















RCEPB PROGRAM of the Xth edition - detailed version

WEDNESDAY, June 6th, 2018

WELCOME DINNER

from 8 PM till 11 PM, MERCURE UNIRII HOTEL

THURSDAY, June 7th, 2018

Session	Moderators	START	Speaker	Min	END	TITLE	Summary
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NING CEREMONY	Sorin BURCHIU Cătălin LUNGU	08:45	Sorin BURCHIU Dean of FII-UTCB AIIR president	30	09:15	W	IFICAMEI
OPENING	LONGO		Cătălin LUNGU Vicedean of FII-UTCB AIIR & REHVA vicepresiden	t			ceremony & welcome speeches of RCEPB organisers













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Session	Moderators	START	Speaker	Min	END	TITLE	Summary
	Karel KABELE	09:15	Andy LEWRY United Kingdom BREEAM Expert in Carbon and Energy Management with 20 years varied technical, marketing and management experience preceded by a further 10 years similar experience within various parts of the Environmental and Construction Sectors. He has in-depth knowledge of sustainability issues.	40	09:55	Designing The "Mind the Gap" project – Investigating the difference, in performance, between design and the building "inuse"	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 underpinning causes; and then present practical solutions to solve any underperformance. The first phase will to 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.
Session 1 - FESTIVITY HALL	Session Chair Christian INARD Rodica FRUNZULICA	09:55	Tüba Bingol ALTIOK Turkey TTMD Member of the Board of Directors of TTMD	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, representatives, manufacturers, implementers, academic personel etc. TTMD is member of ASHRAE, REHVA and CLIMAMED.
55	PRONZULICA	10:15	Dorin ŞALAMAC General Manager ATREA Romania	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	Cătălin LUNGU RO-EPB Consortium Vicedean of FII-UTCB AIIR & REHVA vicepresident	20	10:50	Mc001 recast and the guide for the optimum cost calculation	4 universities and 2 professional associations have been working in the last year for recasting Romanian methodology Mc001 which gives the new calculation procedures for the energy performance of buildings; on the other hand they transposed the EU delegated regulation 244/2012 establishing a comparative methodology framework for calculating cost-optimal levels of minimum energy performance requirements for buildings. The authors inform about the state-of-the-art situation for the both topics.

























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Se	ssion	Moderators	START	Speaker	Min	END	TITLE	Summary
	FESTIVITY HALL	Karel KABELE Session Chair Christian	10:50	Irina ODOR Commercial Director CELCO SA A graduate in economics, Irina Odor has more than 14 years of experience in the national construction materials industry.	15	11:05	AAC masonry – inno- vation 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, manufacturares face many hurdles trying to market the new solutions.
	Session 1 - FE	INARD Rodica FRUNZULICA	11:05	Cristina STĂNIȘTEANU ASRO expert Romanian Standards Association (ASRO)	10	11:15	The new set of EPB standards	All standards in the new EPB set have been adopted as national standards by the publication of the Romanian version. Most standards will be referenced in the new edition of the Methodology for the calculation of energy performance of buildings Mc001. To make the standards fully applicable, a national annex should be developed for each standard.
	COLU	MNS HALL	11:15	COFFEE BREAK	30	11:45	COFFEE BREAK	
	sion 2 – VITY HALL	Cătălin LUNGU Session Chair Raluca TEODOSIU	air 11:45	ROUND TABLE (debate in Romanian language) Bogdan ROGIN -State Conselor of the PM Ciprian ROŞCA-Secretary of State, MDRAP Mihaela TOADER-Secretary of State, MFE Cristian ERBAŞU - FPSC Michaela GAFAR - OAR	75	13:00	Simplification of the Romanian legislation in the construction field in order to fasten up the absorption of EU funds	 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? Exemples of Romanian projects financed from EU funds. etc.
		Eugen VITAN		TECHNICAL VISITS FOR THE INTERNATIONAL SPEAKERS			-	EFDEN & FII Laboratories
	COLU	IMNS HALL	13:00	LUNCH & Speeches (by invitation only)	60	14:00		Speeches of institutional partners (AIIR-Transilvania Cluj- Napoca, AIIR-Moldavia, AIIR-Banat, AIIR-Transilvania Brasov, AIIRM-Republic of Moldavia) & SPONSORS



























