

16th December

08:00	Congress Participants Reception Reception Area
09:00-09:45	Opening Ceremony Sunrise Auditorium
09:45-10:30	Plenary Session: Urban Planning Luís Valente de Oliveira Sunrise Auditorium
10:30-11:00	Coffee Break
11:00-13:00	Parallel Sessions
13:00-14:30	Lunch
14:30-16:30	Parallel Sessions
16:30-17:00	Coffee Break
17:00-18:40	Parallel Sessions
19:30	Welcome reception Instituto do Vinho, do Bordado e do Artesanato da Madeira (IVBAM) <i>The meeting point for the Welcome Reception is the Vidamar Hotel Entrance at 19.00h.</i>

17th December

09:00-11:00	Parallel Sessions
11:00-11:30	Coffee Break
11:30-12:15	Plenary Session: Breaking down technical barriers to trade in Europe for construction products. A state-of-the-art. José Vasconcelos Paiva Sunrise Auditorium
12:15-13:00	Plenary Session: The Project Power House Nearly-Zero Energy Challenge in Social Housing Sector of Europe Sorcha Edwards Sunrise Auditorium
13:00-14:30	Lunch
	Free Afternoon / City Tour <i>The meeting point for the City Tour is the Vidamar Hotel Entrance at 14.30h.</i>

18th December

09:00-11:00	Parallel Sessions
11:00-11:30	Coffee Break
11:30-12:30	Plenary Session: Sustainable Building: Two Italian Experiences Antonio Frattari Plenary Session: Theory and Design, Practice and Case Peter Schmid Sunrise Auditorium
12:30-14:00	Lunch
14:00-16:00	Parallel Sessions
16:00-16:30	Coffee Break
16:30-18:50	Parallel Sessions
20:30	Congress Dinner <i>The meeting point for the Congress Dinner is the Vidamar Hotel Entrance at 19.30h.</i>

19th December

09:00-10:40	Parallel Sessions
10:40-11:10	Plenary Session: Expanded Insulation Corkboard - Sustainable Solution to the World Insulation Carlos Manuel Silva Sunrise Auditorium
11:10-11:30	Closing Ceremony Sunrise Auditorium
11:30-12:30	Farewell Cocktail

20th December

09:00-17:30	Post-Congress Tour <i>The meeting point for the Post-Congress Tour is the Vidamar Hotel Entrance at 8.45h.</i>
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11:00-13:00

Urban Planning (Applied social sciences in architecture and urbanism; Risk assessment)		
	Room: Lagoon I	
Chair ID	Igor Castro	
11h00m-11h20m	173	SHANTYTOWNS, SLUMS AND SUSTAINABLE CONSTRUCTION: LAW AND POLICY CONSIDERATIONS Colin Crawford, Edésio Fernandes, Becky L. Jacobs
11h20m-11h40m	214	CONTRIBUTION OF THE SOCIAL SCIENCES IN THE TRANSFORMATION OF INFORMAL COMMUNITIES Sofia Ornelas Neves, Pedro Rodrigues, Miguel Amado
11h40m-12h00m	166	CRIME RISK ASSESSMENT IN RESIDENTIAL BUILDINGS: OPENINGS Giorgio Agarbati, Marco D'Orazio, Ufuk Yazgan
12h00m-12h20m	178	EVALUATION OF FIRE RISK IN URBAN SPACES – PROPOSAL METHODOLOGY FOR ANALYSIS AND BUILDING MAINTENANCE Miguel Chichorro Gonçalves, A. Correia
12h20m-12h40m	334	SEISMIC SAFETY OF URBAN CENTERS. EVALUATION OF THE VULNERABILITY FOR THE EXISTING BUILDING HERITAGE. Grazia Lombardo, C. Cicero

Economics, Financing and Management (Construction management; Housing markets)		
	Room: Lagoon II	
ID	Paulo Amado-Mendes	
Chair		
11h00m-11h20m	148	THE ROLE OF THE CLIENT IN DRIVING INNOVATION IN TURKISH HOUSING SECTOR: STAKEHOLDERS' PERSPECTIVE Nida Kilinc, Gozde Basak Ozturk, Ibrahim Yitmen
11h20m-11h40m	298	PERFORMANCE SELF-ASSESSMENT AND SUSTAINABILITY IN SMES BUILDERS Rosário Oliveira, Vítor Abrantes
11h40m-12h00m	459	ATTITUDES OF CIVIL ENGINEERING STUDENTS TOWARDS SUSTAINABILITY Adnan Enshassi, Mosab Al Hindi
12h00m-12h20m	455	PREDICTION OF CONSTRUCTION LABOR PRODUCTIVITY IN EGYPT Hesham Abdel-khalek, Remon Fayek Aziz, Khaled Mahmoud El-Gohary

12h20m-12h40m	363	THE EXCEPTION AND THE RULE. FORMS OF URBAN RENEWAL BETWEEN DEMOLITION, RECONSTRUCTION AND RE-CYCLE INTERVENTIONS Micelli Ezio, Picchiolotto Elena
Building Design (Design for flexibility and adaptation)		
	Room: Lagoon III	
	Chair ID	Nuno Biga
11h00m-11h20m	154	SOCIAL HOUSING IN MILAN: INNOVATION OF TYPOLOGIES AND NEW USERS Marta Ferretti, Francesca Scrigna
11h20m-11h40m	232	THE AGE OF INHABITANTS AND THE AGE OF BUILDINGS AS A GUIDE FOR THE ARCHITECTURE DESIGN Jacek Walenty Wlodarczyk, Anna Marta Wlodarczyk
11h40m-12h00m	370	LOW COST ADAPTIVE HOUSING MODEL Inês Ramalhete, Miguel P. Amado, Hugo Farias
12h00m-12h20m	389	FRAMEWORK FOR THERMAL PERFORMANCE RESILIENCE ASSESSMENT OF BUILDINGS IN A CHANGING CLIMATE - AN ILLUSTRATIVE STUDY IN LISBON Ricardo Barbosa, Romeu Vicente, Rui Santos
12h20m-12h40m	248	IMPROVING ACCESS AND SERVICES TO DISABLED, VULNERABLE, AND IMPAIRED PEOPLE; IN LINE WITH RISING EXPECTATIONS, IMPROVED LIVING CHOICE AND CONDITIONS Daniel Watson, C. Oltean-Dumbrava, L. Breen

Materials and Building Technology (Innovative materials, products and technologies)		
	Room: Sunset I	
	Chair ID	Carlos Duarte
11h00m-11h20m	170	UT SYSTEM: A STRUCTURAL SYSTEM TO BUILD TALLER URBAN TIMBER HOUSES WITH THE ASPIRED SPACIAL FLEXIBILITY Catarina Silva, Jorge M. Branco, Paulo B. Lourenço
11h20m-11h40m	286	NATURAL HYDRAULIC LIME IN REHABILITATION André Correia, Ana Sofia Santos, Dina Frade

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11h40m-12h00m	326	AN INVESTIGATION INTO THE STRUCTURAL BEHAVIOUR OF CONCRETE REINFORCED WITH POLYPROPYLENE FIBRES. Vighnesh Daas, D.B. Tann, M. Datto
12h00m-12h20m	357	THERMAL PERFORMANCE OF COOL FAÇADES.EVALUATION BY INFRARED THERMOGRAPHY Luís Gonçalves, Luís Matias, Paulina Faria
12h20m-12h40m	378	USE OF STONE IN THE FACEDS OF HIGH-RISE BUILDINGS IN JORDAN Yahia Al Zoubi
Sustainability and Energy efficiency (Energy performance of buildings)		
Room: Sunset II <i>Ana Vaz Sá</i>		
Chair ID		
11h00m-11h20m	175	ENERGY PERFORMANCE EVALUATION OF A PASSIVE HOUSE BUILT TO SCOTTISH BUILDING STANDARDS Julio Bros-Williamson, Jon Stinson, John Currie
11h20m-11h40m	204	METHODOLOGICAL PROPOSAL TO ESTIMATE THE REDUCTION OF ELECTRICAL ENERGY CONSUMPTION DUE TO VOLUNTEER APPLICATION OF RTQ-C Paola Borges, Louise L.B. Lomardo
11h40m-12h00m	205	IMPROVING THE ACCURACY OF THE CALCULATION OF THERMAL CAPACITY OF HEATING SYSTEMS WHEN DESIGNING THE BUILDINGS WITH HIGH ENERGY EFFICIENCY Vladimir G. Gagarin, Alexander Yu. Neklyudov
12h00m-12h20m	210	ACCOUNTING FOR THE THERMAL BRIDGES IN CALCULATING OF HEAT LOSSES THROUGH THE ENCLOSURE STRUCTURES Vladimir Gagarin, Vladimir V. Kozlov, Alexander Yu. Neklyudov
12h20m-12h40m	220	ENERGY PERFORMANCE OF A SCHOOL BUILDING WITH PHASE CHANGE MATERIALS António Castilho, Ana Vaz Sá, Vitor Abrantes
12h40m-13h00m	354	THERMAL ANALISYS OF AVAILABLE WHITE COATINGS IN BRAZIL Carla Fernanda Barbosa Teixeira, Lucila Chebel Labaki

