexibility and durability**

Jiyeon Kang, Seoul Housing & Communities Corporation, Korea

**Self-Sovereign Identity in the Blockchain and its application for Smart Cities**

Alex Puig, Caelum Labs - Spain

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H 14:00 – 15:30

**PAPER SESSION 7 – Pettrosso Hall**

**ASSESSMENT METHODS AND TOOLS – BUILDING SCALE**

**BuildDOP: one single tool to evaluate energy, environmental impact and costs**

Carlotta Dotzani, Ulrich Klammsteiner, Agenzia per l'Energia Alto Adige-CasaClima - Italy

**Analysis of the discrepancy between estimated energy demand and real energy consumption of buildings**

Svenja Carrigan, Technische Universität Kaiserslautern - Germany

**Remarks on Application of Building Physics for Climate Change Mitigation**

Jan Tywoniak, Czech Technical University in Prague – Czech Republic

**Participatory Guarantee Systems in building certification**

Viviane Hamon, EnvirobatBDM - France

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**COFFEE BREAK**

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H 16:00 – 17:30

## THEMATIC SESSION 8 – Orangerie Hall BUILT ENVIRONMENT AND CLIMATE CHANGES IN THE MEDITERRANEAN



Organised in collaboration with:  
CMCC Centro Euro-Mediterraneo sui Cambiamenti Climatici  
Moderator: Eugenio Sini, CMCC - MEDNICE

### Round table with:

Paola Mercogliano, CMCC – Italy  
Marina Rigillo, University Federico II Naples - Italy  
Valeria D'Ambrosio, University Federico II Naples - Italy  
Grazia Brunetta, RC3 – Politechnic of Turin - Italy  
Gabriele Alitto, Calabria Region - Italy

H 16:00 – 17:30

## PAPER SESSION 8 – Airone Hall BUILDING DESIGN AND OPERATION

**Energy efficiency measures uncoupled from human perception: the control of solar shading systems in residential buildings**

Francesco Nicoletti, University of Calabria - Italy

**Architectural quality and typological flexibility: the role of buffer spaces in warm climates buildings. An application in a steel and hemp construction system**

Roberta Lucente, University of Calabria - Italy

**Experimental results on the thermal properties of reflective materials for building insulation applications**

Roberto Bruno, University of Calabria - Italy

**The role of thermal inertia in wooden buildings**

Piero Bevilacqua, University of Calabria - Italy

H 16:00 – 17:30

## PAPER SESSION 9 – Pettirosso Hall ASSESSMENT METHODS AND TOOLS – BUILDING SCALE

**Ontology-based cost estimation for construction projects**

Jaehyun Choi, Korea University of Technology and Education - Korea

**Smoothing out the interaction among BIM, sustainability rating systems and minimum environmental criteria**

Floriana Calise, 3TI Progetti Italia SpA - Italy

**Itaca-food a model for the sustainability assessment of food process buildings**

Francesco Barreca, Mediterranean University of Reggio Calabria - Italy

**Dry construction systems for sustainable design: issues and perspectives for the use of dry construction systems in the Mediterranean context**

Laura Greco, University of Calabria - Italy

**Maintenance and assessment of environmental sustainability in buildings: a possible synergy between present and future**

Maria Azzalin, Mediterranean University of Reggio Calabria - Italy

H 17:30 – 18:00

## CLOSING CEREMONY – Orangerie Hall

Antonella Rizzo, Calabria Regional Councilor for Environment - Italy