

**Saturday, November 12, 2016 – Athinais Cultural Center**

34 Kastorias str., 104 47 Athens, Hellas

8:00	9:00	Registration & Welcome		
		Plenary - Open Ceremony - Welcome Presentations		
9:00	10:00	<p><b>Dr. Ioanna Deligkiozi</b> President, Hellenic Chapter, EinB Conference Chair</p> <p><b>Georgios Stasinou</b> President, Technical Chamber of Greece</p> <p><b>Commodore Georgios Bamplenis H.N.</b> Deputy Inspector General of the Hellenic Navy</p> <p><b>Thodoros Papadopoulos</b> Managing Director, Attiko Metro</p> <p><b>Dimitris A. Charalambopoulos</b> Treasurer, Hellenic Chapter, EinT Conference Chair</p>		
		<b>SILK - A</b>	<b>SILK - B</b>	<b>MUSEUM</b>
10:00	10:30	<p>ASHRAE's International Role in Shaping the Built Environment – The Hellenic Chapter</p> <p><b>DIMITRIS A. CHARALAMBOPOULOS</b> <i>ASHRAE CEC Member ASHRAE Planning Committee Member</i></p>	<p>Energy Saving Project in a 12.000 m<sup>2</sup> Office Building of the Hellenic Navy</p> <p><b>MARIA LEONARDOU</b> <i>Architect Engineer NTUA</i></p> <p><b>DIMITRIS SPANELIS</b> <i>Mechanical Engineer NTUA, M.Sc.</i></p>	<p>Cost Effective Operation of Combined Cooling Heat and Power (CCHP) in Buildings</p> <p><b>Dr. CHRISTOS J. KORRES</b> <i>Chemical Engineer NTUA, CEO, Heliostat Ltd.</i></p>
10:30	10:50	<p>Construction Activity in Hellas of Crisis: Opportunities, Challenges and Measures to Contain the Situation</p> <p><b>ANTHIMOS AMANATIDIS</b> <i>Mechanical Engineer, Secretary General, Technical Chamber of Greece-Central Macedonia Section</i></p>	<p>Design of a Multi-Purpose, Regional, Intelligent Transportation System With E-Vehicles And Solar-Energy Charging-Stations</p> <p><b>Prof. Dr. DIMITRIOS TSIAMITROS</b> <i>Dpt of Electrical Engineering, Western Macedonia University of Applied Sciences</i></p>	<p>Transformation of a University Building into a Nearly Zero Energy Building</p> <p><b>Christos MYTAFIDIS</b> <i>Structural Engineer B.Sc., Environmental Engineer M.Sc.</i></p>
10:50	11:10	<p>Building Integrated PV (BIPV) – Measuring Technical Characterization and Standardization</p> <p><b>Prof. Dr. MARIJA S. TODOROVIĆ</b> <i>Fellow-ASHRAE, Fellow-REHVA and Fellow-WAAS</i></p>	<p>CO<sub>2</sub> Emissions from Ships: Reduction Methods and Technologies</p> <p><b>Prof. Dr. ELIAS YFANTIS</b> <i>Head of the Naval Architecture &amp; Marine Engineering Section, Hellenic Naval Academy</i></p>	<p>Indoor Environmental Quality and its Impacts on Health – Case Study: School Buildings</p> <p><b>ALEXANDROS KARAPETIS</b> <i>Civil Engineer M.Sc., CEO, Cofounder Tritoxo Project Management</i></p>
11:10	11:30	<b>COFFEE BREAK</b>		
11:30	12:00	<p>A Sustainable Roadmap for Energy in Transport : Innovation, Efficiency and Productive Reconstruction</p> <p><b>CHRISTOS SPIRTZIS</b> <i>Minister of Infrastructure, Transport &amp; Networks</i></p>	<p>Vertical Transport in Buildings, Present &amp; Future Situation</p> <p><b>Prof. Dr. BRANISLAV TODOROVIĆ</b> <i>Professor at the University of Belgrade, Permanent Visiting professor, South-East University in Nanjing, China, Editor of Elsevier's Journal Energy &amp; Buildings</i></p>	<p>Integration of Building Automation Systems into Microgrids Management Systems for Effective Demand Response Schemes in Smart Grids</p> <p><b>Prof. Dr. DIMITRIOS STIMONIARIS</b> <i>Dpt of Electrical Engineering, Western Macedonia University of Applied Sciences</i></p>
