


**TIMETABLE** Version: Nov 9, 2014For updates check at the website at <http://ashrae.gr/einb2014.php>

		Auditorium MEDITERRANEAN	Auditorium HYDRA-AEGINA	Auditorium SPETSES	Auditorium RODOS
8:00 am	9:00 am	Registration & Welcome <b>Plenary Meeting (Auditorium Med) Open Ceremony</b> <b>Welcome Presentations</b>			
9:00 am	9:10 am	Vasiliki GALIOTOU ASHRAE Hellenic Chapter President			
9:10 am	9:20 am	Admiral Georgios CHRISTOPOULOS Hellenic Navy			 A new era for high performance buildings using BIM
9:20 am	9:30 am	Prof. Dr. William Bahnfleth ASHRAE President 2013-2014			
9:30 am	9:40 am	Dimitris A. CHARALAMBOPOULOS Conference General Chair			Introduction of the ISES Virtual Energy Lab <b>K. Baumgärtel</b> , M. Gürtler & P. Katranuschkov, TU Dresden, Germany
9:40 am	9:50 am	Christos SPRITZIS Technical Chamber of Greece (TEE) President			
9:50 am	10:00 am				
10:00 am	10:40 am	High Performance Buildings <b>William P. Bahnfleth</b> Department of Architectural Engineering Pennsylvania State University ASHRAE President 2013-2014	A Croatian Experience Regarding the Implementation of the Energy Efficiency Policy in Public Buildings <b>S. Nižetić</b> Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Split, Croatia	Energy Conservation & Buildings: Developments Overview in the Technical World <b>A. Amanatidis</b> General Secretary, Technical Chamber of Greece-Section of Central Macedonia	The ISES pilots <b>T. Mansperger</b> , Leonhardt, Andrä und Partner, Germany; U. Leskovsek, Trimo d.d., Slovenia
					Behind the Scene I: Preparing the energy extended BIM environment (eeBIM) <b>K. Baumgärtel</b> & M. Kadolsky, TU Dresden, Germany; T. Laine, Granlund Oy, Finland
10:40 am	11:10 am	In Search for new Technologies for the Reduction of Heating and Air-Conditioning Energy Needs <b>B. Todorovic</b> Professor at the University of Belgrade, Permanent Visiting professor, South-East University in Nanjing, China, Editor of Elsevier's Journal Energy & Buildings	Harmonized Rural and Urban Sustainable Development to Preserve Natural and Cultural Heritage via RES, Energy Efficiency and BPS <b>M.S. Todorović</b> Academy of Engineering Sciences of Serbia; School of Energy & Environment, Southeast University, China; Director vea-invi.ltd, Belgrade, Serbia	Lifecycle Costing of Low Energy Housing Refurbishment: A Case Study of a 7 Year Retrofit in Chester Road, London <b>T.I. Neroutsou</b> University College London, London, UK	Behind the Scene II: Integrating external resources in the eeBIM framework <b>G. Gudnason</b> , Innovation Centre Iceland; V. Semenov, ISPRAS, Russian Academy of Sciences, Moscow, Russia
11:10 am	11:30 am	COFFEE BREAK			
11:30 am	12:00 pm	Exploring the Synergies Among the	Reduced density geopolymers as	Thermal Performance Evaluation of	Sensitivity Simulations with the