14:30-16:30		
Urban Planning (Sustainable Planning; Housing Policies)		
Room: Lagoon I <i>João Almeida and Nuno Biga</i>		
Chair ID		
14h30m-14h50m	080	SUSTAINABLE URBAN PLANNING FROM AN ECONOMIC AND FINANCIAL PERSPECTIVE Emília Malcata Rebelo
14h50m-15h10m	384	BENEFITS OF EVALUATION IN SPATIAL PLANNING: LEARNINGS FROM THREE METHODOLOGIES Antonio Ribeiro Amado, Cristina Soares Cavaco
15h10m-15h30m	439	ON MAKING BETTER CITIES Naima Chabbi-Chemrouk, L. Chebaiki, N. Driouèche
15h30m-15h50m	023	URBAN TRENDS IN THE URBAN PERIPHERY AND ISSUES RELATED TO GATED COMMUNITIES Sevin Aksoylu
15h50m-16h10m	429	EVALUATION OF THE USE OF BICYCLES AS A MEAN OF TRANSPORTATION IN THE CITY OF UBERLÂNDIA Isabela Batista Pires, Oscar Luís Ferreira
16h10m-16h30m	065	SOCIO-ECONOMIC FACTORS SHAPING MIXED USE DEVELOPMENTS IN INDIAN CONTEXT: A METHODOLOGY FOR PLANNED DEVELOPMENT Subrata Chattopadhyay, Somreeta Das
TS13 – Smart Cities and Intelligent Buildings TS16 – Streamlined Life Cycle Analysis TS17 – The Role of BIM in Energy Efficient and Sustainable Housing Renovation		
Room: Lagoon II <i>Isabel Pinto-Seppä</i>		
Chair ID		
14h30m-14h50m	053	INTELLIGENT MONITORING ON SMART CITY PERFORMANCE Isabel Pinto-Seppä, Miimu Airaksinen, Hannele Ahvenniemi, Johanna Kallio, Juhani Latvakoski, Kalevi Piira
14h50m-15h10m	059	SIMULATION MODEL FOR ENVIRONMENTALLY EFFICIENT DISTRICTS IN GREATER URBAN AREAS Petr Hradil, Miimu Airaksinen, Isabel Pinto-Seppä
15h10m-15h30m	433	ICT ROAD MAP FOR SUPPORTING ENERGY SYSTEMS IN SMART CITIES Mari Sepponen, Bruno Fiès, Raúl García-Castro

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15h30m-15h50m	129	A PROTOTYPICAL TOOL FOR THE OPTIMISATION OF ENERGY PRODUCTION AND CONSUMPTION AT NEIGHBOURHOOD LEVEL Sergio Leal, Max Bloechle, Branislav Iglar, Florian Judex
15h50m-16h10m	137	EXPLOITING BIM IN ENERGY EFFICIENT DOMESTIC RETROFIT: EVALUATION OF BENEFITS AND BARRIERS Elaheh Gholami, Arto Kiviniemi, Tuba Kocaturk, Steve Sharples
16h10m-16h30m	337	BIM IN THE RETROFIT OF SOCIAL HOUSING FOR ENERGY EFFICIENCY Fernanda Justin Chaves, Jeferson Shin-Iti Shigaki, Julie Comlay, Patrícia Tzortzopoulos, Carlos T. Formoso

Building Design (Low Energy buildings; Sustainable design solutions)

	Chair ID	Room: Lagoon III <i>Miqdad Al-Jawadi</i>
14h30m-14h50m	056	INNOVATIVE TALL BUILDINGS WITH SPHERICAL SHAPE:FUNCTIONAL DESIGN AND BUILDING SERVICES INTEGRATION Angelo Lucchini, Enrico Sergio Mazzucchelli
14h50m-15h10m	103	FACES OF SUSTAINABLE HOUSING Maarten Willems
15h10m-15h30m	371	URBAN REGENERATION: MORE ENERGY, LESS CARBON João Schedel, Miguel Amado
15h30m-15h50m	395	COMPARATIVE STUDY OF ROOF THERMAL BEHAVIOR: CONCRETE SLAB AND GREEN ROOF - BELO HORIZONTE, BRAZIL Fabíola Lodi Accoroni Gonçalves, Maria Cristina Ramos de Carvalho, Grace Cristina Roel Gutierrez

14:30-16:30

Materials and Building Technology (Innovative materials, products and technologies)

	Chair ID	Room: Sunset I <i>Luis Godinho</i>
14h30m-14h50m	407	"QUICKBUILD" A CONCEPT FOR SUSTAINABLE MODULAR CONSTRUCTION Filipe Bandeira, António Tadeu, Julieta António

14h50m-15h10m	451	CREATE JOBS, TRANSFER SKILLS AND HOUSE THE NATION David George Sassman
15h10m-15h30m	456	OPERATING EXPERIENCE AND TECHNICAL DEVELOPMENTS OF AN INNOVATIVE INTEGRATED SOLAR COLLECTOR Christian Cristofari, Rosita Norvaišienė, Jean Louis Canaletti
15h30m-15h50m	423	HOW COMPLEX GEOMETRY AND INDUSTRIAL PROCESS COME TOGETHER: A CASE STUDY OF THE "PALAZZO ITALIA EXPO 2015", MILANO Emilio Pizzi, Pierpaolo Ruttico
15h50m-16h10m	193	A PROPOSAL FOR KNOWLEDGE MANAGEMENT, COOPERATION AND TRAINING IN EARTHQUAKE STRUCTURAL REHABILITATION Alfredo Soeiro

Sustainability and Energy efficiency (Energy performance of buildings)

	Chair ID	Room: Sunset II <i>Antonio Frattari</i>
14h30m-14h50m	233	WINDOWS WALL RATIO IN BUILDINGS IN TERMS OF ENERGY PERFORMANCE ASSESSMENT OF RATE AND A CASE STUDY (TURKEY, ESKISEHIR) Hakan Ünalán, Emrah Gokaltun
14h50m-15h10m	273	IMPROVING THE ENERGY PERFORMANCE OF BUILDINGS WITH NON-CONVENTIONAL LIGHTING SYSTEM Ary Rodrigues Alves Netto, Douglas Barreto, Maria Akutsu
15h10m-15h30m	290	ANALYSING THE BUILDING PERFORMANCE OF HEALTH BUILDINGS ENVELOPE Romeu Martins Louro, Ana Ferreira Ramos, J.A.R. Mendes da Silva
15h30m-15h50m	314	ENERGETIC EFFICIENCY ON RESIDENTIAL BUILDINGS REHABILITATION Rita Sousa Martins, Miguel Amado
15h50m-16h10m	432	ENERGY SAVING IN VISUAL AND THERMAL COMFORT CONDITIONS BY SMART TECHNOLOGY: FARSYSTEM CASE STUDY Michela Chiogna, L. Podestà, A. Frattari