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Session	Moderators	START	Speaker	Min	END	TITLE	Summary
		14:00	Iolanda COLDA FII-UTCB, OAER President Professor Emeritus, FII-UTCB, working at the university since 1967	20	14:20	Ventilation and air conditioning; the new EPB standards and revised Mc001 metho- dology	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.
Session 3 - FESTIVITY HALL	Manuel Gameiro DA SILVA Session Chair Mihaela GEORGESCU	14:20	Karel KABELE Czech Republic Technical University in Prague Head of the Department of Indoor Environmental and Building Services Engineering and Vice-dean at the Faculty of Civil Engineering of Czech Technical University in Prague (CTU)	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
Sex	ANTONESCU	15:00	Horatiu BASA General Manager TESTO Romania Graduated from Faculty of Auto-mation and Computer Science from the Cluj-Napoca Technical University. He has more than 12 years experience in measuring instrumentation business.	10	15:10	TESTO new approach of the instrumentation market	We are part of a worldwide network and have access to more information than ever before. Some decisions touch the safety of a family, the energy supply of a whole neighborhood, or the health of thousands of people. These are the moments when you need certainty, the certainty that foods are safe, that cogeneration plants are running smoothly, or that compliance is met. Measuring instruments and solutions from Testo give you that certainty with precise sensors that you can rely on, with software which makes working more fun and less complex and with services working for you, so you can do your job, so you always know you're making the right decision at the right moment.

























Session	Moderators	START	Speaker	Min	END	TITLE	Summary
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		15:10	Francesca Romana D'AMBROSIO Italy University of Salerno Full Professor of Building Physics at Department of Industrial Engineering in University of Salerno (Italy).	40	15:50	IEQ and energy efficiency	This report aims to provide a general and updated picture of the relationship between energy efficiency and IEQ. In fact, these problems are currently being given more and more attention, due to the importance that the environmental quality of the confined spaces has on occupants' health and well-being and because to achieve high standards of energy efficiency can not ignore the respect of environmental quality requirements. All this is confirmed by the new EPBD recast.
- FESTIVITY HALL	Manuel Gameiro DA SILVA Session Chair	15:50	Bogdan Dumitru Nasarimba-Grecescu DFR Systems PhD, third degree scientific researcher, over 20 years of experience in projects for water suply and wastewater sewage systems	10	16:00	The forgotten resour- ce–Sustainability with- out water? Creating sustainable buildings with Vacuum Sanita- tion 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.
Session 3 - FEST	Mihaela GEORGESCU Nicolae ANTONESCU	16:00	Yves FAUTRELLE France, Grenoble Institute of Technology Yves is Emeritus Professor at Grenoble Institute of Technology. He has a scientific consultant activity in Electromagnetic processing of Materials for metallurgy industry.	40	16:40	Improvement of the properties of micronanocomposite materials: myth or reality?	According to recent studies, the addition of micro-nanoparticles (MMC)in solid materials (polymers or metal alloys) gives them interesting properties in terms of thermal conductivity, electrical conductivity and mechanical resistance. These properties open new perspectives in terms of environmental consequences. They allow for example to lighten structures while improving their mechanical characteristics, to increase the performance of electrical conductors by reducing energy losses. A review of the nanotechnology-based materials used in building industry is also presented, as well as their areas of application in this field (such as thermal insulation and UV protection, paints, adhesives, sealants and other construction materials, lighting and electric systems and components, HVAC systems - filters, water treatment systems, purifiers).
		16:40	Adrian MOISA General Manager JETRUN Graduate in foreign trade (ASE REI) and with	10	16:50	The case for high efficiency, high quality HVAC solutions – practical solutions.	High efficiency, high quality HVAC solutions reduce energy and maintenance costs and improve the quality of the working environment inside the building and the availability of the systems. All this at an initial capital expenditure just slightly higher than for a

