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		Energy, Hygrothermal, Fire and Environmental Performances of Building Elements <b>D.K. Bikas</b> Dpt. of Civil Engineering, Aristotle University of Thessaloniki, Greece	structural elements in energy efficient buildings <b>G. Kakali</b> National Technical University of Athens, School of Chemical Engineering, Greece	Semi - Outdoor Sport Stadia - A Case Study of the Upcoming 2022 Fifa World Cup in Qatar <b>P. Sofotasiou</b> Postgraduate Researcher, Department of Civil Engineering, University of Leeds	ISES Virtual Energy Lab <b>R. Hoch</b> & P. Freudenberg, TU Dresden, Germany; T. Laine, Granlund Oy, Finland
12:00 pm	12:30 pm	Recent Developments for International Standards for Indoor Environmental Quality <b>B.W. Olesen</b> Intl. Centre for Indoor Environment and Energy, Technical University of Denmark	Inorganic Polymers: Novel Materials for the Development of High Performance and Low Embodied Energy Solutions for Energy Efficient Buildings <b>Ch. Panagiotopoulou</b> School of Mining and Metallurgical Engineering, NTUA, Athens, Greece	Energy Consumption and Energy Saving Practices for Laboratory Design <b>K. Glampedaki</b> Glampedakis Laboratory Design Firm, Athens, Greece	Consideration of stochastic input and sensitivity analysis using eKPIs <b>C.A. Balaras</b> , National Observatory of Athens, Group Energy Conservation, Greece; S. Christodoulou, UCY School of Engineering, Cyprus
12:30 pm	1:00 pm	Energy & Buildings – The role of engineers and TEE <b>Ch. Spirtzis</b> President, Technical Chamber of Greece (TEE)	The Effect of Synthesis Parameters on the Structure and Properties of Aeroclays <b>A. Skaropoulou</b> National Technical University of Athens, School of Chemical Engineering, Greece	Energy Saving in the Modern Buildings Through the Application of Polyvalent Heat Pumps with Simultaneous and Opposite Loads <b>M. Janes</b> Key Account Manager, RHOSS SpA, Udine, Italy	Discussion - Q & A
1:00 pm	2:00 pm	LUNCH BREAK			
2:00 pm	2:30 pm	New materials and applications for renewable energy systems and energy storage <b>E.V. Hristoforou</b> School of Mining & Metallurgical Engineering National Technical University of Athens, Greece	Self-cleaning coatings of doped TiO <sub>2</sub> nanostructured powders for applications in construction industry <b>I. Deligkiozi</b> Center for Research and Technology, Greece	Embodied Energy in Electro-Mechanical Installations of Hellenic Dwellings <b>D.G. Koubogiannis</b> Department of Energy Technology Engineering, Technological Educational Institute of Athens, Greece	Parallel full building simulation of design alternatives – the ISES approach <b>R. Hoch</b> & J. Grunewald, TU Dresden, Germany; M. Dolenc, University of Ljubljana, Slovenia Decision making with the ISES Virtual Energy Lab <b>T. Laine</b> & F. Forns-Samso, Granlund Oy, Finland
2:30 pm	3:00 pm	STEAM and Knowledge Diffusion Approaches <b>N. Kourakos</b> Bioresource Technology Unit, School of Chemical Engineering, National Technical University of Athens, Greece	Lighting Energy Savings Due To The Use Of A Sun Tracking Mirrored Lightself In Office Buildings <b>A. Tsangrassoulis</b> Department of Architecture, University of Thessaly, Volos, Greece	Energy Performance of open air swimming pools in Greece <b>A. Dimoudi</b> Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece	Detailed computational fluid dynamics analysis of design alternatives <b>B. Protopsaltis</b> & Th. Pappou, SOFiSTiK Hellas, Greece
3:00 pm	3:30 pm	From Energy in Buildings to Energy in Ships <b>E. Yfantis</b> Hellenic Naval Academy, Naval	The Energy Performance of Windows in Mediterranean Regions <b>K. Laskos</b> Laboratory of Building Construction	Chiller System Performance Analysis by Data Envelopment <b>R.P. KURKIYA</b> Kamal Cogent Energy Pvt. Ltd.,	Behind the Scene III: Cloud computing <b>M. Dolenc</b> & R. Klinc, University of Ljubljana, Slovenia; Th.