17:00-18:40

		TS12 – Building acoustics for newer materials
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	Chair ID	Room: Lagoon I <i>Julieta António</i>
17h00m-17h20m	008	PREDICTING SOUND INSULATION IN LIGHTWEIGHT BUILDING SYSTEMS USING EN 12354 Eddy Gerretsen
17h20m-17h40m	207	SURVEY OF INTERNATIONAL TALL WOOD BUILDINGS Rebecca Holt, Klas Hagberg, Delphine Bard
17h40m-18h00m	367	ACOUSTIC PERFORMANCE OF CROSS-LAMINATED TIMBER SYSTEM (CLT): IN SITU MEASUREMENTS OF AIRBORNE AND IMPACT SOUND INSULATION FOR DIFFERENT CONFIGURATIONS Luigi Pagnoncelli, Alessia Gadotti, Antonio Frattari, Erica Bazzini, Laura Moran
18h00m-18h20m	406	DYNAMIC PROPERTIES OF A COMPOSITE MADE OF GRANULATED CORK AND RICE HUSK Julieta António, António Tadeu, José Nascimento, Filipe Pedro, Adriano Martins

		Economics, Financing and Management (Construction planning; Housing policies; Financing systems)
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	Chair ID	Room: Lagoon II <i>Nuno Abrantes</i>
17h00m-17h20m	161	SOCIAL HOUSING BY PUBLIC-PRIVATE PARTNERSHIP: A COMPARISON BETWEEN ITALIAN, FRENCH AND U.S. POLICIES Steve Bariselli, Maria Luisa Del Gatto
17h20m-17h40m	162	PROVISION OF AFFORDABLE HOUSING IN NIGERIA: SUCCESSES SO FAR & FUTURE CHALLENGES Julius Ojebode, Kassim Gidado, Noel Painting
17h40m-18h00m	256	SOCIAL HOUSING & MANAGEMENT. REFLECTIONS AND ANALYSIS OF SOCIAL & REAL ESTATE MANAGEMENT OF RESIDENTIAL BUILDINGS Maria Luisa Del Gatto, Marzia Morena
18h00m-18h20m	289	CONTRIBUTIONS TO THE IMPROVEMENT OF THE ENERGY PERFORMANCE OF THE CENTRAL REGION OF PORTUGAL António Magalhães Cardoso, Cristina Reis Tadeu

18h20m-18h40m

186

THE QUALITY IN THE PROCESS OF SELF-BUILDING. ANALYSIS OF THE MOST EFFECTIVE INFORMATION SYSTEMS FOR THE SELF-BUILDERS
Rosa Caponetto, Nancy Caruso

		Building Physics (Acoustics and vibrations; Indoor thermal confort)
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	Chair ID	Room: Lagoon III <i>Isabel Pinto-Seppä</i>
17h00m-17h20m	151	MOISTURE CAPACITY OF LOG HOUSES CAN IMPROVE THE INDOOR CLIMATE CONDITIONS Tuomo Ojanen
17h20m-17h40m	274	THERMAL PERFORMANCE ANALYSIS OF BRAZILIAN CONCRETE WALLS Raquel Diniz Oliveira, Roberta Vieira Gonçalves de Souza, Carolina Tavares de Sousa Viila, Roberto Márcio da Silva
17h40m-18h00m	158	ENERGY AND CARBON EMBODIED IN MICRO-HOMES. TOOLS FOR THE DESIGN OF CONSTRUCTION SYSTEMS Maria Antonia Barucco, Margherita Ferrari, Valentina Manfè
18h00m-18h20m	413	NUMERICAL MODELING OF DIFFUSIVE ACOUSTIC BARRIERS Paulo Amado Mendes, Carlos Prieto Gajardo, Luís Godinho, J. Miguel Barrigón Morillas
18h20m-18h40m	414	ACOUSTIC PERFORMANCE OF MICROPERFORATED MDF PANELS – AN EXPERIMENTAL STUDY Luis Godinho, Ricardo Patraquim, Paulo Amado-Mendes, Ana Neves

		Materials and Building Technology (Materials with incorporated waste)
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	Chair ID	Room: Sunset I <i>Isabel Torres</i>
17h00m-17h20m	018	POTENTIAL AND BARRIERS FOR REUSING LOAD-BEARING BUILDING COMPONENTS IN FINLAND Satu Huuhka, Jani H. Hakanen
17h20m-17h40m	081	INDUSTRIAL RESIDUES OF THE GLASS AND CERAMIC WOOL APPLIED IN CONCRETE Neuza Evangelista, Jorge A. S. Tenório, José R. de Oliveira

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17h40m- 18h00m	155	THE REUSE OF WASTE FOR THE IMPROVEMENT OF ENVIRONMENTAL PROFILE OF BUILDINGS PRODUCTS Marco Migliore, Andrea Campioli, Monica Lavagna, Ilaria Oberti, Giancarlo Paganin, Cinzia Talamo
18h00m- 18h20m	434	USE OF WASTE FROM ORNAMENTAL STONES INDUSTRY FOR MANUFACTURE OF HYDRAULIC FLOOR TILE André Luiz Lopes Toledo, Claudia Costa, Emanoela Freitas, Juliana Souza, Maryane Melo, Sílvia Fernandes
18h20m- 18h40m	409	STUDY OF BINARY MIXTURES OF CLAY AND SLUDGE TREATMENT STATION WATER FOR CERAMIC MATERIAL - BLOCKS Leandro Cavalcanti, Rafaela Rodrigues, André Patriota, Arnaldo Carneiro

		Sustainability and Energy efficiency (Energy performance of buildings; Indoor air and environmental quality)
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Chair
Room: Sunset II
Ana Ramos

17h00m- 17h20m	449	ENERGY PERFORMANCE CERTIFICATION IN LITHUANIAN BUILDING SECTOR Rosita Norvaisiene, Jūratė Karbauskaitė, Patrikas Bruzgevičius
17h20m- 17h40m	039	ASSESSMENT OF VENTILATION IN ELDERLY CARE CENTRES Fábio Cerqueira, Susana Azevedo, Daniel Aelenei, João Carlos Viegas
17h40m- 18h00m	393	INDOOR AIR QUALITY AND THERMAL COMFORT IN AN EDUCATIONAL BUILDING – CASE STUDY Flávio Chaves, Ana C. V. Vieira
18h00m- 18h20m	348	EXPERIMENTAL STUDY ON VENTILATION AND THERMAL PERFORMANCE OF A CERAMIC TILE ROOF WITH VENTED EAVES AND SUB-TILES João Ramos, Luis Almeida

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09:00-11:00		
		Urban Planning (Housing policies)
		Room: Lagoon I
Chair		<i>Raimundo Mendes da Silva</i>
09h00m-09h20m	051	THE CITY OF PORTO AND THE PUBLIC HOUSING.LEARNING FROM DESIGN PRACTICE Nuno Abrantes, Fernando Brandão Alves, Vítor Abrantes
09h20m-09h40m	082	HOUSING POLICY OF SOCIAL INTEREST: SELF MANAGEMENT HOUSING Anicoli Romanini, Marcele S. Martins, Rodrigo Rintzel, Camila B. Zanella
09h40m-10h00m	110	TPOLOGY OF URBAN HOUSEHOLDS AND THEIR TRANSITION FROM INFORMAL TO FORMAL STATUS Isidoro Malaque III, Katharine Bartsch, Peter Scriver
10h00m-10h20m	266	LIBYAN POLICY IN THE FIELD OF PUBLIC HOUSING Ezeddin Mohamed Shawesh
10h20m-10h40m	349	BALANCING COMMUNITY AND GOVERNANCE IN THE CITIES OF FUTURE Mohammed Sabah Al-Shabander, Marwa Hazim Al-Mushhdani
		Building Design (Intelligent Buildings; Computational Methods for Building Design; Building Information Models)
		Room: Lagoon II
Chair		<i>Bruno Marques</i>
ID		
09h00m-09h20m	229	BIM BASED COLLABORATIVE DESIGN TECHNOLOGY FOR COLLECTIVE SELF-ORGANISED HOUSING Ton Damen, Matthew MacDonald, Timo Hartmann, Roberto Di Giulio, Peter Bonsma, Klaus Luig, Rizal Sebastian, Danny Soetanto
09h20m-09h40m	296	SUSTAINABLE WIND CATCHER FOR HOUSES IN HOT DRY AREAS Miqdad Al-Jawadi, Ali Farhan Darwish
09h40m-10h00m	373	STUDY OF A PILOT-SCHOOL FOR A HOT CLIMATE DEVELOPING REGION: EVALUATION BASED ON DYNAMIC SIMULATION PERFORMANCE Bruno Marques, Helena Corvacho, Mário Manaia, António Andresen