12:00	12:20	<p>Photovoltaic Energy Efficiency Analysis for Hellenic Residential Buildings</p> <p><b>ATHINA GAGLIA</b> <i>Mechanical Engineer, M.Sc., National Technical University of Athens</i></p>	<p>Commercial Aircraft Cabins' Air Conditioning Systems</p> <p><b>Prof. Dr. ESSAM E. KHALIL</b> <i>Professor of Mechanical Engineering, Cairo University, Chairman Arab HVAC Code Committee, Deputy Director (International) AIAA</i></p>	<p>Facing The Challenge Of Improving Energy Efficiency In Existing Buildings By Architectural Energy Retrofit (AER)</p> <p><b>EFTYCHIA ELIOPOULOU</b> <i>Architect NTUA, MSc in Environmental Design of Buildings, WSA, Cardiff University, Ph.D. Researcher, National Technical University of Athens</i></p>
12:20	12:40	<p>Trends of Popular Energy Conservation Measures and Resulting Savings in Hellenic Schools</p> <p><b>KALLIOPI G. DROUTSA</b> <i>Environmental Physicist M.Sc., Research Associate Group Energy Conservation, Institute for Environmental Research &amp; Sustainable Development, National Observatory of Athens</i></p>	<p>Reliability-based Operational Strategies for Energy Storage Systems in Transportation Systems Applications</p> <p><b>Prof. Dr. EVANGELOS DIALYNAS</b> <i>Electrical Engineer, National Technical University of Athens</i></p>	<p>Solar Assisted Heat Pump Space Heating Systems in Athens - An Energetic and Financial Analysis</p> <p><b>EVANGELOS BELLOS</b> <i>Ph.D. (c) in Thermal Engineering at Solar Energy and Buildings National Technical University of Athens</i></p>

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12:40	13:00	Evaluating Energy Savings Projects <b>KONSTANTINOS LASKOS</b> <i>Civil Engineer AUTH, ASHRAE BEMP, Energy Planning &amp; Saving Consultant</i>	Intermodal Hubs for Eco-Friendly Transport Logistics <b>Prof. Dr. YORGOS STEPHANEDES</b> <i>Division Director, Environmental and Transportation Engineering, Dept. of Civil Engineering, University of Patras, Greece</i>	Persisting Utilization of a Listed Building <b>NIKOLAOS BAMPLENIS</b> <b>PETROS IOANNIDES</b> <b>GRIGORIS TASOULAS</b> <i>Students, Dpt of Planning and Regional Development, University of Thessaly, School of Engineering</i>
13:00	14:00	<b>LUNCH BREAK</b>		
14:00	14:20	Simulation of Air Flow Pattern in a Room with Ceiling Mounted Circulator <b>Prof. Dr. ESSAM E. KHALIL</b> <i>Professor of Mechanical Engineering, Cairo University, Chairman Arab HVAC Code Committee, Deputy Director (International) AIAA</i>	Air Conditioning System Design on a Two-Line Metro Station - A Complex Case of Energy, Cost, Social and Environmental Sustainability <b>Dr. GEORGE LEOUTSAKOS</b> <i>Deputy Engineering Manager, Attiko Metro</i>	Two Component Layer for Retrofit with Insulating and Structural Properties <b>Dr. ANGELIKI SKAROPOULOU</b> <i>Chemical Engineer, Laboratory of Inorganic and Analytical Chemistry, Chemical Engineering Department, National Technical University of Athens</i>
14:20	14:40	Why Ventilation? <b>MATS SÁNDOR</b> <i>Technical Director, Systemair</i>	Real World Driving Energy Consumption and Air Pollution Implications of Decarbonizing the Greek Transport Sector <b>GEORGE SPYROPOULOS</b> <i>Soft Energy Applications and Environmental Protection Laboratory, Piraeus University of Applied Sciences, Greece</i>	Façade Sun Protection System Enhanced with Phase Change Materials: A Numerical Simulation Study <b>MAGDALINI AL FANTEL</b> <i>Researcher Engineer at Laboratory of Heterogeneous Mixtures and Combustion Systems at NTUA, Athens, Greece</i>
14:40	15:00	Energy Saving Through Evaporating Cooling in Comfort and Industrial Applications <b>LUIGI NALINI</b> <i>Mechanical Engineer, CEO at CAREL Industries S.p.A.</i>	Transport-Related Energy Consumption and Economic Activity – To Which Extend this Relationship can be Decoupled? <b>ATHANASIOS GALANIS</b> <i>Department of Civil Engineering, University of Thessaly, Volos, Greece</i>	A Review of Glazed Constructions with Phase Change Materials <b>PETROS DALAVOURAS</b> <i>Architect engineer, MSc Environmental Design of Buildings, BREEAM assessor, ASHRAE BEMP certified, NZEB designer</i>