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Session	Moderators	START	Speaker	Min	END	TITLE	Summary
			an MBA from St Gallen (HSG), member of the Royal Institution of Chartered Surveyors, experienced in high efficiency HVAC systems and co-generation including biogas co- generation in waste water treatment plants.				'regular' building. So, how can we see more of this in the buildings of today and tomorrow?
in 3 - FESTIVITY HALL	Manuel Gameiro DA SILVA Session Chair Mihaela GEORGESCU Nicolae ANTONESCU	16:50	Raluca TEODOSIU FII-UTCB Lecturer at the Thermo-Hydraulic and Protection of the Atmosphere Systems Department (FII-UTCB).	20	17:10	Online EPC pre-check tool IN ROMANIA	Energy performance is one of the main keys of reducing household emission gas. 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. The GuarantEE project is being funded by the Horizon 2020 research and innovation program.
Session		17:10	Octavian Şerban GRUNDFOS BS Sales Engineer, with a enginering and MS degree; 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 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
FESTIVITY HALL & COLUMNS HALL		17:20	Cocktail & awards (by invitation only)	100	19:00	Enterd	tainment program & cocktail & awards ceremony Cocktail



























23rd CONFERENCE OF THE BUILDING SERVICES ENGINEERING FACULTY FRIDAY, June 8th, 2018

Session	Moderators	START	Speaker	Min	END	TITLE	Summary
FESTIVITY HALL	Francesca Romana D'AMBROSIO Session Chair Iolanda COLDA Tiberiu CATALINA	08:45	Iolanda COLDA FII-UTCB, OAER President Cătălin LUNGU Vicedean of FII-UTCB AIIR & REHVA vicepresident	20	09:05		Opening Session Opening Session Opening speeches of RCEPB organisers
Session 4 - FE		09:05	Federation of European Heating, Ventilation and Air-conditioning Associations REHVA Student Competition-Romanian Team presentation Alexandra ENE Claudiu STANCIU	15	09:20	Innovative acoustic approach for building air permeability using experimental and numerical studies	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. We established an experimental correlation between sound and air transfer. Finally, we have determined a nomogram which describes the evolution of the airtightness of a building based on the difference between outdoor and indoor sound pressure levels.

























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1ALL	Francesca Romana D`AMBROSIO Session Chair Iolanda COLDA	09:20	Associate Professor at the FII-UTCB & CAMBI research centre. She is the director of the UTCB doctoral school. Her research interests are related to IEQ and thermal comfort in particular, experimental fluid mechanics, optical methods, PIV, DIC, LDV, flow visualization.	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.
n 4 - FESTIVITY HALL		09:40	Dan MORARU General Manager ALLBIM NET	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.
Session 4	Tiberiu CATALINA	09:50	Christian INARD France, University of La Rochelle Professor at La Rochelle University since 1998. Since 2011, he is Dean of Faculty of Sciences and Deputy Head of the Institute for Research on Urban Sciences and Techniques.	40	10:30	Development of a multiobjective optimization procedure dedicated to district energy system design	The district scale offers significant potential for improving energy efficiency, 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 multilevel and includes direct search and the NSGA-II evolutionary algorithm to deal with the specificities of this particular problem. 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

























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Session 4 - FESTIVITY HALL	Francesca Romana D'AMBROSIO Session Chair Iolanda COLDA Tiberiu CATALINA	10:30	Jaap HOGELING Netherlands International projects and standards at ISSO, Chair CENTC 371 Program Committee on EPBD, Member ISO/TC 163/WG 4: Joint Working Group (JWG) between ISO/TC 163 and ISO/TC 205: Energy performance of buildings using holistic approach, Director EPB.Center	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.
COLU	JMNS HALL	11:10	COFFEE BREAK	20	11:30	COFFEE BREAK	
FESTIVITY HALL	Yves FAUTRELLE, Session Chair Andrei DAMIAN	11:30	Manuel Gameiro DA SILVA Portugal REHVA Full Professor at the Department of Mechanical Engineering, Faculty of Science and Technology of the University of Coimbra. REHVA vice-President and Chair of the Education Committee.	40	12:10	Development of tools and key performance indicators for the long term evaluation of indoor environ-mental 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 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.
Session 5 -	Florin BĂLTĂREȚU	12:10	Horia PETRAN URBAN-INCERC Head of the Centre for Energy Performance of Buildings, within "URBAN-INCERC".	20	12:30	Innovative training schemes for retro-fitting 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).

























