

WEDNESDAY, 6 June

WELCOME DINNER

from 8 PM till 11 PM, MERCURE HOTEL

THURSDAY, 7 June

	START	Speaker	Min	END	TITLE	Summary
Session 1	09:00	OPENING Iohan NEUNER – UTCB Sorin BURCHIU – FII-UTCB/AIIR Cătălin LUNGU – FII-UTCB/AIIR/REHVA	15	09:15		Welcome speeches of RCEPB organisers
	09:15	Andy LEWRY	40	09:55	Designing The “Mind the Gap” project – Investigating the difference, in performance, between design and the building “in-use”	We have the ability to design good buildings and the knowledge to operate them in an effective and efficient manner – so why doesn’t it happen? The “Mind the Gap” project intends to collect evidence from exemplar office buildings with a range of performance; investigate the reasons for their performance; determine the under-pinning causes; and then present practical solutions to solve any underperformance. The first phase will produce a methodology based on the learnings from the trial buildings. This will be streamlined with the process then rolled out in a second phase over a larger number of buildings to produce a statistically significant sample which covers office buildings with a full range of servicing and age.
	09:55	Tuba ALTIOK	20	10:15	TTMD is 25 years old	TTMD has been founded in 1992 to develop the services given by Mechanical Engineering in heating, refrigerating, ventilating, plumbing, insulation and fire extinguishing fields. Currently TTMD is one of the biggest non-governmental organizations (NGO) in Turkey having approximately 2000 professional members of designers,

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						representatives, manufacturers, implementers, academic personal etc. TTMD is member of ASHRAE, REHVA and CLIMAMED.
	10:15	ATREA Romania Dorin SALAMAC-General Manager	15	10:30	The new level of commercial kitchen ventilation	This presentation contains the newest and up-to-date principles of the kitchen ventilation basics, plus it thoroughly describes ATREA's innovative approach and solutions.
	10:30	RO-EPB Consortium Cătălin LUNGU et co.	20	10:50	Mc001 recast and the guide for the optimum cost calculation	Four universities and two professional associations have been working in the last year on one hand for the recasted Romanian methodology Mc001 which gives the new calculation procedures for the energy performance of buildings in line with EPBD standards and on the other hand for the transposition of the EU delegated regulation 244/2012 establishing a comparative methodology framework for calculating cost-optimal levels of minimum energy performance requirements for buildings and building elements. The authors describe the state-of-the-art situation for the both topics.
	10:50	CELCO SA Irina Odor - Commercial Director, a graduate in economics, Irina Odor has more than 14 years of experience in the national construction materials industry.	15	11:05	AAC masonry - innovation for efficient homes	AAC contributes to a better living environment and manufacturers keep improving and innovating AAC to become THE solution for energy efficiency and sustainable buildings. Unfortunately, due to the lack of update on the Romanian norm on thermotechnical calculation in construction, manufacturers face many hurdles trying to market the new solutions
	11:05	Cristina STĂNIȘTEANU	10	11:15	The new set of EPB standards	
	11:15	<i>COFFEE BREAK</i>	30	11:45		
Session 2	11:45	ROUND TABLE (debate in Romanian language) Bogdan ROGIN- State Conselor Ciprian ROȘCA- Secretary of State, MDRAP Mihaela TOADER Secretary of State, MFE Cristian ERBAȘU-FPSC Michaela GAFAR-OAR Cătălin LUNGU (facilitator)	75	13:00	Simplification of the Romanian legislation in the construction field in order to fastening up the absorption of EU funds	<ul style="list-style-type: none"> • What are the Government preoccupations regarding this issue? • What is the absorption stage of the EU funds in general and for specific programs dealing with energy & construction fields? • What are the proposals of the different actors on the market (authorities, beneficiaries, patronage&professional associations...)? • What are the perspectives for the construction legislation? • Examples of Romanian projects financed from EU funds. • etc.

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		TECHNICAL VISITS FOR THE INTERNATIONAL SPEAKERS			-	EFDEN & FII Laboratories
	13:00	LUNCH & Speeches & Awards	60	14:00	-	<i>Speeches of institutional partners (AIIR-Transilvania Cluj-Napoca, AIIR-Moldavia, AIIR-Banat, AIIR-Transilvania Brasov, AIIRM-Republic of Moldavia ...)</i>
Session 3	14:00	Iolanda COLDA	20	14:20	Ventilation and air conditioning; the new epb standards and revised MC001 methodology	The technical content of the 16798 series standards for ventilation and air conditioning in buildings is presented. The author highlights the complexity and accuracy of the design, installation, operation, maintenance and inspection. She also presents the content of the recasted Mc001 Methodology concerning especially the energy consumption of ventilation and air conditioning systems.
	14:20	Karel KABELE	40	15:00	Indoor environmental quality in energy efficient buildings	Reducing energy consumption of buildings leads to a change in approach to the design and operation of buildings. WHO report and the current EPBD argue that buildings with low energy consumption provide users with greater comfort. To meet these expectations, new aspects need to be taken into account in the design, implementation and operation of buildings. One option is the introduction of a new methodology for assessing the quality of the indoor environment, based on questionnaire survey and data evaluation from building operation systems. The examples illustrate several research projects documenting changes in the quality of the indoor environment due to the introduction of energy-saving measures
	15:00	TESTO Romania Horatiu BASA-General Manager	10	15:10	TESTO new approach of the instrumentation market	
	15:10	Francesca D'AMBROSIO	40	15:50	IEQ and energy efficiency	
	15:50	DFR Systems Bogdan Dumitru Nasarimba-Grecescu PhD, third degree scientific researcher, over 20 years of experience in projects for water	10	16:00	The forgotten resource - Sustainability without water? - Creating sustainable buildings with Vacuum Sanitation Systems	The Vacuum Sanitation presentation wants to give you a proof that buildings do not necessarily have to be caught in the 19th century infrastructure trap, but can be really extremely water saving, flexible for any uses and therefore ready for the future – simply more sustainable.