10h00m-10h20m	188	BUILDING DESIGN: TECHNICAL STANDARDIZED INFORMATION FOR BIM OBJECTS F. Salvado, M.J. Falcão Silva, P. Couto, A. Vale e Azevedo, A. Manso
10h20m-10h40m	385	INTEGRATED PROJECT DELIVERY AND LEAN CONSTRUCTION FOR A SUSTAINABLE HOUSING POLICY Carlo Zanchetta, Giorgio Garau, Giorgio Croatto, Umberto Turrini
		TS20 - Passive House and Nearly Zero Energy Buildings
		Room: Lagoon III
Chair		<i>Romeu Vicente and Maria Fernanda Rodrigues</i>
ID		
09h00m-09h20m	014	EXPERIMENTAL CONSTRUCTION OF ASIAN NET-ZERO ENERGY HOUSE WITH SMART TECHNOLOGIES Yasushi Ikeda, Hikaru Kobayashi, Toshiharu Ikaga, Hiroaki Nishi
09h20m-09h40m	174	ANALYSIS AND ADAPTABILITY OF HIGH ENERGY EFFICIENCY STANDARDS FOR ENERGY RETROFIT IN PORTUGAL Tiago Rodrigues, Fernanda Rodrigues, Romeu Vicente, Marlene Parada, Rui Oliveira, Ana Alves
09h40m-10h00m	254	SENSITIVITY ANALYSIS OF RTQ-C HOW TO VARIATION THE OFFICE EQUIPMENT LOAD DENSITY AND ABSORPTANCE Mariane Brandalise, Eduardo Grala da Cunha, Larissa Cristina de Oliveira
10h00m-10h20m	285	PASSIVE HOUSES THERMAL AND ENERGY BEHAVIOUR SIMULATION José Figueira, António Figueiredo, Romeu Vicente, Fernanda Rodrigues, Rui Maio
10h20m-10h40m	328	BUILDING ENERGY EFFICIENCY: REVIEW OF BRAZILIAN AND PORTUGUESE REGULATIONS Lisandra Fachinello Krebs, Maria Fernanda Rodrigues, Eduardo Grala da Cunha, Mariane Pinto Brandalise, Jaqueline Peglow, Beatriz Maria Fedrizzi, Antonio César Silveira Baptista da Silva
10h40m-11h00m	027	COMPARISON OF ENERGY CONSUMPTION AND INDOOR ENVIRONMENT IN A PASSIVE HOUSE IN AUTOMATIC AND MANUAL MODES Sandy Halliday, Wayne Butler

Sustainability and Energy efficiency (Sustainable Housing and Construction)		
Room: Sunset I		
Chair ID		
Paulo Mendes		
09h00m-09h20m	035	THE RELATIONSHIP BETWEEN CONSTRUCTION TECHNOLOGIES AND ENVIRONMENTAL IMPACTS Buket Metin, Aslihan Tavil
09h20m-09h40m	048	STEERING OF SUSTAINABLE BUILDING IN PUBLIC BUILDING AND RENOVATION PROJECTS Mirkka Rekola, Tarja Häkkinen, Mia Ala-Juusela
09h40m-10h00m	113	LEAN CONSTRUCTION OF PUBLIC HOUSING PRODUCTION IN HONG KONG: A PROCESS-BASED APPROACH S. Thomas Ng, Weiwu Zou, Kelwin Wong, George Q. Huang
10h00m-10h20m	143	THE SUSTAINABLE REQUALIFICATION OF THE EXISTING SOCIAL HOUSING STOCK IN THE MEDITERRANEAN EUROPEAN COUNTRIES: A COMPARISON BETWEEN ITALY AND SPAIN Dora Francese, N. Mastrangelo, R. Tendero Caballero Caballero, P. Izquierdo Gracia
10h20m-10h40m	181	THE GREEN REGENERATION OF SOCIAL HOUSING IN SOUTH AFRICA Claudia Loggia, D. Bhoora, V. Tramontin, C.Trois
10h40m-11h00m	153	ENERGY AUDIT AND COMFORT EVALUATION OF A SCHOOL BUILDING WITH THE STUDENTS' PARTICIPATION Paola Lassandro, Antonella Tundo
Refurbishment Sustainable and energy-efficient retrofitting		
Room: Sunset II		
Chair ID		
Fausto Freire and Inês Simões		
09h00m-09h20m	045	ENERGY-EFFICIENCY UPGRADES: RESIDENTIAL BUILDINGS FROM THE PERIOD UP TO 1940 IN ZAGREB Iva Muraj
09h20m-09h40m	136	PREASSEMBLED TIMBER PANELS FOR ROOF RETROFIT: A METHOD FOR THE SELECTION OF SUSTAINABLE AND RECYCLED MATERIALS Francesco Pittau, Laura Elisabetta Malighetti, Gabriele Masera, Giuliana Iannaccone

09h40m-10h00m	251	COST AND GREENHOUSE GAS LIFE-CYCLE ANALYSIS OF BUILDING ENVELOPE RETROFIT Carla Rodrigues, Fausto Freire
10h00m-10h20m	252	DOES TYPE OF USE AND OCCUPANCY INFLUENCE THE PERFORMANCE OF BUILDING RETROFIT STRATEGIES? Carla Rodrigues, Fausto Freire
10h20m-10h40m	003	MINIMUM-INVASIVE ENERGY RETROFIT APPROACHES FOR OWNER COMMUNITIES IN MULTY-OCCUPANCY RESIDENTIAL BUILDINGS Georgi Georgiev, Martin Krus

TS04 - Integral Sustainable Housing TS07 - Innovative sustainable coatings		
Room: Sunset III		
Chair ID		
Isabel Torres		
09h00m-09h20m	366	A SOCIALLY SUSTAINABLE DESIGN METHOD FOR HOUSING - RIO GRANDE DO SUL, BRAZIL, AND LISBON, PORTUGAL César Canova, Tânia Ramos, João Pedro Treviso, Isadora Teodoro, Marcos Diligenti
09h20m-09h40m	436	LEARNING FROM BUILDINGS LIVE & WORK IN ECO-EDUCATIONAL COMMUNITY Sally Starbuck, Paul Leech
09h40m-10h00m	212	LONG-TERM CHARACTERIZATION OF AIR LIME MORTARS WITH CERAMIC WASTE Gina Matias, Isabel Torres, Paulina Faria
10h00m-10h20m	245	INFLUENCE OF THE WETTING CONDITIONS OF THE SUBSTRATES IN MORTAR PROPERTIES Isabel Torres, Rosário Veiga, Vasco Freitas

09:00-11:00		
		TS22 – Construction history and constructive systems characterization: Design, construction, rehabilitation and maintenance processes Urban Planning (Smart cities)
		Room: Lagoon I
	Chair ID	<i>Rui Póvoas and Clara Pimenta do Vale</i>
09h00m-09h20m	115	DESIGNING FOR THE FUTURE OF THE CITY Pelín Dursun Cebi, Nilufer Kozikoglu
09h20m-09h40m	196	ENERGY SAVING IN TALL BUILDINGS: FROM URBAN PLANNING REGULATION TO SMART GRID BUILDING SOLUTIONS Valentina Antonucci, Chiara D'Alpaos, Giuliano Marella
09h40m-10h00m	184	AN EARLIER EXAMPLE OF PORTUGUESE CONCRETE PREFABRICATION, THE "TORRE DA BOAVISTA" CONDOMINIUM IN PORTO Clara Pimenta do Vale, Vítor Abrantes
10h00m-10h20m	192	PORTUGUESE "PALLADIANA" TRUSS ROOFS: CONSTRUCTIVE AND STRUCTURAL CHARACTERISTICS. João Sarrazola Martins, António Sousa Gago, Pedro Lopes
10h20m-10h40m	277	THE IMPORTANCE OF THE RESEARCH IN CONSTRUCTION HISTORY FOR THE SAFEGUARD AND VALORIZATION OF THE ARCHITECTURAL HERITAGE. THE EXAMPLE OF THE BOURGEOIS HOUSES OF THE CITY OF PORTO Rui Póvoas, Joaquim Lopes Teixeira
10h40m-11h00m	283	THE HQDIL METHOD TO ASSESS THE SUSTAINABILITY OF AN HISTORIC CENTER. CASE OF MANSOURAH K'BIRA (ALGERIA) Sehili Farida, Chennaoui Youcef
Sustainability and Energy efficiency (Sustainable Housing and Construction)		
		Room: Lagoon II
	Chair ID	<i>Luis Godinho</i>
09h00m-09h20m	323	IMPROVING THE ENERGY PERFORMANCE OF LIGHT STEEL-FRAMED CONSTRUCTION WITH PCM-DRYWALLS IN MEDITERRANEAN CLIMATES Nelson Soares, Adélio R. Gaspar, Paulo Santos, José J. Costa

