

REHVA Annual Conference 2015
Radisson BLU Hotel Latvija Conference Center, Riga, Latvia
8-9 May 2015
DRAFT PROGRAMME

Date: Friday 8 May 2015, 8.00-17.00

	8:00 – 10:00: REHVA STUDENT COMPETITION
10:00-10:20	<i>Coffee Break</i>
10.20-12.00: SESSION 1: EU POLICY AND REGULATION	
	Opening words by N.N. Latvia, REHVA President Karel Kabele and AHGWTEL
	Update on EU building regulations: EPBD revision and CEN standards <i>Laurent Deleersnyder, European Commission - DG Energy</i>
	EPBD legislation in practice – challenges regarding compliance and quality of the works <i>Peter Wouters, INIVE EEIG</i>
	Eurovent certification programmes for HVAC products with verified performance <i>Sylvain Courtney, Eurovent Certita Certification</i>
	Synergies in energy efficiency criteria and indoor environment quality in building certification systems <i>Maija Krizmane, Latvian Sustainable Building Council</i>
12:00-13:00	<i>Lunch Break</i>
13.00-14.45: SESSION 2: NZEB APPLICATIONS	
	Progress with national nZEB applications in the EU <i>Jarek Kurnitski, REHVA Vice-President, TTU</i>
	Danish nZEB application and energy calculation methodology <i>Søren Aggerholm, Danish Building Research Institut</i>
	Dynamic simulation as a tool for compliance approval with energy performance regulation <i>Mika Vuolle, Equa Simulation Finland Oy</i>
	Ventilation in prefabricated multifunctional building elements for modular NZE retrofitting of residential buildings (MORE-CONNECT) <i>Peter Op't Veld, Huygen Engineers & Consultants, The Netherlands</i>
	Training and Qualification Platform for Continuing Professional Development on nZEB (PROF-TRAC) <i>Anita Derjanecz, Policy and Project Officer, REHVA</i>
	nZEB refurbishment of Italian hotel buildings – a NEZEH case study <i>Stefano Corgnati, REHVA Vice-President, POLITO</i>
14:45-15:00	<i>Coffee Break</i>

15.00-16.40: SESSION 3: EPBD RELATED STANDARDS

Revision of EPBD overarching standard – time schedule and national options

Jaap Hogeling, REHVA, Chair CENTC 371 Program Committee on EPBD

Updates to ASHRAE ventilation standards

William P. Bahnfleth, ASHRAE, The Pennsylvania State University

New performance requirements for filtration and air cleaning in EN 13779/prEN 16798-3 and EN779:2012

Claus Händel, European Ventilation Industry Association EVIA

Residential ventilation in the revised EN 15251 (prEN16789-1 and DTR16789-2)

Bjarne W. Olesen, DTU, Chair CENTC 156 WG19

Large differences in real-life IAQ and Energy performance of code compliant residential ventilation systems – experience from Dutch dwellings