ON	- ANNIVE						
- FESTIVITY HALL	Yves FAUTRELLE, Session Chair	12:30	Andrei LIŢIU Sweden, KTH Royal Institute of Technology Energy management & indoor environment quality advisor, conducting research on behaviour and energy performance of buildings.	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.
Session 5 - FES	Andrei DAMIAN Florin BĂLTĂREȚU	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 DOBOŞI AIIR Associate professor at the Faculty of Architecture from the "Politehnica" University of Timisoara since 1993. Prime Vice President of AIIR.	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 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.



























Yves FAUTRELLE, Session Chair	13:20	Denys VOLCHOK Ukraine Prydniprovska State Academy of Civil Engineering and Architecture Dnipropetrovsk Associate Professor at the Structural Mechanic and Strength of Material department and Deputy Dean at the faculty of Civil Engineering of PSACEA.	10	13:30	Estimation of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume	The purpose of this paper is to represent the influence of undefined data of design goal of volume on the results of rod systems displacement. We propose to use fuzzy sets as kind of uncertainty.
Florin BĂLTĂREȚU	13:30	Project OVER4 Cătălin Sima Ştefan Epure Daniel Butucel	10	13:40	Over4 Renovation through Transforma- tion	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.
Room P12		End of RCEPB 2018 Student Competition	20	14:00	RESULTS & awards cer	remony
COLUMNS HALL		LUNCH for INTERNATIONAL SPEAKERS & SPONSORS (by invitation only)	50	14:30	CONCLUSIONS & awards ceremony	
	BĂLTĂREȚU om P12	Yves FAUTRELLE, Session Chair Andrei DAMIAN Florin BĂLTĂREŢU 13:30 om P12 13:40	Yves FAUTRELLE, Session Chair Andrei DAMIAN Florin BĂLTĂREŢU 13:30 LUKraine Prydniprovska State Academy of Civil Engineering and Architecture Dnipropetrovsk Associate Professor at the Structural Mechanic and Strength of Material department and Deputy Dean at the faculty of Civil Engineering of PSACEA. Project OVER4 Cătălin Sima Ştefan Epure Daniel Butucel Om P12 13:40 End of RCEPB 2018 Student Competition LUNCH for INTERNATIONAL SPEAKERS & SPONSORS	Yves FAUTRELLE, Session Chair Andrei DAMIAN Florin BĂLTĂREŢU 13:30 LUkraine Prydniprovska State Academy of Civil Engineering and Architecture Dnipropetrovsk Associate Professor at the Structural Mechanic and Strength of Material department and Deputy Dean at the faculty of Civil Engineering of PSACEA. Project OVER4 Cătălin Sima Ştefan Epure Daniel Butucel 10 MNS HALL 13:40 End of RCEPB 2018 Student Competition 20 LUNCH for INTERNATIONAL SPEAKERS & SPONSORS 50	Vves FAUTRELLE, Session Chair Andrei DAMIAN Florin BĂLTĂREȚU 13:30 Ukraine Prydniprovska State Academy of Civil Engineering and Architecture Dnipropetrovsk 10 13:30 10 13:30 10 13:30 Project OVER4 Cătălin Sima Stefan Epure Daniel Butucel 10 13:40 10 13:40 10 13:40 10 13:40 10 13:40 10 13:40 10 13:40 10 13:40	Yves FAUTRELLE, Session Chair Andrei DAMIAN Florin BÄLTÄRETU 13:30 Listination of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume Project OVER4 Stefan Epure Daniel Butucel LUNCH for INTERNATIONAL SPEAKERS & SPONSORS 10 13:30 Listination of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume Estimation of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume Estimation of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume Estimation of maximum displacements of a truss node under conditions of strength and fuzzy goal of volume Cătălin Sima Stefan Epure Daniel Butucel 13:40 Over4 Renovation through Transformation tion RESULTS & awards cell LUNCH for INTERNATIONAL SPEAKERS & SPONSORS 14:30 CONCLUSIONS & awards CONCLUSIONS & awards CONCLUSIONS & awards



