09h20m-09h40m	201	SIMULATION OF ENERGY DEMAND FOR HEATING AND COOLING SYSTEM IN A SHOPPING CENTRE Katarina Kovacova, Martin Kovac
09h40m-10h00m	282	UPGRADING THE ENERGY EFFICIENCY OF A RESIDENTIAL DWELLING - SUSTAINABLE ENERGY INTERVENTIONS Renato Iovino, Emanuele La Mantia
10h00m-10h20m	450	SUSTAINABLE BUILDING DESIGN AND CONSTRUCTION M. Viswanadham, Sheela Eshwariah
10h20m-10h40m	261	SUSTAINABLE SOCIAL HOUSING Maria Luisa Del Gatto, Giordana Ferri, Angela Silvia Pavesi
10h40m-11h00m	416	THE INFLUENCE OF GREEN ROOF AND NATURAL VENTILATION ON ENVIRONMENTAL COMFORT IN A TROPICAL COUNTRY Carla Matheus, Lucila C. Labaki
Refurbishment (Sustainable and energy-efficient retrofitting; Innovative products and technologies for existing buildings)		
		Lagoon III
	Chair ID	<i>Fátima Farinha</i>
09h00m-09h20m	054	PERFORMANCE MONITORING OF MULTIFUNCTIONAL FAÇADE SYSTEM FOR BUILDING RETROFITTING Kalevi Piira, Wojciech Golebiowski, Henri Biström, Pekka Tuomaala, Adam Rudzinski, Marcin Bukat, Maciej Michajlow, Isabel Pinto-Seppä
09h20m-09h40m	057	FAÇADISM AND CLT TECHNOLOGY: AN INNOVATIVE SYSTEM FOR MASONRY CONSTRUCTION REFURBISHMENT Angelo Lucchini, Enrico Sergio Mazzucchelli, Sara Mangialardo, Margherita Persello
09h40m-10h00m	078	EFFECTS IN AN ATTEMPT OF REGIONAL REVITALIZATION PROJECT THROUGH THE "RENOVATION SCHOOL" Mitsuhiro Tokuda, Shuichi Matsumura, Yoshitugu Shimizu, Yohei Shimada
10h00m-10h20m	255	THE CALCULATION OF THE ENERGY DEMAND [KWH/SQM PER YEAR] FOR A RESIDENTIAL BUILDING UNDER ITALIAN LAW Flavia Fascia, Renato Iovino, Emanuele La Mantia
10h20m-10h40m	391	INHABITING THE WAREHOUSE. SHORTAGES AND SOLUTIONS IN THE RESIDENTIAL REFUNCTIONALIZATION OF PRODUCTIVE BUILDING Valentina Covre

Refurbishment (Building pathologies and diagnostic)		
Room: Sunset I		
Chair ID		
Paulo Mendes		
09h00m-09h20m	042	OLD CONCRETE BUILDING PATHOLOGY - CASE STUDY Maria de Lurdes Belgas da Costa, Jorge M. Mascarenhas, Fernando G. Branco
09h20m-09h40m	106	OLD BUILDINGS CHARACTERISTICS: DESIGNING A TOOL FOR BUILDINGS' APPRAISAL Ana Ferreira Ramos, J. A. R. Mendes da Silva, Isabel Torres, Elisabete Milheiro Santos
09h40m-10h00m	144	IMPROVING COMPONENT INTEGRATION IN BUILDING CONSTRUCTION PROCESS Sara Hadji Rezai, Francis Allard, Charlotte Abelé, Maxime Doya
10h00m-10h20m	169	METHODOLOGY OF STRUCTURAL RELIABILITY ASSESSMENT FOR ENERGY-EFFICIENT RETROFITTING Václav Vimmr, Otto Villatoro
10h20m-10h40m	226	CASA DE LA RAZA: CHRONICLES OF WATER MITIGATION FROM DAMAGE CAUSED BY THE 1989 LOMA PRIETA EARTHQUAKE Francisco Borvice
10h40m-11h00m	265	BEHAVIOR OF BUILDING REHABILITATION: AN EVALUATION SCHEME Catarina Oliveira, Vitor Abrantes, Ana Vaz Sá

TS21 – New business models and innovative tools for future housing development		
Room: Sunset II		
Chair ID		
Roberto Di Giulio		
09h00m-09h20m	047	TECHNOLOGICAL INNOVATION IN SOCIAL HOUSING Massimo Rossetti
09h20m-09h40m	092	CHALLENGES FOR PUBLIC-PRIVATE PARTNERSHIPS IN IMPROVING ENERGY EFFICIENCY OF BUILDING SECTOR Ernesto Antonini, Danila Longo, Valentina Gianfrate, Sergio Copiello

09h40m-10h00m	100	FLEXIBILITY IN HOUSING DESIGN: NEW STRATEGIES TO HINDER THE FUNCTIONAL AND TECHNOLOGICAL OBSOLESCENCE Cristiana Cellucci, Michele Di Sivo
10h00m-10h20m	105	INNOVATIVE MODELS AND STRATEGIES FOR ADAPTING THE BUILT ENVIRONMENT TO CLIMATE CHANGE Andrea Boeri, David Dernie, Jacopo Gaspari
10h20m-10h40m	026	NEW OPPORTUNITIES FOR BUILT ENVIRONMENT REGENERATION; WEB AND DATABASE SYSTEMS FOR THE CREATION OF A COLLECTIVE CLIENT GROUP Paola Piermattei
10h40m-11h00m	071	COLD-FORMED STEEL.A HISTORICAL ANALYSIS IN ORDER TO IDENTIFY NEW BUILDING PROCESSES FOR THE CONSTRUCTION OF SOCIAL HOUSING. Maria Antonia Barucco, Valeria Tatano

TS14 – Energy optimization of buildings envelope		
Room: Sunset III		
Chair ID		
Nuno Simões		
09h00m-09h20m	037	INTEGRATED COST, ENERGY AND ENVIRONMENTAL ASSESSMENT OF INSULATION MATERIALS APPLIED TO A NEW PORTUGUESE REFERENCE BUILDING Seyedeh Shiva Saadatian, Fausto Freire, Nuno Simões
09h20m-09h40m	135	THE OPTIMIZATION OF ENERGY PERFORMANCE ABOUT A COMPONENT IN RELATION TO CLIMATIC CONTEXT Maria Teresa Lucarelli, Caterina C. Musarella
09h40m-10h00m	235	COMPARATIVE LIFE CYCLE ASSESSMENT OF THERMAL BLOCKS Maria Inês Santos, Nuno Simões, António Tadeu, António Nascimento
10h00m-10h20m	308	THE IMPACT OF THE THERMAL INSULATION COST ON THE PROFITABILITY OF ENERGY REHABILITATION OF BUILDINGS Sérgio Fernando Tadeu, António Tadeu, Nuno Simões, Márcio Gonçalves
10h20m-10h40m	309	MULTCRITERIA ANALYSIS OF OCCUPANTS' PERCEPTIONS ON THE BENEFITS OF ENERGY RETROFITTING OF BUILDINGS Sérgio Fernando Tadeu, Carla Rodrigues, António Tadeu, Nuno Simões, Márcio Gonçalves
10h40m-11h00m	324	EXPERIMENTAL SETUP TO EVALUATE THE HEAT TRANSFER THROUGH A VERTICAL STACK OF RECTANGULAR CAVITIES FILLED WITH FREE-FORM PCMS FOR BUILDING APPLICATIONS Nelson Soares, Adélio R. Gaspar, Paulo Santos, José J. Costa

