

	INTERNATIONAL CONFERENCE "ENERGY IN BUILDINGS 2024" Europe, Middle East Africa		
	Friday November 22, 2024		
Auditorium ARISTOTLE I Level: Basement			
13:00	13:30	Registration - Networking - Coffee Break	
Welcome Presentations Dimitris A. Charalambopoulos, Conference General Chair Dennis Knight, ASHRAE President			
Session 1: Paper & Poster Session Chair: Stelios Lampadakis, Lambros Doulos, George Pantelidis, Alkis Triantafyllopoulos			
13:30	15:00	Reducing Hospital - Acquired Infections with Artificial Intelligence •	
		Takis Kotis <i>CEO, Cambridge Medical Academy, Cambridge. United Kingdom</i>	
		Heat Decarbonisation of Public Sector Housing: Deep Retrofit Using an EnerPHit-Informed Retrofit Plan Methodology	
		Evangelia Mitsiakou • <i>Architectural Engineer (MArch), MSc Environmental Design of Buildings, Passivhaus/EnerPHit designer, PHPP Expert, Energy and Retrofit Assessor</i>	
		Modelling and Experimental Evaluation of an Open Cycle Liquid Desiccant Dehumidification Unit •	
		Fotios Galanis <i>Mechanical Engineer, MSc, PhD Candidate, Applied Thermodynamics Laboratory, Thermal Section, School of Mechanical Engineering NTUA, Athens, Greece</i>	
		Field Assessment of Indoor Environmental Quality and Energy Consumption in a Hellenic Dwelling	
		Kostas G. Nikolaou <i>School of Applied Arts and Sustainable Design, Hellenic Open University, Greece</i>	
		A Socially Oriented Reuse of an Abandoned Building as a Nearly Zero Energy Consumption Building for Senior Housing •	
		Georgios Konstantopoulos <i>Decision Support Systems and Management Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens (NTUA), Athens, Greece</i>	
Smartness Assessment of Hellenic Buildings: A Case Study •			
Zois Asimakopoulos <i>Mechanical Engineer, BSc at PANTEC S.A., Thessaloniki, Greece</i>			
THERMAL BRIDGES. Assessment of Linear Thermal Bridges at Different Positions of the Building Envelope Using THERM Software •			
Georgia Katsouli <i>Civil Engineer at Hellenic Air Force, School of Applied Arts, Hellenic Open University, Patras, Greece</i>			
Independent Validation of Products which Improve Indoor Air Quality •			
Dr. Angela Southey <i>Chief Technical Officer, Airmid Healthgroup Ltd, Ireland</i>			
Evaluating a Range of Fiberglass Insulation Products designed for Healthier Indoor Environments •			
Dr. Gráinne Cunniffe <i>Science Lead, Ireland</i>			
Sustainable lighting solutions in developing countries: The case study of Mozambique			
Prof. Lambros Doulos, PhD <i>Associate Professor, Physicist, School of Applied Arts, Hellenic Open University, Patras, Greece</i>			

		<p align="center">Part-Load Based Optimization of Ejector Cooling Cycle Prof. Konstantinos Braimakis <i>Laboratory of Refrigeration, Air Conditioning & Solar Energy, Thermal Engineering Section; School of Mechanical Engineering, National Technical University of Athens, Greece</i></p> <p align="center">Artificial Technology in Construction • Christos Zoukos <i>Computer Engineer MSc Consultant at Boston Consulting Group (BCG), New York University (NYU), USA</i></p>
15:00	17:00	<p>Session 2: HVAC INTRODUCTORY TRAINING Chair: Stelios Lampadakis, George Pantelidis, Chrysostomos Bouras, Alkis Triantafyllopoulos</p>
		<p align="center">Introduction to HVAC Design part I George Pantelidis <i>Mechanical Engineer, MSc, EUREM, Head of Design and Projects, ZEB SA Greece</i></p> <p align="center">Introduction to HVAC Design part II Alkis Triantafyllopoulos <i>Mechanical Engineer, MSc, Mechanical Engineer, MSc in Energy Engineering, ASHRAE Global Trainer</i></p>
17:00	18:00	<p>Session 3: ASHRAE HELLENIC CHAPTER CAREER DAY Chair: Katia Bougatsou, Chrysostomos Bouras, Stelios Lampadakis</p>
		<p align="center">Participating companies and presenters</p> <p>FUJITSU GENERAL: Presented by Nineta Pavlou WESTNET: Presented by Sofia Bakoula AHI CARRIER: Presented by Maria Demertzi CONTEC: Presented by Maria Ledaki KOKOTAS: Presented by Vangelis Kokotas WILO: Presented by Ahilleas Patsiouras AIRTECHNIC: Presented by Grigoris Tsinonis MECHANICAL SOLUTIONS: Presented by Nikos Datsersis BCT GROUP: Presented by Katia Bougatsou ZEB: Presented by Marios Tsakiris</p>