Friday-Sunday, June 8-10th, 2018

TRIP TO DANUBE DELTA

from 3 PM on June 8 till 12 AM on June 10

RCEPB institutional partners

ACR - ROMANIAN ASSOCIATION OF CHIMNEY SWEEPERS

AFCR - REFRIGERATION AND CRYOGENIST ASSOCIATION OF ROMANIA

AGFR - THE ROMANIAN GENERAL ASSOCIATION OF REFRIGERATION

AICPS - ASSOCIATION OF STRUCTURAL DESIGN CIVIL ENGINEERS

AICVF - FRENCH ASSOCIATION OF VENTILATION AND COOLING ENGINEERS

AIIR - ROMANIAN ASSOCIATION OF BUILDING SERVICES ENGINEERS

AIRM - ASSOCIATION OF BUILDING SERVICES ENGINEERS FROM THE REPUBLIC OF MOLDOVA

AMR - ROMANIAN ASSOCIATION OF MUNICIPALITIES

ANRE - PUBLIC AUTHORITY FOR ENERGY REGULATION

ANRSC - NATIONAL REGULATORY AUTHORITY FOR LOCAL PUBLIC SERVICES

APMCR - ROMANIAN ASSOCIATION OF CONSTRUCTION MATERI-ALS PRODUCERS

ARACIS - AGENCY FOR QUALITY ASSURANCE IN HIGHER EDU-CATION

ARACO - ROMANIAN ASSOCIATION OF CONSTRUCTION ENTRE-PRENEURS

ARISI - ROMANIAN ASSOCIATION OF FIRE SAFETY ENGINEERS

ASPIR – PROFESSIONAL ASSOCIATION OF SPECIALISTS IN PRESSURE EQUIPMENT AND HOISTING

ASRO – ROMANIAN NATIONAL BODY FOR STANDARDIZATION

BPIE – BUILDINGS PERFORMANCE INSTITUTE EUROPE

CNRI – ROMANIAN NATIONAL COMMITTEE ON ILLUMINATION **CPEREE** – CENTER FOR RENEWABLE ENERGY PROMOTION AND ENERGY EFFICIENCY, ROMANIAN ACADEMY

FII - FACULTY OF BUILDING SERVICES ENGINEERING

ISC - STATE CONTROL INSPECTORATE FOR CONSTRUCTION

ISCIR - STATE INSPECTION FOR CONTROL OF BOI-LERS, PRESSURE VESSELS AND HOISTING

MDRAPFE - MINISTRY OF REGIONAL DEVELOPMENT. PUBLIC ADMINISTRATION AND EUROPEAN FUNDS

MENCS - MINISTRY OF NATIONAL EDUCATION AND SCIENTIFIC RESEARCH

OAER - ROMANIA ENERGY AUDITORS CHAMBER

OAR - ROMANIAN ORDER OF ARCHITECTS

PSC - EMPLOYERS ASSOCIATION FOR CONSTRUCTIONS COM-PANIES

REHVA - FEDERATION OF EUROPEAN HEATING, VENTILATION AND AIR-CONDITIONING ASSOCIATIONS

SRG - ROMANIA SOCIETY GEOEXCHANGE

SRT - ROMANIAN SOCIETY OF THERMAL SCIENTISTS

UAUIM - "ION MINCU" UNIVERSITY OF ARCHITECTURE AND URBANISM

UNDP – UNITED NATIONS DEVELOPMENT PROGRAMME

URBAN - INCERC - NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT IN CONSTRUCTIONS, URBAN PLANNING AND

SUSTAINABLE TERRITORIAL DEVELOPMENT "URBAN-INCERC"

UTCB – TECHNICAL UNIVERSITY OF CIVIL ENGINEERING BUCHAREST