14:00-16:00			
		TS19 – Sustainable and water efficient buildings	
	Chair ID	Room: Lagoon I <i>Armando Silva Afonso and Zuzana Vranayova</i>	
14h00m-14h20m	017	CONTRIBUTIONS TO THE IMPROVEMENT OF GREEN ROOFS IN MEDITERRANEAN CLIMATE, INCLUDING RAINWATER HARVESTING Cristina Monteiro, Cristina S. C. Calheiros, Carla Pimentel-Rodrigues, Armando Silva-Afonso, Paula M. L. Castro	
14h20m-14h40m	021	INTEGRATED GREY WATER MANAGEMENT AT THE BUILDING LEVEL Daniela Kaposztasova, Zuzana Vranayova, Gabriel Markovic, Martina Rysulova	
14h40m-15h00m	024	THE FACILITIES FOR THE PERLOCATION OF PRECIPITATION WATER Gabriel Markovic, Daniela Kaposztásová, Zuzana Vranayová	
15h00m-15h20m	099	RESTORATION OF URBAN ENVIRONMENT BASED ON GREEN ARCHITECTURE THEORIES Zuzana Poórová, Zuzana Vranayová	
15h20m-15h40m	112	FEASIBILITY OF THE WATER CONSERVATION CRITERIA OF THE HIGH ENVIRONMENTAL QUALITY (AQUA), A BRAZILIAN ENVIRONMENTAL LABEL Marcus Campos, Hugo A. Vianna, Gustavo L. Vitalli	
15h40m-16h00m	171	SUSTAINABLE CONSTRUCTION: WATER EFFICIENCY IN HOUSING SECTOR Ana M. Alcaface, Miguel P. Amado	
		Sustainability and Energy efficiency (Renewable Energy in Buildings; Life cycle assessment)	
	Chair ID	Room: Lagoon II <i>Bruno Marques</i>	
14h00m-14h20m	247	USE OF EFFECTIVE METHODS IN SUSTAINABLE DESIGN IN CLUSTER HOUSING - A CASE STUDY IN TRABZON/TURKEY Ayça Araz Ustaömeroğlu	
14h20m-14h40m	301	MODELLING AND PERFORMANCE ANALYSIS OF AN EARTH-TO-AIR HEAT EXCHANGER Paulo Santos, Miguel A. Sousa, José J. Costa	

14h40m-15h00m	452	ANALYSIS ON APPLICABILITY OF NATURAL VENTILATION IN PASSIVE SOLAR HOUSE IN LHASA, CHINA Ming Zhang, Wei Yu, Chenqiu Du, Fanzhi Zeng
15h00m-15h20m	070	IMPACT OF EMBODIED CARBON IN THE LIFE CYCLE OF BUILDINGS ON CLIMATE CHANGE FOR A SUSTAINABLE FUTURE Bulent Unalan, Alberto Celani, Harun Tanrivermis, Mehmet Bulbul, Andrea Ciaramella
15h20m-15h40m	168	COMPARISON OF THE ENVIRONMENTAL, ECONOMIC AND ENERGY PERFORMANCE OF ETICS WITH ICB AND WITH EPS José D. Silvestre, José J. B. C. da Silva, André M. P. Castelo, Jorge de Brito, Manuel D. Pinheiro
15h40m-16h00m	250	HOW DOES RESIDENTIAL LOCATION INFLUENCE THE ENVIRONMENTAL LIFE-CYCLE IMPACTS OF A HOUSEHOLD? Joana Bastos, Stuart Batterman, Fausto Freire
<div></div> <div>Refurbishment (Innovative products and technologies for existing buildings; Preservation and maintenance of the built heritage)</div>		
	Chair ID	Room: Lagoon III <i>Paulo Mendes</i>
14h00m-14h20m	160	THE "TILES OF XXI CENTURY" Jorge Tavares Ribeiro, Carolina Hogan, Luís Santos
14h20m-14h40m	346	INNOVATION SOLUTIONS TO ECO-SMART-HOUSING FOR ELDERLY – WIDER PROJECT Fátima Farinha, Angeliki Fotiadou, Dzenana Bijedic
14h40m-15h00m	347	VERTICAL ADDITION OF AN EXISTING MASONRY BUILDING BY A COLD-FORMED STEEL STRUCTURE Antonio Formisano, Anna Marzo
15h00m-15h20m	463	SUSTAINABLE INSULATION COMPOSITE PLASTERBOARD SOLUTION - ACOUSTIC LABORATORIAL CHARACTERIZATION José Ávila e Sousa, Dulce Carvalho, Paulo Amado-Mendes
15h20m-15h40m	025	SOLUTION OF RISING DAMP WITH VENTILATED AIR CHANNEL FOR THE CHURCH IN GEMERSKÝ JABLONEC Anna Sedláková, Ladislav Ťažký
15h40m-16h00m	031	NEW TYPES OF HOUSING FOR THE BUILT HERITAGE PRESERVATION. RECONSTRUCTION OF THE SMALL CENTERS IN ABRUZZO Alessandra Tosone, Alessandra Bellicoso

TS08 - Assessment, Diagnosis, Energy Efficiency and Refurbishment for Sustainability			
Room: Sunset I			
Chair ID <i>Anabela Paiva and João Lanzinha</i>			
14h00m-14h20m	036	EXPERIMENTAL ASSESSMENT OF IAQ IMPROVEMENT IN NATURALLY VENTILATED EDUCATIONAL BUILDINGS	Manuel Pinto, Ricardo Almeida, Paulo Pinho, Teixeira de Lemos, João Lanzinha
14h20m-14h40m	074	MICRO-GENERATION AND MINI-GENERATION – SUSTAINABLE PRODUCTION AND EFFICIENT USE OF ELECTRICAL ENERGY IN BUILDINGS	Pedro Lourenço, Pedro Sá Furtado
14h40m-15h00m	194	INVESTMENTS AND MAINTENANCE DECISIONS INFLUENCING BUILDING LIFE CYCLE ENERGY CONSUMPTION	Dalibor Vytlačil
15h00m-15h20m	338	THE LOCAL INFLUENCES OF SUSTAINABILITY IN HISTORIC CENTRES FOR BUILDINGS REFURBISHMENT AND FOR LIVING	Rui Oliveira, Jorge Lopes, Maria Isabel Abreu
15h20m-15h40m	376	LIFE CYCLE ASSESSMENT OF SOLAR THERMAL SYSTEMS	Verónica Fernandes, Ricardo Mateus, Luís Bragança, Sandra Silva, Manuela Almeida
15h40m-16h00m	418	SUSTAINABLE CHARACTERISTICS OF SCHIST AND GRANITE ANCIENT BUILDINGS IN THE PERSPECTIVE OF THE THERMAL BEHAVIOUR	Marta Pereira, Ana Briga Sá, Anabela Paiva, Jitka Mohelníková, Sandra Pereira, Jorge Pinto

TS21 – New business models and innovative tools for future housing development			
Room: Sunset II			
Chair ID <i>Roberto Di Giulio</i>			
14h00m-14h20m	140	NOVEL DESIGN PRINCIPLES AND PROCESS MODELS FOR EMERGING CSO HOUSING MARKET	Jeroen Brouwer, Esra Bektas, Roberto Di Giulio, Mariagiulia Pasqualis, Costanza Quentin, Perica Savanović
14h20m-14h40m	142	DESIGN DRIVEN APPROACH TO HOUSING	Daniele Fanzini, Irina Rotaru

14h40m-15h00m	163	HOW INNOVATIVE BUSINESS MODELS CAN BOOST THE ENERGY EFFICIENT BUILDINGS MARKET	Eva Boo , Eve Dallamaggiore, Niall Dunphy, John Morrissey
15h00m-15h20m	165	MARKET POTENTIAL FOR COLLECTIVE SELF-ORGANISED HOUSING INTERVENTIONS IN EUROPE	Jeroen Brouwer, Éva Gerőházi, Klaus Th. Luig, Hanna Szemző
15h20m-15h40m	167	A SPIN OFF START UP FOR A HOUSING SUSTAINABLE REDEVELOPMENT	Donatella Radogna, Alberto Viskovic, Manuela Romano, Marco Fiusco
15h40m-16h00m	067	THE CONTRIBUTION OF SURVEY TO POPULAR ARCHITECTURE FOR THE INCREMENTAL HOUSING PROJECTS IN PORTUGAL	Bárbara Rangel, Fernando Brandão Alves, Vítor Abrantes