Rob van Holsteijn, VHK, The Netherlands

Date: Saturday 9 May 2015, 8.30-16.30

	8:30 – 10:30: OPENING SESSION AND KEYNOTE SPEAKERS		
	Awarding Ceremony of the student competition US Energy policy developments towards NZEB <i>SA Sherif, University of Florid, USA</i> nZEB New Trend or Knowledge from the Past <i>Hendrik Voll, Tallinn University of Technology, Estonia</i> Renewable Energy Development and Future Role in Energy Supply <i>Peteris Shipvoks, Riga Technical University, Latvia</i>		
10:30-11:00	Coffee Break		
	Room “1”	Room “2”	Main hall
	11.00-12.30		
	Session 4: ENERGY EFFICIENT BUILDINGS Chair: Anatolijs Borodinecs, Latvia	Session 5: HEAT PUMPS AND REFRIGERATION Chair: Agnese Lickrastina, Latvia	Poster Session
	Towards nearly-zero energy buildings: HVAC system's performances in the expected operative scenarios of Turin Energy Centre <i>Antonio Mangogna, Daniela Valagussa, Temitope Akintola, Matteo Arietti, Salvatore Cicero, Federica Mordillo, Anna Pagani, Rachele Sipione, Stefano P. Corgnati</i>	GreenHP: Next Generation Heat Pump for Retrofitting Buildings – new evaporator component for large capacity air-to-water heat pumps <i>Christoph Reichl, Thore Oltersdorf, Simon Braungardt, Marco Pröhl, Peter Benovsky, Mirza Popovac, Thomas Fleckl</i>	Optimization of Solar Cooling System in Latvia <i>Peteris Shipkovs, Janis Shipkovs, Andrejs Snegirjovs, Galina Kashkarova1, Kristina Lebedeva, Lana Migla, Vidas Lekavichius</i>
	Performance of Heat Recovery Ventilation System with Ground Source Brine Heat Exchanger Pre-Heating System in the Context of nZEB <i>Kalle Kuusk, Jaanus Hallik, Targo Kalamees, Tõnu Mäuring</i>	Improving Energy Efficiency of a Refrigeration System with a Rankine Cycle and an Expander <i>Alison Subiantoro</i>	Hydrological Performance of Green Roofs <i>Zuzana Poórová, Zuzana Vranayová</i>
	Evaluation of indoor environment in apartment buildings before and after their refurbishment <i>Dušan Petráš, Veronika Földváry, Hana Pustayová Bukovianská</i>	Development of a Hardware-in-the-Loop test method for heat pumps and chillers <i>Stutterecker Werner, Schoberer Thomas, Steindl Gernot</i>	The urban developments of Tirana after 90 years and its environmental problems <i>Mirela Tase, Manjola Xhaferri</i>
	Comparison of simplified and detailed window models in energy simulations <i>Martin Thalfeldt M.Sc., Jarek Kurnitski D.Sc., Hendrik Voll Ph.D</i>	COP Evaluation for a Membrane Liquid Desiccant Air Conditioning System Using Four Different Heating Equipment <i>Ahmed H. Abdel-Salam, Carey J. Simonson</i>	The Impact of Authorized Representatives on Energy Efficiency in Multifamily Apartment Houses and Prolongation of the Lifetime of the Buildings <i>Aleksandra Cimbale</i>

