





CONFERENCE SCHEDULE

 	ASHRAE REGION XIV – CRC2019	 
	ENERGY in BUILDINGS / ENERGY in TRANSPORTATION	

Saturday September 28, 2019

		ATHINA Level: 1 st floor	FOYER Level: 1 st floor	HERA 1 Level: 1 st floor	HERA 2 Level: 1 st floor	ZEUS – 1 Level: Basement	ZEUS – 2 Level: Basement	
08:00	09:00	Registration & Welcome						
09:00	10:00	Plenary – EinB/EinT Open Ceremony - Welcome Presentations Darryl Boyce, President, ASHRAE Vice Admiral Nikolaos Tsounis HN, Chief, Hellenic Navy General Staff Dr. Eleftherios Bourdakis, European Commission Policy Officer						
10:00	10:30	Experimental Performance Evaluation of an Integrated Solar System in Terms of Thermal Storage and Cooling Capacity Prof. Dr. Irene Koronaki <i>Mechanical Engineer, Thermal Section, School of Mechanical Engineering, National Technical University of Athens</i>	SPONSORS AREA & POSTER AREA POSTERS Psychological Impact of Lighting in Living Conditions Eirini Kontopoulou Architect Engineer	Embodied Energy of Building Materials in Hellenic Dwellings: Quantifying the Effect of Construction Date Prof. Dr. Dimitrios Koubogiannis <i>Department of Naval Architecture, School of Engineering, University of West Attica, Athens, Greece</i>	SHORT COURSE DEHUMIDIFICATION Alkis Triantafyllopoulos Mechanical Engineer, Vice President, ASHRAE Hellenic Chapter --- Dimitris Dalavouras <i>MBA, Ph.D. (c), ASHRAE Certified OPMP & CPMP, Technical Manager at General Refrigeration SA</i>		Energy Benchmarking of Hellenic Non-Residential Buildings Popi Droutsas <i>Research Assistant, Institute for Environmental Research & Sustainable Development NOA</i>	
10:30	11:00	Coffee Break						
11:00	11:30	Intelligent Control Valves for HVAC Systems Jörg Scherrer Mechanical Engineer FH, EMBA, Product Manager at Belimo Automation AG, Hinwil, Switzerland	SPONSORS AREA & POSTER AREA POSTERS Light Games with Textiles and Printed Boxes, Light Art and Celebration Lia Michali Physicist ---	Horizon Europe Horizon Europe and a New Way to Build Dr. Eleftherios Bourdakis <i>European Commission Policy Officer on Energy Efficient Buildings at DG RTD</i>	Sustainable Transportation Planning and Traffic Noise in Urban Environment: Case Survey in a Typical Mid-Sized Greek City Dr. Athanasios Galanis <i>Assistant Professor, International Hellenic University, Department of Civil Engineering, Serres, Greece</i>		An EU Interministerial Action for supporting consumers to compare the prices of alternative fuels Dr. Konstantinos Kollias	
11:30	12:00	The Balance between Visual Comfort and Energy Efficiency Henrick Clausen	SPONSORS AREA & POSTER AREA	WORKSHOP Research and Innovation in	Behavior of Motorcycle Riders in the Daytime and Nighttime Lighting Conditions	ASHRAE CRC2019 BUSINESS MEETING	Validation of a Control Algorithm for the Efficient Charging of PCM Energy	

