



SBE19
SCILLA

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

PROGRAM

Organizers



POR Calabria
2014-2020
Fondo FESR
il futuro è un lavoro quotidiano



UNIONE EUROPEA
FONDO STRUTTURALE REGIONALE DI INVESTIMENTO EUROPEO



REPUBBLICA ITALIANA



REGIONE CALABRIA



Promoters



Generalitat
de Catalunya



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

Marie Baduel, AVITEM - France

Coline Ulusakarya, 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

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 Subdirector of Housing Planning And Urban Improvement,

Secretary of Urban Habitat and Territory, Government of Catalonia

The case of Emilia-Romagna building stock

Fabrizio Tollari, 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

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

COFFEE BREAK

H 16:30 – 18:00

THEMATIC SESSION 3B – Pettirosso Hall
**ENERGY EFFICIENCY IN PUBLIC BUILDINGS: OPPORTUNITIES FOR ITALY IN
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Moderator: Jean-Pierre Vallar, Energy Cities

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 Salvía, CNR-IMAA - Italy

TEESCHOOLS: energy efficiency in Mediterranean schools

Rovena Preka, ENEA - Italy

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

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

COFFEE BREAK

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: Paola Mercogliano, CMCC - Italy

Round table with:

Martino Milardi, Mediterranean University of Reggio Calabria - 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