TS14 – Energy optimization of buildings envelope TS15 – Thermal inspection techniques of buildings			
Room: Sunset III			
Chair ID <i>Nuno Simões and Inês Simões</i>			
14h00m-14h20m	361	NEW FACADE DEVELOPED FOR SUSTAINABLE, ZERO-ENERGY OFFICE BUILDING – THEORETICAL ASSUMPTIONS AND NUMERICAL ANALYSIS	Dariusz Heim, Ireneusz Zbiciński, Magda Barecka, Dominika Knera, Anna Machniewicz, Eliza Szczepańska-Rosiak
14h20m-14h40m	445	COUPLING HEAT, AIR AND MOISTURE FLOW THROUGH A MULTILAYERED POROUS SOLID USING A BEM MODEL	Leopold Škerget, António Tadeu
14h40m-15h00m	280	SIMULATION OF HEAT DIFFUSION FOR ACTIVE IRT DATA ANALYSIS – ANALYTICAL MODELLING AND EXPERIMENTAL TESTING IN A MULTI-LAYERED SYSTEM	Catarina Serra, Nuno Simões, António Tadeu
15h00m-15h20m	329	AUTOMATIC DETECTION OF THERMAL BRIDGES IN THERMOGRAPHIC BUILDING INSPECTIONS	Javier Cereijo, Susana Lagüela, D. Roca, J. Martínez, H. Lorenzo
15h20m-15h40m	464	DETERMINATION OF THE THERMAL TRANSMITTANCE OF MULTILAYER SYSTEMS USING INFRARED THERMOGRAPHY: SENSITIVITY ANALYSIS	Inês Simões, Nuno Simões, António Tadeu, Joana Riachos
15h40m-16h00m	340	CRITICALITY MATRIX IN THE EVALUATION OF CONSTRUCTION QUALITY IN THE BRAZILIAN SOCIAL HOUSING	Vanda A. G. Zanoni, Márcio A. Buson

16:30-18:50		
TS19 – Sustainable and water efficient buildings		
Room: Lagoon I		
Chair ID <i>Armando Silva Afonso and Zuzana Vranayova</i>		
16h30m-16h50m	199	INNOVATIVE GREEN ROOFS FOR SOUTHERN EUROPE: BIOCRUSTS AND NATIVE SPECIES WITH LOW WATER USE Teresa Paço, Maria R. Cameira, Cristina Branquinho, Ricardo Cruz de Carvalho, Leena Luís, Dalila Espírito-Santo, Fernanda Valente, Carolina Brandão, Ana L. Soares, Adriana Anico, Francisco Abreu, Luís S. Pereira
16h50m-17h10m	360	REPERCUSSION OF WATER IN THE SUSTAINABILITY OF A SINGLE FAMILY HOUSING Amantia Martínez Pérez, Francisco Javier López Rivadulla, Patricia Alonso-Alonso
17h10m-17h30m	405	WATER EFFICIENCY POTENTIAL IN UNIVERSITY BUILDINGS: THE DECIVIL BUILDING OF THE UNIVERSITY OF AVEIRO Inês C. Meireles, Pedro Gonçalves, Vitor Sousa, Armando Silva-Afonso
17h30m-17h50m	462	INTENSIVE GREEN ROOF PROJECT AND INSTALATION Paulo Palha
17h50m-18h10m	009	THE EFFECTIVENESS OF AWARENESS TOOLS ON WATER USE EFFICIENCY IN UNIVERSITY HALLS OF RESIDENCE Charlie Wymer, Kemi Adeyeye, Dexter Robinson, Katherine Hyde
18h10m-18h30m	461	ATTRIBUTES OF GREYWATER REUSE; WELL-CONTROLLED GREYWATER TREATMENT AND USER PERCEPTION Katherine Hyde, Matthew J. Smith, Kemi Adeyeye
TS10 – Ecodesign and Certification Systems for Sustainable Buildings TS11 – Sustainable Rehabilitation of Buildings using Emerging Materials and Systems		
Room: Lagoon II		
Chair ID <i>Ana Sánchez-Ostiz and Marco Ludovico Marques</i>		
16h30m-16h50m	068	WINDOW ENERGY LABEL. AN EUROPEAN METHODOLOGY APPLIED TO THE ITALIAN CLIMATE CONTEXT. Emilio Antoniol

16h50m-17h10m	159	INDOOR AIR QUALITY IN HOUSING: A MORE EXHAUSTIVE INTERPRETATION OF THE ISSUE Maria Antonia Barucco, Chiara Trojeto
17h10m-17h30m	400	IMPLICATIONS OF THERMAL ENVELOPE RETROFITTING IN OTHER BUILDING REQUIREMENTS' PERFORMANCE Ana Sánchez-Ostiz, Brian J. Meacham, Silvia Domingo, Juan B. Echeverria, Purificación González
17h30m-17h50m	073	ETICS WITH SUSTAINABLE MATERIALS FOR REHABILITATION OF SOCIAL HOUSING AT BOAVISTA QUARTER IN LISBON Nádia Lampreia, Maria Rosário Veiga, Sofia Malanho
17h50m-18h10m	211	CONSERVATION OF SANDSTONE MONUMENTS: A NEW APPROACH IN CONSOLIDATION TREATMENTS Marco Ludovico Marques, Carlos Chastre
18h10m-18h30m	307	SURVEYING OF SANDSTONE MONUMENTS: NEW AND TRADITIONAL METHODOLOGIES TO ASSESS VIABILITY OF CONSERVATION ACTIONS Carlos Chastre, Marco Ludovico-Marques, Juan Saumell, Manuel Guerrero, Manuel Delgado
18h30m-18h50m	016	SUSTAINABLE MOVABLE EXTERNAL WALL CONSTRUCTION SYSTEM FOR FLEXIBLE SOCIAL HOUSING DESIGN IN UAE Khaled Galal Ahmed
Refurbishment Preservation and maintenance of the built heritage		
Room: Lagoon III		
Chair ID <i>Chris Murphy</i>		
16h30m-16h50m	058	SAVING THE HOME SHOP: THE FUTURE OF SMALL EARTHQUAKE PRONE BUILDINGS IN NEW ZEALAND Chris Murphy
16h50m-17h10m	076	FIRE SAFETY IN BUILDINGS - FACILITY MANAGEMENT Miguel Chichorro Gonçalves
17h10m-17h30m	084	A HOLISTIC PRESERVATION AND MAINTENANCE OF THE BUILT HERITAGE: THE ROLE OF AN INTEGRATED METHODOLOGY Cilísia Ornelas, Isabel Breda-Vázquez, João M. Guedes
17h30m-17h50m	133	LOCAL POZZOLANIC MATERIALS IN AZOREAN BUILT HERITAGE Ana Velosa, R. Veiga, C. Vale

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Detailed Programme of Parallel Sessions