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		suply and wastewater sewage systems				
	16:00	Yves FAUTRELLE	40	16:40	Improvement of the properties of micro-nanocomposite materials: myth or reality?	
	16:40	JETRUN Energo-eco Adrian MOISA-general manager	10	16:50		
	16:50	Raluca TEODOSIU	20	17:10	Online EPC pre-check tool IN ROMANIA	In order to correctly guarantee qualitative services related to buildings refurbishment it is important to help building owners through an Energy Performance Contracting. The main concepts of EPC are the right planning, financing, implementation and maintenance of a set of technical measures meant to assure important energy consumption decreases. GuarantEE program fosters the use of Energy Performance Contracting in the public and private sector across Europe by especially developing innovative EPC solutions for rented facilities, making EPC more flexible to better serve private sector clients, supporting EPC pilot projects with experienced facilitators.
	17:10	GRUNDFOS Octavian Serban BS Sales Engineer, with a engineering and master degree at Polytechnic University of Bucharest; he has a wide expertize in turn-key projects for water suply and waste water systems and also for Office Building HVAC projects.	10	17:20	Reducing the prime costs: case story of a production facility.	Grundfos will show how important is to work together with designer and beneficiary in order to find the best solution for a production facility. By changing the design and the pumping technology system, the energy costs can be reduced significantly
	17:20	<i>Entertainment & Cocktail</i>	100	19:00		

FRIDAY, 8 June

	START	Speaker	Min	END	TITLE	Summary
Session 4	09:00	OPENING Cătălin LUNGU – FII-UTCB/AIIR/REHVA Iolanda COLDA – FII-UTCB/OAER	5	09:05		Opening speeches of RCEPB organisers
	09:05	REHVA Student Competition Alexandra ENE Claudiu STANCIU	15	09:20	Innovative acoustic approach for building air permeability using experimental and numerical studies	Air infiltration represents an important parameter when designing or evaluating the energy consumption of a building. Traditional experimental models for evaluating the air permeability of a building involve large, expensive, weather-dependent or time-consuming equipment. On the other hand, predicting models or simulation programs could provide results leading to errors up to 159%. Thus, through this paper we aim to bring forward a novel innovative approach for a fast and simple estimation of the air infiltration through a building's façade and especially through window's joints.
	09:20	Ilinca NASTASE	20	09:40	Thermal comfort – changing the paradigm for energy efficiency	At CAMBI research center we are focusing on the development of combined adaptive and personal models. We believe that the set point should be dictated by the comfort level of the occupants by “changing the conditions to accord with comfort and changing comfort temperature to accord with the prevailing conditions”. The adaptive comfort approach may take credit for widening the range of acceptable comfort temperature, which makes it possible to claim more energy savings in buildings designed using this approach than those design using Fanger's approach for instance.
	09:40	ALLBIM NET Dan MORARU-General Manager	10	09:50	Why use BIM for the energy performance of buildings?	The new requirements of the EU directives and the complexity of design projects need a very precise calculation of all energy calculation parameters. BIM (building information modeling) simplifies the work of auditors. Allplan integrates all project data, including building energy analysis, allowing auditors to create multiple computational variants and compare them.
	09:50	Christian INARD	40	10:30	Development of a multiobjective optimization procedure dedicated to	Increasing energy efficiency in the building sector is essential if we are to meet the objectives of sustainable development. The district scale offers significant potential for improving energy efficiency,