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Saturday November 23, 2024

		Auditorium PARTHENON I Level: Ground	Auditorium PARTHENON II Level: Ground
09:00	09:30	Registration	
09:30	10:00	<p align="center"><u>Welcome Presentations</u></p> <p align="center">Dimitris A. Charalambopoulos, Conference General Chair Dennis Knight, ASHRAE President Ioannis Ladopoulos, Vice President Hellenic Association of Consulting Firms</p>	
10:00	11:00	<p align="center">KEYNOTE ADDRESS</p> <p align="center">Empowering Our Workforce: Building a Sustainable Future. Dennis Knight <i>ASHRAE President</i></p> <p align="center">-----</p> <p align="center">Achieving Net Zero Operation in an Existing Building Retrofit – The ASHRAE Headquarters Experience Darryl Boyce <i>P.Eng., Fellow ASHRAE, Canada ASHRAE Presidential Member 2019-20</i></p>	
11:00	11:30	Coffee Break	
11:30	13:30	<p>Session 1.1: RESILIENCE & INFRASTRUCTURE Chair: Pantelidis, Gartzounis</p> <p>A Systematic Approach for Assessing Climate Resilient Buildings and Cities Dr. Costas Balaras <i>Mechanical Engineer, Ph.D. FASHRAE, Research Director at IERSD-NOA, Athens, Greece</i></p> <p>-----</p> <p>Thermal Comfort in a Changing Climate • Dr. Anastasia Mylona <i>CEng, MCIBSE, Technical Director CIBSE, UK</i></p> <p>-----</p> <p>How to Address Requirements for Physical Climate Risks to Enhance Buildings Resilience Dr. Thodoris Katopodis <i>Mechanical Engineer, Ernst & Young, Greece</i></p> <p>-----</p> <p>Connecting the Dots from SDGs to Enterprise-Level Sustainability and ESG: A Double Materiality Necessity Elpi Karabali <i>Senior Expert, Risk, Regulation & Reporting MSc, MRes, Executive MBA, Certified Risk Professional, Premium Business Partner Capa Epsilon OSP</i></p> <p>-----</p> <p>Energy Interventions that Contribute to the Climate-Proofing of Buildings on Multiple Scales Dr. Maria Gavrouzou • <i>Physicist, Associate Researcher, NCSR Demokritos, Greece</i></p>	<p>Session 1.2: DECARBONIZATION Chair: Alkis Triantafyllopoulos, Antonia Tritou</p> <p>Does Hvac System Selection with Decarbonization Considerations Work? • Doug Cochrane <i>P.Eng., LEED AP, Mashrae, ASHRAE Director at Large (DAL) 2023-2026, Canada</i></p> <p>-----</p> <p>Does Greece Need Nuclear Energy ? Thomas Lamnidis <i>Lamnidis Law, Universite' Libre de Bruxelles, Belgium</i></p> <p>-----</p> <p>Investment Opportunities in High Performance Buildings • Aris Papadopoulos <i>President & CEO ZEB SA</i></p> <p>-----</p> <p>Energy Study and Upgrading of a Secondary Education School Building with the Aim of Creating a Zero Carbon Emissions School Building Prof. Argyro Dimoudi PhD <i>Director, Laboratory of Environmental & Energy Design of Buildings and Settlements, Democritus University of Thrace, Greece</i></p> <p>-----</p> <p>Carbon Sequestration • Janice K. Means <i>PE, LEED AP, FASHRAE, FESD</i></p>