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		Architecture & Marine Engineering Section	& Building Physics, Civil Engineering Department, Aristotle University of Thessaloniki, Greece	Jaipur (Raj.), India	Rekouniotis, SOFiSTiK Hellas, Greece
3:30 pm	4:00 pm	<b>New Damage Control Methods for Assymmetric Incidents</b> <b>G. Bamplenis</b> Technical Inspector of Hellenic Navy General Staff, Greece	<b>Energy Saving Verification for an ISO 50001 in the RAE Building</b> <b>M. Karagiorgas</b> A&B Enterprise, Athens, Greece	<b>Development of an Energy Model of a Building's Conditioned Space Equipped With a Heating, Ventilation and Air Conditioning System</b> <b>V.S.K.V Harish</b> Indian Institute of Technology Roorkee, India	<b>Lessons learned and wrap up</b> <b>T. Mansperger</b> , Leonhardt, Andrä und Partner, Germany; <b>P. Katranuschkov</b> , TU Dresden, Germany
4:00 pm	4:20 pm	COFFEE BREAK			
4:20 pm	5:00 pm	<b>Could your Building Catch a Virus? Measuring the Impact of Cyber Security Threats on Building Management Systems</b> <b>K. Karagiannis</b> Laing O'Rourke Centre for Systems Engineering & Innovation, Department of Civil and Environmental Engineering, Imperial College, London, UK	<b>Evaluation of RES-H2 hybrid energy system limitations operated in an Office Building at Central Greece</b> <b>K. Tsoukalas</b> School of Mining and Metallurgical Engineering, Laboratory of Metallurgy National Technical University of Athens, Greece	<b>WORKSHOP Part I</b> Ventilation Standards for Acceptable Indoor Air Quality, Psychrometric Analysis and Air Handling Units Components and Characteristics <b>A. Triantafyllopoulos</b> Mechanical Engineer, Menerga Hellas S.A.	<b>WORKSHOP part I</b> Introduction <b>Evangelos V. Hristoforou</b> Prof. Dr., School of Mining & Metallurgical Engineering National Technical University of Athens <b>WORKSHOP part II</b> <b>FEA Techniques For Improving The Energy Consumption Of Buildings</b> <b>C. Vossou</b> School of Mining & Metallurgical Engineering National Technical University of Athens
5:00 pm	5:30 pm	<b>Calculated &amp; Field Data of Energy Savings for Heating in Hellenic Dwellings</b> <b>C.A. Balaras</b> Group Energy Conservation, Institute for Environmental Research & Sustainable Development, National Observatory of Athens, P. Penteli, Greece	<b>Nearly Zero Energy Hotels - from European policy to real life examples: the neZEH pilot hotels</b> <b>T. Tsoutsos</b> Renewable and Sustainable Energy Systems Lab, School of Environmental Engineering, Technical University of Crete, Chania, Greece	<b>WORKSHOP Part II</b> Ventilation Standards for Acceptable Indoor Air Quality, Psychrometric Analysis and Air Handling Units Components and Characteristics <b>A. Triantafyllopoulos</b> Mechanical Engineer, Menerga Hellas S.A.	<b>WORKSHOP part III</b> Thermoelectric Generators And Their Applications For THE DOMESTIC SECTOR <b>D. Kossyvakis</b> Prof. Dr., School of Mining & Metallurgical Engineering National Technical University of Athens <b>WORKSHOP part IV</b> Hybrid Photovoltaic – Thermoelectric Energy Conversion Systems <b>G. Voutsinas</b> School of Mining & Metallurgical Engineering National Technical
5:30 pm	6:00 pm	<b>Recent Data of the Experimental Prototype Unit ZED-KIM</b> <b>P. Kosmopoulos</b> Laboratory of Environmental and	<b>Medical Management of a Major Incident</b> <b>Athanasios Kalogeropoulos</b> Sub Lieutenant MD, MPH, MHA(c)	<b>WORKSHOP part III</b> Ventilation Standards for Acceptable Indoor Air Quality, Psychrometric Analysis and Air Handling Units	<b>WORKSHOP part V</b> DC/AC Converters For Renewable Energy Conversion Systems <b>N. Giannoulakis</b>

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		Energy Design of Buildings and Settlements, Engineering School, Democritus University of Thrace, Xanthi, Greece	MIMMS trainer (NATO COE for military Medicine) Hellenic Navy	Components and Characteristics <b>A. Triantafyllopoulos</b> Mechanical Engineer, Menerga Hellas S.A.	School of Mining & Metallurgical Engineering National Technical
6:00 pm	6:30 pm	<b>COFFEE BREAK</b>			
6:30 pm	7:30 pm	<b>ROUND TABLE - DISCUSSION</b>			
		<ul style="list-style-type: none"> <li>• Prof. Dr. Bahnfleth, W.P.</li> <li>• Dr. Balaras, C.A.</li> <li>• Prof. Dr. Dimoudi, A.</li> <li>• Prof. Dr. Hristoforou, E.</li> <li>• Prof. Dr. Kakali, G.</li> <li>• Prof. Dr. Khalil, E.</li> </ul> <ul style="list-style-type: none"> <li>• Prof. Dr. Olesen, B.W.</li> <li>• Spirtzis, Ch.</li> <li>• Prof. Dr. Todorovich, B.</li> <li>• Prof. Dr. Todorovic, M.</li> <li>• Prof. Dr. Tsoutsos, Th.</li> <li>• ...</li> </ul>			
7:30 pm	8:00 pm				
8:00 pm	9:00 pm	<b>SOCIAL EVENT</b>			
		Children's Choir, Traditional Hellenic Dances & Piano Improvisations			