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					district energy system design	particularly at the early stages of the design. Thus, a transversal approach to the optimization of the district energy system design was adopted. It was undertaken using the DIMOSIM (District MOdeller and SIMulator) simulation platform, which provides a detailed analysis of a configuration. The energy, economic and environmental aspects were combined to obtain the best overall performance. The multiobjective optimization procedure is multi-level and includes direct search and the NSGA-II evolutionary algorithm to deal with the specificities of this particular problem. Indeed, the search space contains continuous and discrete parameters, it is almost infinite and the objective functions are non-linear. This article describes the complete optimization procedure that was developed to solve this complex problem. A case study on the design of an eco-district illustrates the possibilities offered by this type of approach to obtain the best design solutions
	10:30	Jaap HOGELING	40	11:10	The role of standards in the new EPBD, what can we expect? Given the built-in flexibility of the set of EPB standards.	Current status of the set of EPB standards and the revised EPBD 2018. The main changes in the EPBD related to the EPB standards are reported. The expected implementation in the various EU MS's and the role of the flexible structure of the EPB standards to facilitate EU wide implementation via the Annex A/B approach is explained. The follow-up of the standard development and the need to organise feedback from the users of the standards via the EPB Center is explained. This EPB Center is an initiative from REHVA and ISSO and is expected to provide stakeholders and interested parties with technical support to support the implementation and dissemination of information on the set of EPB standards at national and regional level. While providing this support, also aiming to assist formulating the needs in order to support further develop, maintain and improve the set of EPB standards.
	11:10	COFFEE BREAK	20	11:30		
Session 5	11:30	Manuel GAMEIRO	40	12:10	Development of tools and key performance indicators for the long term evaluation of indoor environmental quality in buildings	Software tools and hardware systems developed to monitor Indoor Environmental Quality conditions in buildings are presented. The case study dealing with the IEQ monitoring of the town hall building of a Dutch municipality is addressed. The measuring system, the two developed software tools and the results of a virtual visit to the

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						building data base are presented passing through the different windows available in the visualization software. Long term thermal comfort KPIs are explored, comparing those suggested in ISO7730 standard with new indicators suggested by the authors.
	12:10	Horia PETRAN	20	12:30	Innovative training schemes for retrofitting to nZEB-levels - the Fit-to-NZEB Initiative	The paper presents the preliminary developments of the FIT-TO-NZEB project, which aims at increasing competence and skills of the building professionals in the field of retrofitting to NZEB-levels. Following the developments of Train-to-nZEB project, the learning outcomes for deep energy renovation programs are presented together with plans for the introduction of nZEB renovation related educational content in the curricula at all levels (universities, professional colleges, vocational training centres).
	12:30	Andrei LITIU	20	12:50	The digitalization of residential building services: comfort, convenience and control - a Romanian case study	The effects of an increasingly digitized world are now reaching into every corner of our lives. Residential building services make no exception. The futuristic perceived concept of smart home is already a reality today. This case study illustrates the out-of-the-box capabilities of devices available today on the market that control, automate and monitor the operation of building services. The presented building is a duplex i.e. two attached single-family houses. Elgato Eve accessories (Apple HomeKit compatible) have been installed for controlling, automating and monitoring the operation of the heating, cooling, ventilation and garden lighting systems. Furthermore, the Eve app provides a 'building services-user' interface through which the users can visualize the state of building services as well as monitored energy use and indoor environment quality data, manually control the building services, define timers and rules for the automated operation of building services and have remote access to the building services.
	12:50	EfDEN Mihai Băiceanu	10	13:00	EfDeN Signature – a solar sustainable house for the solar decathlon middle east 2018 dubai	A solar, sustainable, smart and user centered house built by students from Romania and Dubai for the international solar houses competition, Solar Decathlon Middle East 2018 Dubai
	13:00	Ioan Silviu Dobosi	20	13:20	HVAC systems according to destination of spaces and rooms for hospitals	The paper aims at presenting the HVAC systems for a hospital building respecting the standards in force, especially with regard to aseptic regime according to the purpose of the rooms. It is

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					necessary to observe the ventilation flows and the regime of thermal comfort in both winter and summer conditions. In rooms with a high aseptic degree as well as in the hotel area of the hospital, the installation of low temperature 7/12 ° C equipment was avoided, in order to avoid formation of condensation that may favor the appearance of the Legionella.
13:20	Viktor PETRENKO	10	13:30	Application of THERMAL comfort indicators PMV, PPD and local THERMAL comfort criteria for estimation of microclimate parameters in room on condition that building envelope is damaged	The purpose of this paper is to apply the thermal comfort parameters PMV (The predicted mean vote) and PPD (The predicted percentage dissatisfied) as well as local thermal comfort criteria in order to evaluate microclimate characteristics of interior space formed by damaged building envelopes.
13:30	Project Over4 Cătălin Sima, Ștefan Epure, Daniel Butucel	10	13:40	Over4 Renovation through Transformation	According to Romania's National Renovation Strategy, issued in 2014, the residential buildings sector in our country is composed mainly of buildings built during the communist period and based on to the current comfort requirements, they are unfit for housing. Moreover, about 80% of them will still be inhabited in 2050. Current renovation projects focus only on the building's thermal envelope reducing in the first phase the energy consumption. Baseline technology used in current renovation initiatives lacks the holistic approach, execution is unregulated and often poorly elaborated. As a result, an immediate new approach for renovation is needed.
13:40	End of the Student Competition	20	14:00		
13:40	<i>INTERNATIONAL SPEAKERS LUNCH</i>	50	14:30		