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		Director, Fagerhult Lighting Academy	<p>POSTERS</p> <p>Lighting Design for the Visually Impaired</p> <p>Eleni Patroni <i>Architect Engineer</i></p> <p>---</p> <p>Defining Spectral Bands for Assessing the Impact of Lighting on Health and the Environment</p> <p>Alexios Papacharalampopoulos <i>Architect, Lighting Designer</i></p> <p>---</p> <p>Lighting Workshop: Architectural Lighting Design Principles</p> <p>Christina Skandali</p> <p>---</p>	<p>Thermal Storage and Plus Energy Buildings</p> <p>Sustainable Plus Energy Neighbourhoods-syn.ikia H2020 project</p> <p>Dr. Niki GAITANI <i>Senior Researcher & Project Manager, Norwegian University of Science and Technology</i></p>	<p>Dr. Panagiotis Lemonakis <i>Researcher, Department of Civil Engineering Laboratory of Highway Engineering, University of Thessaly</i></p>		<p>Storage Tanks using an Emulation Platform</p> <p>Ioannis Konstantaras <i>Research Assistant in Energy and Environmental Research Laboratory, National & Kapodistrian University of Athens (NKUA)</i></p>	
12:00	12:30	The Balance between Visual Comfort and Energy Efficiency Henrick Clausen <i>Director, Fagerhult Lighting Academy</i>		<p>Thermal Energy Storage an Overview of one Advanced System Based on the European TESSE2B Project</p> <p>Prof. Luis COELHO <i>Mechanical Engineering Dpt. of Escola Superior de Tecnologia de Polytechnic Institute of Setúbal</i></p>	<p>Net Zero Hospitals</p> <p>Frank Mills <i>Mechanical Engineer, Principal, Frank Mills Consulting Ltd</i></p>		<p>Biomimetic Principles for Energy Efficiency in Buildings</p> <p>Dr Ioanna Symeonidou <i>Architect Engineer, Assistant Professor, Department of Architecture, University of Thessaly</i></p>	
12:30	13:00			<p>Heat4Cool: Smart Retrofitting of Heating and Cooling Systems in Buildings</p> <p>Marcello APRILE <i>Researcher, Politecnico di Milano, Italy</i></p>	<p>Net Zero Hospitals</p> <p>Frank Mills <i>Mechanical Engineer, Principal, Frank Mills Consulting Ltd</i></p>		<p>Graphene-Based Phase Change Composite Nano-Materials for Thermal Storage Applications</p> <p>Amanda Rebola</p>	
13:00	14:00	Lunch						Lunch
14:00	14:30	Shelters for Monuments: Contribution to Sustainable Management and Future Heritage Preservation Vanta-Vassiliki Kyriakou <i>Architect Engineer, MSc. Energy Systems, MSc. Environmental Planning, PhD (c). Department of Civil Engineering, DUTH</i>	<p>SPONSORS AREA & POSTER AREA</p> <p>POSTERS</p> <p>Light Qualities in Ancient and Modern Times: A Creative Comparison as Visual Prism at Contemporary Lighting Systems Design</p> <p>Athena Sivi <i>Electrical & Computer Engineer</i></p> <p>---</p> <p>Design of thermoplastic tanks for thermal energy storage applications using Finite Element Analysis</p> <p>Christos Pagkalos <i>Research Assistant in Energy and Environmental Research Laboratory,</i></p>	<p>EXCESS (Energy fleXible user-Centric poSitive houseS) H2020 Project</p> <p>Tasos Tsitsanis <i>Electrical and Computer Engineer, MSc in Energy and Environmental Management</i></p>	<p>Low GWP Refrigerants for NEW Chiller Generation</p> <p>Emiliano Pellis <i>Mechanical Engineer, Export Area Manager, CLINT / G.I. INDUSTRIAL HOLDING SpA</i></p>	<p>ASHRAE CRC2019</p> <p>PRESIDENTIAL LUNCH AWARDS CEREMONY</p>	<p>Towards the definition of a BIM based framework for Efficient Renovation in Buildings</p> <p>Spiros Kousouris <i>Civil Engineer, Project Manager at Suite5 Data Intelligence Solutions Ltd., Limassol, Cyprus</i></p>	
14:30	15:00	Sustainability beyond Energy Efficiency. Healthy Buildings- WELL Certification José Castilla <i>Mech Engineer, LEED AP, Director of Cundall Spain</i>		<p>SCORES, Self Consumption of Renewable Energy by Hybrid Storage systems</p> <p>Prof. João Francisco <i>Mechanical Engineer, Coordinator Professor</i></p>	<p>Developing an integrated environmental policy for ports using Multicriteria Decision Making Analysis</p> <p>Ioannis Argyriou <i>MSc in Environmental Engineering-Water Resources and Climate Change, PhD (c), Technical University of Crete</i></p>			<p>EventMode: A Computational Design Tool for Integrating Human Activity Data within Early-Stage Daylight Performance Evaluations</p> <p>Panos Chatzitsakyris <i>Architect, Post-doctoral researcher AUTH</i></p>