15:00	15:20	Biomass District Heating Systems Design: The Grevena City Case Study <b>EFTHYMIOS GIAGOZOGLU</b> <i>Mechanical Engineer, M.Sc., Project Manager at the Regional Development Agency of West Macedonia (ANKO) S.A</i>	Well-To-Wheel Exergoenvironmental and Social Cost of Electrifying the Greek Transport Sector: The Case of the Kos – Kalymnos Complex <b>STELIOS LIAROS</b> <i>Mechanical Engineer M.Sc., Lab of Soft Energy Applications &amp; Environmental Protection, Mechanical Engineering Department, Piraeus University of Applied Sciences</i>	Thermal Insulating Geopolymers Based on Inorganic Foaming <b>Dr. DIMITRIOS KIOUPIS</b> <i>Chemical Engineer, Laboratory of Inorganic and Analytical Chemistry, Chemical Engineering Dpt., National Technical University of Athens</i>
15:20	15:40	Electricity Consumption Characteristics for Areas in and Around Athens <b>Dr. BASIL PSILOGLOU</b> <i>Senior Researcher, National Observatory of Athens, Institute for Environmental Research and Sustainable Development</i>	Investigation into the Electrification of Greek Rail Network: Energy and CO <sub>2</sub> Considerations <b>Dr. THEODOROS PAPPAS</b> <i>Heriot-Watt University - Piraeus University of Applied Sciences</i>	The Effect of Vacuum Insulation Panels on the Energy Efficiency of Lightweight Steel-Framed Drywall Buildings <b>IOANNIS ATSONIOS</b> <i>Ph.D. candidate at Lab. of Heterogeneous Mixtures and Combustion Systems, School of Mechanical Engineering, National Technical University of Athens</i>
15:40	16:00	TMY Performance in Calculating Building's Thermal Energy Consumption <b>STYLIANOS LIAROS</b> <i>Mechanical Engineer M.Sc., Lab of Soft Energy Applications &amp; Environmental Protection, Mechanical Engineering Department, Piraeus University of Applied Sciences</i>	Alternative Fuels for Aviation: A Green Perspective for Aviation <b>GEORGIA I. LYKOU</b> <i>BSc, MSc, MBA, PhD Candidate, AUER Dep. of Informatics Researcher, Head of Air Quality Office, Environmental Protection Section, HCAA, Greece</i>	TAB Techniques Within an EPC Give High Energy Savings Verified by IPMVP Tool in the Greek Energy Regulator Building <b>Dr. MICHAELIS KARAGIORGAS</b> <i>Energy Manager, A&amp;B Enterprise, Athens, Greece</i>
16:00	16:30	<b>COFFEE BREAK</b>		
16:30	16:50	Operational Energy Savings & Embodied Energy in Hellenic Residential Buildings <b>Dr. COSTAS A. BALARAS</b> <i>Group Energy Conservation, Institute for Environmental Research &amp; Sustainable Development, National Observatory of Athens</i>	Assessment of Preventive Maintenance Schedule on Metro Traction Transformers – A Probabilistic Model <b>VASILIKI PAPAN</b> <i>Electrical and Computer Engineer (MEng), PhD candidate in NTUA, School of Electrical and Computer Engineer</i>	Visual Comfort and Energy Efficiency for User Centric Lighting Control <b>KONSTANTINOS TSATSAKIS</b> <i>IT &amp; Organization Unit, Hypertech SA</i>

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16:50	17:10	Variable Capacity Refrigeration Compressors <b>FELIPE RUIZ GUERRERO</b> <i>International Sales Manager at Engie Refrigeration GmbH, Mechanical Engineer</i>	Experimental Investigation of a Fuel Cell Hybrid System for Transport Applications <b>DIMITRIOS APOSTOLOU</b> <i>B.Sc. Electrical Engineer, MSc in Energy, Research Assistant, Lab of Soft Energy Applications &amp; Environmental Protection, Piraeus University of Applied Sciences</i>	A Demand Side Management Framework Driven by Ambient Services and Consumer Profiling <b>KONSTANTINOS TSATSAKIS</b> <i>IT &amp; Organization Unit, Hypertech SA</i>		