			<i>Professor Emerita, Lawrence Technological University, Michigan, USA</i>
13:30	14:30	Lunch	
		Session 2.1: HEALTH & SAFETY Chair: Zoukos, Develekou, Lampadakis	Session 2.2: SUSTAINABILITY - DIGITAL ENVIRONMENT Chair: Triantafyllopoulos, Georgakakou, Tritou
14:30	16:30	<p>Impact of Climate Change Policies on IAQ and Health • Prof. Sani Dimitroulopoulou, PhD <i>Principal Environmental Public Health Specialist – Indoor Environments, Air Quality and Public Health, UK Health Security Agency</i></p> <p>-----</p> <p>Advancing Indoor Environmental Quality Metrics: Integrating Biomarkers and Real-Time Monitoring for Health-Optimised Buildings • Dr. John McKeon MD <i>CEO of Allergy Standards Ltd, Principal at Indoor Air Innovation and Research (iAIR) Institute</i></p> <p>-----</p> <p>Making Surgery a Safer Place for Everyone • Dr. Sofia Balamoti MD <i>MSc, EBCOG, Breast Surgeon, Private surgery at Pyrgos Apollon, Breast Specialist at IVF Athens & Leto Clinic, Greece</i></p> <p>-----</p> <p>Workplace Safety for Energy-Efficient Retrofitting Projects Alexandros Sofianopoulos <i>COO, GEPGroup, Greece</i></p> <p>-----</p> <p>Innovative Approaches to Optimizing Indoor Environmental Quality • Prof. Aleksandar Andjelkovic, PhD <i>Mechanical Engineer, Director of Energy Innovation Center, Head of Thermal Engineering Chair & Laboratory, Faculty of Technical Sciences, University of Novi Sad, Serbia</i></p>	<p>Trends: Buildings, Technologies and Tools Dr. Drury B. Crawley <i>AIA, Fellow ASHRAE, BEMP, Director, Bentley Systems, Inc.</i></p> <p>-----</p> <p>Digital Technologies and Future of Buildings • Charis Toloumis <i>Head of Business Unit Smart Infrastructure Buildings for Greece, Siemens, responsible for Digital & Software for Business Unit Smart Infrastructure Buildings Lead Country Italy</i></p> <p>-----</p> <p>Reporting First, Sustainability Second? Ensuring Accurate, Verifiable EPDs and LCAs for HVAC Products Dominik Flikweert <i>Head of Public Affairs EMEA, Senior Group Public Affairs Manager, at Systemair AB, Sweden</i></p> <p>-----</p> <p>Developing Smart Building Technology Modules to Enhance Workforce Preparedness: A Case for AI-Driven Academic and Professional Education • Filza.H. Walters <i>Multidisciplinary Engineering Department, Texas A&M University, USA</i></p> <p>-----</p> <p>Acoustics in Plumbing piping systems • Mathias Riggerbach <i>Head of Product Management Drainage and Supply Systems - Geberit International Sales, Switzerland</i></p>
16:30	17:00	Coffee Break	
		Session 3.1: HEALTH & SAFETY (cont.) Chair:	Session 3.2: POLICIES & LEGISLATION Chair: Chrysostomos Bouras, Marios Tsakiris
17:00	18:00	<p style="text-align: center;">FORUM HEALTH & SAFETY</p> <p>Panel:</p> <ul style="list-style-type: none"> ○ Dennis Knight ○ Dr. Costas Balaras ○ Dr. Sani Dimitroulopoulou ○ Dr. John McKeon MD ○ Dr. Sofia Balamoti MD ○ Anastasia Mylona ○ Thomas Lamnidis ○ Alexandros Sofianopoulos <p>Moderator</p> <ul style="list-style-type: none"> ○ Dimitris Charalambopoulos 	<p>The Role of Certification In Building Sustainability • Dr. Ali Nour Eddine <i>M.E., Senior Technical Manager at Eurovent Certification, Paris, France</i></p> <p>-----</p> <p>Beyond Energy Efficiency: Creating Thriving Indoor Environments • Sotirios Papathanasiou <i>Lead Author and Founder of Global Open Air Quality Standards, Spain</i></p> <p>-----</p> <p>Recent developments in the Energy Building Framework at EU and national level Alexandra Kornilaki <i>Attorney at Law, Associate at KBVL Law Firm – Member of Deloitte Legal Network</i></p>