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15:00	15:30	<p>Sustainability beyond Energy Efficiency. Healthy Buildings-WELL Certification</p> <p>José Castilla <i>Mech Engineer, LEED AP, Director of Cundall Spain</i></p>	<p><i>National and Kapodistrian University of Athens</i></p> <p>The Effect of Lighting on Visually Impaired People in the Areas of Public Transportation</p> <p>Leonidas Zarzoulas <i>Student of "Lighting Design" MA, School of Applied Arts, Hellenic Open University of Patras</i></p>	<p>Lightcoce Project: Building an Ecosystem for the Up-Scaling of Lightweight Multi-Functional Concrete and Ceramic Materials and Structures</p> <p>Prof. Dr. Maria Taxiarchou <i>Assistant Professor, School of Mining and Metallurgical Engineering, NTUA, Athens</i></p>	<p>Design of an Eco-Racing Yacht - A Naval Approach</p> <p>Anastasios - Spyridon Misthos <i>Naval Architect & Marine Engineer, School of Naval Architecture and Marine Engineering University of West Attica</i></p>	<p>CRC2019 BUSINESS MEETING</p>	<p>A Panhellenic Social Survey (2018-9) Regarding the Quality of Life, Energy Needs and People's Attitudes Towards R.E.S.</p> <p>Panos Kosmopoulos <i>Architect Engineer, f. Director, Laboratory of Environmental and Energy Design of Buildings and Settlements, D.U.TH.</i></p>
15:30	16:00	<p>Democratizing energy markets through flexibility-based demand response optimization services</p> <p>Kostas Tsatsakis</p>		<p>Workshop OPEN DISCUSSION</p>	<p>Data Services for the Modern Built Environment</p> <p>Thanos Daskalopoulos <i>Survey Engineer, Chief Innovation Officer at Delphis SA, Athens, Greece</i></p>		<p>Integration of Innovative BIPV Solutions on Micro CHP Plants</p> <p>Dr. Konstantinos Kollias</p>
16:00	16:30	Coffee Break					
16:30	17:00	<p>BERONIA Winery in "La Rioja". Thermo activation of the building's structure as an essential part in the wine production process</p> <p>Borja Gómez Martín <i>Project Director, IDOM</i></p>	<p>SPONSORS AREA & POSTER AREA</p>	<p>The Energy Performance of Hospital Buildings in Greece – Towards Zero Energy Buildings</p> <p>Argyro Dimoudi <i>Assistant Professor, Dept. of Environmental Engineering, Democritus University of Thrace, Greece</i></p>	<p>Thermal Energy Storage an Overview of one Advanced System Based on the European TESSE2B Project</p> <p>Prof. Luis COELHO <i>Mechanical Engineering Dpt. of Escola Superior de Tecnologia of Polytechnic Institute of Setúbal</i></p>	<p>ASHRAE CRC2019 BUSINESS MEETING</p>	<p>Techno-economic assessment of a solar electric cooling heating system in Europe</p> <p>Aikaterini Mavrouli <i>Physicist, M.Sc., Postgraduate Student, Laboratory of Stream Boilers and Thermal Plants, NTUA</i></p>
17:00	17:30	<p>BERONIA Winery in "La Rioja". Thermo activation of the building's structure as an essential part in the wine production process</p> <p>Sergio Arús Gutiérrez <i>MSc. in Sustainable Energy Engineering, IDOM</i></p>		<p>Student Presentations from the HELLENIC STUDENT BRANCH at NTUA</p> <p>---</p> <p>Student Presentations from the HELLENIC STUDENT BRANCH at TEISTE</p>	<p>CFD Simulation on PCM Charge and Discharge Process Applied to Compact Hybrid Thermal Storage Technologies</p> <p>Prof. João Francisco <i>Mechanical Engineer, Coordinator Professor</i></p>		<p>An empirical methodology for rating building thermal mass as energy storage system</p> <p>Chrysa Politi</p>
17:30	18:00	<p>A utility-oriented architecture towards their business transformation in an Energy-as-a-Service framework</p> <p>Kostas Tsatsakis</p>		<p>Bioclimatic Design & Cities</p> <p>Nikolas Bamplenis <i>Urban and Planning Engineer</i></p> <p>Petros Ioannidis <i>Regional and Planning Engineer</i></p>			<p>Energy Analysis of Thermo-chromic and Electrochromic Windows in an Office Building with a Solar-Assisted Heat Pump System</p> <p>Mikaela D. Detsi <i>Undergraduate student, School of Mechanical Engineering</i></p>
18:00	19:00	YEA / Student Mixer					
19:00	20:00						
20:00	23:00	Greek Night Out					

CONFERENCE SCHEDULE

Saturday September 28, 2019

		SYNDICATE 1 Level: 1 st floor	SUITE 1 Level: 2 nd floor	SUITE 2 Level: 2 nd floor	SUITE 3 Level: 2 nd floor	SYNDICATE 5 Level: Basement	SYNDICATE 6 Level: Basement
08:00	09:00	<u>MP - TRAINING</u> Membership Promotion	<u>SA - TRAINING</u> Student Activities	<u>GA - TRAINING</u> Government Affairs	<u>RP - TRAINING</u> Research Promotion	<u>CTT - TRAINING</u> Chapter Technology Transfer	<u>YEA-TRAINING</u> Young Engineers in ASHRAE
09:00	10:00						
10:00	10:30						