



SBE19 – SUSTAINABLE BUILT ENVIRONMENT CONFERENCE

4-5 SEPTEMBER 2019
MILAN - ITALY



WEDNESDAY, 04 September
2019 MORNING

"De Donato" conference room

Plenary session	09:00	Registration and welcoming				
	09:30	SBE conferences			Nils Larsson (IISBE) Andrea Moro (IISBE Italia)	Keynote speakers
	11:00	Coffee break				
	11:30	Where are we about Paris Agreement goals?			Julien Hans (CSTB) Eugenio Morello, Eleonora Perotto, Stefano Caserini (Politecnico di Milano)	Keynote speakers
-	13:00	Lunch				

WEDNESDAY, 04 September
2019 AFTERNOON

STREAM 1 ("De Donato" conference room)

STREAM 2 ("Beltrami" conference room)

Technical Sessions	STREAM 1 ("De Donato" conference room)			STREAM 2 ("Beltrami" conference room)		
	Time	Topic	Speaker	Time	Topic	Speaker
		Track 7 Integration of renewable energy at building and small urban area scales	Lorenzo Pagliano Chairman		Track 9 Cost, financing and taxation for high performance + Economic and social externalities	Marzia Morena / Angela Pavesi / Giulia Pesaro Chairman
	14:00	Technical and economic assessment of a battery storage system for a nZEB in the Mediterranean climate	Lorenzo Pagliano Speaker	14:00	Evolution of urban hierarchies over time: The role of agglomeration economies	Roberta Capello Speaker
	14:15	Smart envelope and climate context	Martino Milardi Speaker	14:15	Functional income distribution, agglomeration and space: and the winner is ... An analysis on the Italian urban system	Roberto Camagni Speaker
	14:30	Present and future potential of natural night ventilation in nZEBs	Silvia Erba Speaker	14:30	Who's right, Weber or Glaeser?	Andrea Caragliu Speaker
		Track 2 Resource efficiency at the urban and building level	Giovanni Lonati / Eugenio Morello Chairman	14:45	Income inequalities and urbanization: what impact on subjective wellbeing?	Giovanni Perucca Speaker
	14:45	Impact of vehicular emissions in an urban area of the Po valley by microscale simulation with the GRAL dispersion model	Sara Fabbi Speaker	15:00	The evolution in planning and designing new corporate headquarters in Milan: Perspectives for urban resilience	Chiara Tagliaro Speaker
	15:00	Evaluation of the inhaled dose across different microenvironments	Francesca Borghi Speaker	15:15	Does Sustainability Affect Real Estate Market Values? Empirical Evidence from the Office Buildings Market in Milan (Italy)	Alessia Mangialardo Speaker
	15:15	Bioclimatic potential of European locations: GIS supported study of proposed passive building design strategies	Luka Pajek Speaker	15:30	Real estate market values and land revenue analysis in the metropolitan city of Milan	Liala Baiardi Speaker
	15:30	Selection of key performance indicators for built environment energy efficiency towards sustainable urban development of Turin, Italy	Chiara Genta Speaker	15:45	Comparison of the real estate market values and revenue in the City of Bari: a new approach based on geolocalized differentials	Vittorio Nicolardi Speaker
	15:45	Strategies for the sustainable reindustrialization of brownfields	Elena Sezenna Speaker			
	16:00	Coffee break				
	16:30	Vapor intrusion evaluation for redevelopment of former industrial facilities	Elena Sezenna Speaker	16:30	Smart Cities and enabling technologies: influences on urban facility management services	Nazly Atta Speaker
	16:45	Enhanced air quality modelling through AUSTAL2000 model in Milan urban area	Giovanni Lonati Speaker	16:45	Funding and Expenditure in Italian Metropolitan Cities. Analysis, Weakness and Suggestions	Francesco Losurdo Speaker
	17:00	Mobility management at Politecnico di Milano	Giada Messori Speaker	17:00	The social manager as driver of social innovation and of inclusive growth in the regeneration of built environment	Genny Cia Speaker
	17:15	Assessment of indoor VOCs concentrations in a case-study of residential buildings	Sabrina Rovelli Speaker	17:15	Collective Residential Spaces in Sustainability Development: Turkish Housing Units within Co-Living Understanding	Cem Ataman Speaker
	17:30	End of the first day of the conference				