17:10	17:30	Energy Saving Techniques in Ships - Technical and Operational Measures <b>Prof. Dr. EFTHIMIOS PARIOTIS</b> <i>Section of Naval Architecture &amp; Marine Engineering, Hellenic Naval Academy</i>	SOER 2008-2011: "Environment and Transport Sector" Conclusions and More <b>Dr. JULIA F. COSTAKI</b> <i>Hellenic Civil Aviation Authority, Athens, Greece</i>	Parametric Analysis of a Solar Cooling System Designed for Athens Climate <b>STRATOS TZINNIS</b> <i>School of Mechanical Engineering, Thermal Department, National Technical University of Athens</i>		
17:30	17:50	Thermo-economic Exhaust Heat Recovery Analysis on Aero-Derivative Gas Turbine Using a Subcritical Steam Rankine Cycle <b>ANASTASIOS PAPADOPOULOS</b> <i>Thermodynamics &amp; I.C. Engines, Hellenic Air Force Academy, Dpt of Aeronautical Sciences, Section of Thermodynamics, Propulsion &amp; Power Systems, Dekelia Air Force Base</i>	Discussing EC Climate and Energy Priorities for Sustainable Transport; Institutional State of the Art and Future Trends <b>Dr. IOULIA MORAITOU</b> <i>Institute of Regional Development, Department of Economic and Regional Development, Panteion University of Social and Political Sciences, Athens, Greece</i>	Building Energy Management Systems Using an Innovative "Smart City Platform" <b>Prof. Dr. HARIS DOUKAS</b> <i>Management &amp; Decision Support Systems Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens</i>		
17:50	18:10	The TEIWM ASHRAE student branch: History, Activities <b>Prof. Dr. DIMITRIOS TSIAMITROS</b> <i>Student Branch Advisor</i>	Energy & Environmental Management in Attica Tollway <b>ELEFThERIOS ZAMPETAS</b> <i>Mechanical Engineer, NTUA, Head of E&amp;E/M Maintenance at ATTIKES DIADROMES S.A.</i>	Evaluation of Energy Efficiency Measures in Tertiary Sector Buildings <b>LEONIDAS K. KONTOS</b> <i>Electrical and Computer Engineer NTUA, MSc in Energy Heriot-Watt University of Edinburgh</i>		
18:10	19:00	<b>"ASHRAE's GLOBAL FRONTIERS – PUSHING BEYOND THE ENVELOPE"</b> <b>ROUND TABLE – OPEN DISCUSSION</b>				
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>★ Dr. Ioanna DELIGKIOZI</li> <li>★ Prof. Dr. Essam KHALIL</li> <li>★ Dr. Costas BALARAS</li> <li>★ Luigi NALINI</li> <li>★ Prof. Dr. Doaa Mahmood El-Sherif</li> <li>★ Prof. Dr. Branko TODOROVIĆ</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>★ Theodoros PAPADOPOULOS</li> <li>★ Prof. Dr. Marija TODOROVIĆ</li> <li>★ Prof. Dr. Elias YFANTIS</li> <li>★ Mats SANDOR</li> <li>★ Prof. Dr. Dimitrios TSIAMITROS</li> <li>★ Felipe Ruiz GUERRERO</li> </ul> </td> </tr> </table>			<ul style="list-style-type: none"> <li>★ Dr. Ioanna DELIGKIOZI</li> <li>★ Prof. Dr. Essam KHALIL</li> <li>★ Dr. Costas BALARAS</li> <li>★ Luigi NALINI</li> <li>★ Prof. Dr. Doaa Mahmood El-Sherif</li> <li>★ Prof. Dr. Branko TODOROVIĆ</li> </ul>	<ul style="list-style-type: none"> <li>★ Theodoros PAPADOPOULOS</li> <li>★ Prof. Dr. Marija TODOROVIĆ</li> <li>★ Prof. Dr. Elias YFANTIS</li> <li>★ Mats SANDOR</li> <li>★ Prof. Dr. Dimitrios TSIAMITROS</li> <li>★ Felipe Ruiz GUERRERO</li> </ul>
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		Moderator: Dimitris A. CHARALAMBOPOULOS				

		MUSEUM - B
14:00	16:00	<b>WORKSHOP: Measurement and Verification of Energy Savings Projects</b> Topics on: <ul style="list-style-type: none"> <li>• International Measurement and Verification Protocol</li> <li>• ASHRAE Guideline 14 Measurement of Energy, Demand and Water Savings</li> <li>• ISO 50015:2014 Energy management systems -- Measurement and verification of energy performance of organizations -- General principles and guidance</li> </ul> <b>ALKIS TRIANTAFILLOPOULOS</b> <i>Mechanical Engineer, ASHRAE Hellenic Chapter President Elect</i> <b>Laskos Konstantinos</b> <i>Civil Engineer AUTH, ASHRAE BEMP, Energy Planning &amp; Saving Consultant, Energy &amp; Building</i>