	Simulation study of solar thermal and photovoltaic collector options for solar-assisted heating of a residential building in Germany <i>Amar Abdul-Zahra , Tillman Faßnacht, Christian Glück and Andreas Wagner</i>	Simulation Study of a Heuristic Predictive Optimization Scheme for Grid-reactive Heat Pump Operation <i>Tillman Faßnacht, Manuel Loesch, Andreas Wagner</i>	Evaluation of the impact of the additional mass of an innovative AC system on the overall energy consumption of a battery electric vehicle in tropical climate <i>Srikkanth Ramachandrana, Alison Subiantoro, Ooi Kim Tiow, Masanari Ukai</i>
	Energy costs division and plants modification in a large research complex: the experience of Padova National Research Council (CNR) area <i>Francesco Fellin, Vanni Antoni, Sergio Bobbo, Lorenzo Fellin, Cesare Pagura, Martina Spolaore and Abramo Pellizzon</i>	Large-scale heat pumps review and their introduction to natural gas markets potential <i>Vasili Sakavets, Hans Havtun</i>	Analysis of thermal comfort conditions and actual energy efficiency for different heating systems in test buildings <i>Stanislavs Gendelis, Andris Jakovičs, Toms Dzenis, Liene Bandeniece</i>
12:30-13:30	Lunch Break		Structurally-oriented design of the heat insulation plastering material <i>Vladimir Kersh, Prof., PhD, Andrey Kolesnikov, ., Maria Pidkapka</i>
13.30-15.30			Energy efficiency of short-term room natural ventilation <i>Andrii Zakovorotnyi, Olga Tadlia, Pavel Krukovsky</i>
	Session 6 : INDOOR CLIMATE Chair: Galina Stankevica, Latvia	Session 7: HEAT, GAS SUPPLY AND AIR-CONDITIONING Chair: Artus Lesinskis, Latvia	Predesign stage on reconstruction of system of heat supply of the campus of SPbSTU <i>Anna Nefedova, Julia Bykova, Sergei Kosov, Nikolai Vatin</i>
	Impact of Indoor Climate on energy efficiency and productivity in office buildings <i>Galina Stankevica, Andris Kreslins</i>	The evaluation of exhaust gas condensing economizer installation at Riga CHP plants <i>Maris Kunickis, Maris Balodis, Olegs Linkevics, Polina Ivanova</i>	Modeling of indirect evaporative air cooler for thermal performance study <i>Guntars Fridenbergs, Arturs Lešinskis</i>
	Indoor air quality and thermal comfort assessment of two Portuguese secondary schools: main results <i>Luísa Dias Pereira, Luis Neto, Manuel Gameiro da Silva</i>	The solid particle emission abatement from biomass-fired boilers in district heating plants <i>Egils Dzelzitis, Aldis Jēgeris, Agnese Lickrastina, Normunds Talcis</i>	Case Study of Indoor Air Quality and Energy Efficiency in Passive House in Latvia <i>Gatis Plavenieks, Arturs Lesinskis, Ilze Dimdina</i>
	Relationship between Thermal Environmental Acceptability and Individual Characteristics in an Office <i>Shiori Saito, Masanari Ukai, Yuta Ichikawa, Tatsuo Nobe, Shigeki Kametani</i>	Heat Consumption Assessment of the Domestic Hot Water Systems in the Apartment Buildings <i>Dzintars Grasmanis, Normunds Talcis, Aldis Grekis</i>	Indirect Evaporative Cooling in Air Conditioning Systems <i>Arturs Brahmanis, Arturs Lesinskis</i>
	Compliance with Summer Thermal Comfort requirements in Apartment Buildings <i>Raimo Simson, Jarek Kurnitski, Mikk Maivel, Targo Kalamees</i>	The Technical-economic Analysis of Hot Water Supply Systems for Residential Buildings <i>Karina Tumanova, Aleksandra Cimbale</i>	The Operational and Maintenance Specificity of Heating Systems Depending on the Thermal Inertia of Buildings <i>Viktors Zebergs, Namejs Zeltins , Gita</i>

			<i>Actina, VisvaldisVrublevskis</i>
	Relationship between Thermal Environmental Acceptability and Individual Characteristics in an Office <i>Shiori Saito, Masanari Ukai, Yuta Ichikawa, Tatsuo Nobe, Shigeki Kametani</i>	Low-temperature heating systems control in low-energy buildings <i>Vojtech Mazanec, Karele Kabele</i>	Management of the Complex Energy Conservation Processes <i>Jerzy Michna, Juris Ekmanis, Namejs Zeltins, Gita Actina, Inga Puikevica – Puikevskā</i>
	Usage Survey of Personal Underfloor Air Outlet System and Thermal Environment Acceptability <i>Masanari Ukai, Kogakuin University, Yoshito Arai, Shimizu Corporation, Mitsuhiro Takahashi</i>	Session 8 BUILDING MATERIALS Chair: Martins Vilnitis	Comparison of Heat Space Energy Consumption in two Residential Buildings in Riga <i>Abdellah Zerroug, Egils Dzelzitis, Anatolijs Borodinecs</i>
	Development of Air Supply Nozzle for Stadium Chair <i>Tatsuya Yada, Tatsuo Nobe</i>	Influence of silica fume on durability of cement-based materials exposed to chlorides <i>Martina Kovalcikova, Adriana Estokova</i>	
	Analysis of indoor air quality in a naturally ventilated university building, determination of an indoor air quality indicator <i>Alžběta Kohoutková, Karel Kabele</i>	Effect of Physical Treatment on the Properties of Composites Based on Natural Fibres <i>Ivana Schwarzova, Nadezda Stevulova, Eva Terpakova, Jozef Junak</i>	
		Cellulose fibres used in building materials <i>Nadezda Stevulova, Viola Hospodarova</i>	
		Air Heating Solar Collector for Hemp Drying <i>Ilze Pelēce, Ādolfs Ruciņš, Oskars Valainis</i>	
	16.00 - Closing session of the conference		