THURSDAY, 05 September 2019 MORNING										
STREAM 1 ("De Donato" conference room)					STREAM 2 ("Beltrami" conference room)					
Technical Sessions	Track 5 Methods, tools and certification			Monica Lavagna / Sonia Lupica Spagnolo	Chairman	Track 3 Innovation in materials, products and systems;			Mariapia Pedferri	Chairman
	09:30	Design optimization of micro-nebulizers for urban climate mitigation: experimental investigation of the role of injections density		Elisa Di Giuseppe	Speaker	09:30	Chameleon-Building		Mariateresa Mandaglio	Speaker
	09:45	Architectural design for optimised performance supported by aerospace value assessment methods		Paul Michael Pelken	Speaker	09:45	Thermal performance evaluation of a low-cost housing ceiling prototype made with gypsum and sisal fiber panels		Carvalho Fernandez	Speaker
	10:00	Integrating environmental sustainability indicators in BIM-based product datasheets		Martina Signorini	Speaker	10:00	Progresses in prevention of corrosion in concrete		Fabio Bolzoni	Speaker
	10:15	LCA and LCC as decision-making tools for a "sustainable circular building renovation process"		Serena Giorgi	Speaker	10:15	Seawater and stainless steel bars for sustainable reinforced concrete structures		Federica Lollini	Speaker
	10:30	Long - Term Renovation Strategies, Energy Voluntary Certification Scheme and Building Renovation Passport: an overview on Energy Performance Certification tools for the European Building stock		Marta Maria Sesana	Speaker	Track 4 Environmentally efficient materials and products, and sustainable use of materials;			Giovanni Dotelli/ Ilaria Oberti/ Alessandro Rogora	Chairman
	10:45	Plant maintenance criticality in hospital facilities: an "evidence" based approach		Mario Dejaco	Speaker	10:30	Life Cycle Assessment (LCA) analysis of renders and paints for the restoration of historical buildings		Alessandra Bonoli	Speaker
	11:00	Assessing the impact of selective demolition techniques on C&D waste management		Federica Carollo	Speaker	10:45	Toilet paper recovery from municipal wastewater and application in building sector		Giulia Cipolletta	Speaker
	11:15	Coffe break								
	Track 6 Renovation and performance upgrading of buildings and infrastructure			Cinzia Talamo	Chairman	11:45	An overview on contemporary rammed earth buildings: technological advances in production, construction and material characterization		Giada Giuffrida	Speaker
	11:45	A decision-making process for resilience assessment in adaptive reuse		Cristina Cecchini	Speaker	12:00	Thermo-hygrometric behavior of hempcrete walls for sustainable building construction in the Mediterranean Area		Vincenza Luprano	Speaker
	12:00	A 3D platform for the monitoring of the energy consumption of building assets		Cristina Cecchini	Speaker	12:15	Rammed Earth stabilised with waste materials: a sustainable and resistant solution		Giovanni Dotelli	Speaker
	12:15	Occupant perception of Spectral light content variations due to glazing type and internal finish selection		Jaka Potocnik	Speaker	12:30	Environmental sustainability of a new construction and retrofitted vernacular building in the Liguria region		Giovanni Dotelli	Speaker
	12:30	Environmental consequences of refurbishment vs. demolition and reconstruction: a comparative life cycle assessment of an Italian case study		Francesco Pittau	Speaker	12:45	Comparative evaluations of sustainability, durability and resilience of external envelopes for environmentally efficient buildings		Maurizio Nicolella	Speaker
12:45	Urban Heat Island (UHI) risk maps as innovative tool for urban regeneration strategies. The case of Parma		Patrizia Rota	Speaker	13:00	TiO ₂ containing coatings for construction materials - photocatalytic and optical-radiative properties		Mariapia Pedferri	Speaker	
13:00	Decision support tool for the retrofit of existing facades: an LCC-baded proposal to guide technological choices in the early design stage		Elena Seghezzi	Speaker						
-	13:15	Lunch								
THURSDAY, 05 September 2019 AFTERNOON										
STREAM 1 (aula De Donato)					STREAM 2 (aula Beltrami)					
Technical Sessions	14:00	Analysis of the solar potential of urban public areas for the installation of integrated photovoltaic systems		Rossana Paparella	Speaker	Track 10 Training and education to promote adoption of sustainable approaches			Gabriele Masera/ Tiziana Poli	Chairman
	14:15	Rehabilitation of public housing buildings in a life cycle perspective		Luca Guardigli	Speaker	14:00	Localizing the SDGs through tailored-based training solutions targeting students and academics		Carol Maione	Speaker
	Track 8 Issues related to zero and nearly-zero operating and lifecycle emission performance			Marco Imperadori / Livio Mazzarella	Chairman	14:15	The ASA (Approccio Sostenibile dell'Abitare) App. A Sustainable Housing Approach Tool to Raise Awareness in the Housing Field		Michela Toni	Speaker
	14:30	Active House and user-friendly visualization of sensors' monitored data: VELUXlab, a real cognitive and smart NZEBuilding prototype		Federica Brunone	Speaker	Track 11 ICT for a Sustainable process management			Fulvio Re Cecconi / Alberto Pavan	Chairman
	14:45	NZEB schools: global sensitivity analysis to optimize design features of school buildings		Vincenzo Di Naso	Speaker	14:30	BIMReL a new BIM object library using Construction Product Regulation attributes (CPR 350/11; ZA annex)		Alberto Pavan	Speaker
	15:00	Use of 3D tessellation to optimise visual comfort and energy performance in buildings with curtain wall facades		Gabriele Masera	Speaker	14:45	Product data management for sustainability: an interoperable approach for sharing product data in a BIM environment		Sonia Lupica Spagnolo	Speaker
	Track 1 Relevant policies, programs regulations and standards			Stefano Caserini	Chairman	15:00	Sustainability certification of construction products through BIM		Antonino Mannino	Speaker
	15:15	Built Cultural heritage and energy efficiency at regional scale: the case of Sicily region, pros and cons of an innovative experience		Alessia Buda	Speaker	15:15	Industry 4.0 for a Proactive Maintenance processes development within FM services		Cinzia Talamo	Speaker
	15:30	Green corridors and exterior common areas, enhancing connectivity in Athens Web, Greece		Nerantzia-Julia Tzortzi-Georgi	Speaker	15:30	Energy and comfort management of the educational spaces through IoT network for IAQ assessment in the eLUX lab		Fulvio Re Cecconi	Speaker
	15:45	Examining the opportunities for nature-based solutions at the Municipality of Piraeus		Nerantzia-Julia Tzortzi-Georgi	Speaker	15:45	"A multi-objective procedure for the optimisation of glazed gridshells in the early design stage under structural and energy-based criteria"		Tommaso Pagnacco	Speaker
16:00	Integration of urban agriculture in public areas. The case of the ex military camp "Karatasiou" in Salonica		Nerantzia-Julia Tzortzi-Georgi	Speaker						
-	16:15	Coffee break								
Conclusive plenary session	16:45	Thesis award presentation								
	17:15	Results from the 11 streams' sessions: a new Mediterranean Research Roadmap for Sustainable Built Environment?								
	18:30	End of the conference								