18th December

17h50m-18h10m	332	VERNACULAR HERITAGE OF KARTEPE – KOCAELI: ENERGY EFFICIENCY AND CONSERVATION OF CIVIL ARCHITECTURE EXAMPLES Emre Kishali, T. Gül Köksal
18h10m-18h30m	386	POST-OCCUPANCY EVALUATION OF URBAN SPACES IN UNIVERSITIES: A CASE STUDY IN CEFET-MG - BRAZIL Manfredo Frederico Felipe Hoppe, Maria Cristina Ramos de Carvalho
18h30m-18h50m	442	CHERCHELL'S EARTH HOUSING ARCHITECTURE: ECOLOGICAL HERITAGE ARCHITECTURE IN AN ALGERIAN HISTORICAL COASTAL CITY Behiri Abdelkader
TS01 - Sustainable Affordable Housing TS06 - Economics, Financing and Management, Building Design		
	Chair ID	Room: Sunset I <i>Barbara Rangel</i>
16h30m-16h50m	362	EXPERIMENTAL CENTRE OF SUSTAINABLE HOUSING TECHNOLOGIES: 4TH POST-OCCUPANCY EVALUATION João Pedro Treviso, Guilherme Trevisan, Miguel A. Sattler, Muriel S. Froener, César R. Canova
16h50m-17h10m	458	UNDERSTANDING SUSTAINABILITY THROUGH BRADFORD AFFORDABLE HOUSING LENS Amal Abuzeinab, C. Oltean-Dumbrava, Dave Dickens
17h10m-17h30m	011	MANAGING INDOOR FACILITIES IN PUBLIC HOUSING TO IMPROVE ELDERLY QUALITY OF LIFE Mei-yung Leung, Jingyu Yu, Ali Memari
17h30m-17h50m	141	HIGH RISE VS LOW RISE: DOES BUILDING TYPOLOGY MATTER IN HIGH DENSITY PROPERTY INVESTMENTS? Chiara D'Alpaos, Valentina Antoniucci, Giulano Marella
17h50m-18h10m	351	CONVENIENCE IN FUNDING UPGRADING WORKS Rachele Perego
18h10m-18h30m	107	ASSESSING BUILDINGS THERMAL BEHAVIOUR THROUGH THE DEFINITION OF ITS DIMENSIONAL TYPOLOGY Isabel Torres, Ana F. Ramos, Jose Mendes da Silva, Atefeh Salehi

TS21 – New business models and innovative tools for future housing development		
	Chair ID	Room: Sunset II <i>Roberto Di Giulio</i>
16h30m-16h50m	177	DEVELOPING A SUSTAINABLE HOUSING MARKETPLACE: NEW BUSINESS MODELS TO OPTIMISE VALUE GENERATION FROM RETROFIT Niall P. Dunphy, Eva Boo, Eve Dallamaggiore, John Morrissey
16h50m-17h10m	275	CREATING VENDOR INDEPENDENT PARAMETRIC KNOWLEDGE USING CAD SYSTEMS Peter Bonsma, Ton Damen, Roberto Di Giulio, Klaus Luig
17h10m-17h30m	333	S.O.S. SOCIAL OR SUSTAINABLE? THE AUSTRIAN PPP2 MODEL Chiara Tagliaro
17h30m-17h50m	403	ORGANISATIONAL STRUCTURE, BUILDING CONCEPT AND FINANCIAL MODEL FOR SELF-ORGANISED HOUSING FOR ELDERLY PEOPLE Ton Damen, Hans Botman
17h50m-18h10m	149	CSO HOUSING PLATFORM: CREATING A VIRTUAL PROCESS SUPPORT TOOL FOR THE INITIAL PHASE OF CSO HOUSING DEVELOPMENT Stan Klerks, J. Brouwer, B. Hasselaar, N. van Vliet
18h10m-18h30m	446	AN INNOVATIVE INFORMATIONAL TECHNOLOGICAL PLATFORM MODEL FOR BUSINESS NETWORKING Nuno Biga, Vítor Abrantes, Pedro Frederico
18h30m-18h50m	108	AGILE MANAGEMENT IN CONSTRUCTION - AGILECONSTRUCTION SYSTEM Manuela Cristina Timóteo Fernandes

09:00-10:40			
		TS03 - Earthen Housing Construction	
	Chair ID	Room: Lagoon I Paulina Faria	
09h00m-09h20m	040	HIGROTHERMAL BEHAVIOUR OF EARTHEN PLASTERS FOR SUSTAINABLE HOUSING CONSTRUCTION Paulina Faria, Tânia Santos	
09h20m-09h40m	217	EARTHEN PLASTERS: THE POTENTIAL OF THE CLAYEY SOILS OF BARROCAL REGION IN ALGARVE. José Lima, Paulina Faria	
09h40m-10h00m	243	EXPERIMENTAL IDENTIFICATION OF KEY MECHANICAL PARAMETERS OF EARTH MATERIALS Champiré Florian, Antonin Fabbri, Jean-Claude Morel, Henry Wong	
10h00m-10h20m	352	CONTEMPORARY USE OF RAMMED EARTH IN PORTUGAL. THE CASE OF ALENTEJO COAST Joana Marques, Pilar Abreu e Lima, Clara Pimenta do Vale	
10h20m-10h40m	355	PROVIDE INSTRUCTIONS AND RESOURCES FOR ASSESSMENT AND TRAINING IN EARTHBUILDING - THE PIRATE PROJECT Stephan Jörchel, Lydie Didier, Rowland Keable, Paulina Faria	
		Materials and Building Technology Hygrothermal performance of materials and building components	
	Chair ID	Room: Lagoon II José Costa	
09h00m-09h20m	096	ADVANCED TECHNOLOGY, QUALITY AND NATURAL MATERIALS EFFICIENCY IN THE MEDITERRANEAN CLIMATE Gian Piero Cossu, Gianraffaele Loddo, Daniela Ludoni, Marco Pittaluga, Eleonora Solinas	
09h20m-09h40m	397	CONTINUOUS VAPOUR BARRIERS: TYPES AND CLASSIFICATIONS Carlos Alexandre Coutinho Mesquita, Alfonso García Santos, Javier Neila González	
09h40m-10h00m	437	EXTERIOR INSULATION AND FINISHING SYSTEM USING MEDIUM DENSITY ICB: MATERIAL CHARACTERIZATION Maria do Rosário Fino, Nuno Simões, António Tadeu	

10h00m-10h20m	460	INSULATION CORK BOARD WATER PERMEABILITY	
		Ricardo Almeida, António Tadeu, Nuno Simões	
		TS23 – Efficient Architecture, including theoretical urbanistic issues, rehabilitation, conservation buildings and sustainable heritage	
	Chair ID	Room: Lagoon III Adriana Matei	
09h00m-09h20m	131	VISUALIZING PEOPLE'S PERCEPTION OF THE URBAN SPRAWL USING PANORAMIO DATA Mihai Racu	
09h20m-09h40m	294	PARTICULAR DEVELOPMENTS OF TWO UNESCO CITIES FROM EASTERN EUROPE – COMPARATIVE CASE STUDY: BANSKÁ ŠTIAVNICA, SLOVAKIA & SIGHIȘOARA, ROMANIA Alexandru Tiotiu, Adriana Matei	
09h40m-10h00m	365	TRANSITION SPACES WITHIN HOUSING Andreea Motu, Adriana Matei	
10h00m-10h20m	443	RESCUE BY CLASSIFYING, RESTORATION, RECONVERSION AND EXTENSION OF A “RURAL HOUSE” IN URBAN Adriana Matei, Tudor Matei	
10h20m-10h40m	444	ACTUAL TENDENCIES OF URBAN RESIDENTIAL EXTENSIONS IN ROMANIA Adriana Matei, Mihai Racu	
		TS24 – Professional Education on Sustainable Housing Design	
	Chair ID	Room: Sunset I Ulker Copur	
09h00m-09h20m	075	TEACHING REAL ESTATE FINANCIAL ANALYSIS IN A DESIGN STUDIO CONTEXT: URBAN PLANNING AND ARCHITECTURE STUDIO IMPLEMENTATIONS Suzanne Lanyi Charles	
09h20m-09h40m	090	TEACHING SUSTAINABLE HOUSING DESIGN WITH REAL SCALE PROTOTYPES Jo Ruoff	

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Detailed Programme of Parallel Sessions

19th December

09h40m- 10h00m	116	TEACHING SUSTAINABLE BUILDING ENVELOPE DESIGN IN UNDERGRADUATE ARCHITECTURE EDUCATION THROUGH DESIGN STUDIO AND COMPANION COURSE LINKAGE Patrick Charles, William L. McQueen, Peter J. Romaines
10h00m- 10h20m	218	THE IMPORTANCE OF INCLUSION OF COMPULSORY SUBJECTS RELATED TO ENVIRONMENTAL SUSTAINABILITY IN BUILT GRADE CURRICULUM COURSE OF CIVIL ENGINEERING AND ARCHITECTURE OF THE CITY OF SÃO PAULO Elisabeth M. F. Severo, Hipólito J. C. de Sousa, Ana V. Sá
10h20m- 10h40m	263	HOUSING, ARCHITECTURAL THEORY AND PRACTICE: EXPLORING THE UNIQUE ADEQUACY APPROACH IN HOUSING RESEARCH FOR COMMUNITIES IN NIGERIA Joy Joshua Maina