



CONFERENCE PROGRAMME

II International Scientific Conference

ECOCOMFORT AND CURRENT ISSUES OF CIVIL ENGINEERING LVIV, UKRAINE



LVIV, UKRAINE SEPTEMBER 16-18, 2020

CONFERENCE PROGRAMME

II International Scientific Conference

ECOCOMFORT AND CURRENT ISSUES OF CIVIL ENGINEERING LVIV, UKRAINE

Important:

In order to take part in the EcoComfort 2020 online conference, you need to follow the links provided below - first for the opening ceremony, and then for the section meeting. To log in, you need to register an account on Google.com. Therefore, please try to join in advance. All participants will be able to try to join the same links one day before the conference, 15.09.2020 from 12-00 to 14-00. Administrators will be waiting for you.

First day - September 16, 2020

10⁰⁰ - 11⁰⁰ Registration

https://meet.google.com/ohx-hcco-dpf

 $11^{00} - 11^{30}$ Opening Ceremony.

Prof. Zinoviy Blikharskyy, Sc.D., Director of the Institute of Civil Engineering and Building Systems of the Lviv Polytechnic National University (Ukraine)

Prof. Vasyl Zhelykh, Sc.D., head of Department of Heat and Gas Supply and Ventilation, Institute of Civil Engineering and Building Systems of the Lviv Polytechnic National University (Ukraine)

11³⁰ – 13⁰⁰ Section meetings*

13⁰⁰ - 14⁰⁰ Break for Lunch

14⁰⁰ – 17⁰⁰ Section meetings*

https://meet.google.com/ohx-hcco-dpf

	Moderator – Roman Khmil
	Administrator – Taras Shnal
1130 - 1140	 Andriichuk, Oleksandr (et al.) Experimental Research of Strength Characteristics of Steel Fiber Reinforced Concrete Gutters and Modeling of Their Work Using the Finite Element Method
1140 - 1150	2. Babych, Evgen (et al.) Experimental Research of Strength Characteristics of Continuous Reinforced Concrete Beams with Combined Reinforcement, and Modelling Their Work by the Finite Element Method
11 ⁵⁰ - 12 ⁰⁰	3. Barabash, Maria (et al.) Simulation of the Seismic Resistance of Buildings with Account of Unlimited Soil Space
1200 - 1210	4. Bevz, Mykola Between Tradition and Innovation: The Search for Modern Architectural Forms and Structures in the Design of Wooden Churches
1210 - 1220	5. Blikharskyy, Zinoviy (et al.) Bearing Capacity of Stone Beam Reinforced by GFRP
12 ²⁰ - 12 ³⁰	6. Bobalo, Taras (et al.) Influence of the Percentage of Reinforcement on the Compressive Forces Loss in Pre-stressed RC Beams Strengthened with a Package of Steel Bars
1230 - 1240	7. Borysiuk, Oleksandr (et al.) Experimental Research Results of the Bearing Capacity of the Reinforced Concrete Beams Strengthened in the Compressed and Tensile Zones
1240 - 1250	8. Bula, Serhiy (et al.) Experimental Study of Compressed Ceramic Hollow Brick Masonry Structures Strengthened with GFRP Meshes
12 ⁵⁰ – 13 ⁰⁰	 Chernieva, Olena (et al.) Methods of Reinforcing for Engineering Restoration of Architectural Monuments

^{*}Section 1 - Construction and Structural Mechanics

1300 - 1400	Break for Lunch
	Moderator –Roman Khmil
1 4 0 0 1 4 1 0	Administrator – Taras Shnal
$14^{00} - 14^{10}$	10. Vitaliy, Dorofeyev (et al.) The Influence of Concrete Structure on the Destruction of Reinforced Concrete Bended Elements
1410 - 1420	
1410 - 1420	11. Khmil, Roman (et al.) The Probabilistic Calculation Model of RC Beams, Strengthened by RC Jacket
1420 - 1430	12. Klymenko, Yevhenii (et al.) Operation of Damaged H-Shaped Columns
14 14	12. Riyhichko, Tevilenn (et al.) Operation of Damaged II Shaped Columns
1430 - 1440	13. Kochkarev, Dmitro (et al.) Designing of Standard Cross Sections of Composite Bending
	Reinforced Concrete Elements by the Method of Design Resistance of Reinforced Concrete
1430 - 1440	14. Koval, Petro (et al.) Influence of Basalt Fiber Dispersed Reinforcement on the Work of
	Concrete Beams with Non-metallic Composite Reinforcement
$14^{40} - 14^{50}$	15. Kovalchuk, Bogdan (et al.) Strength of Reinforced Concrete Beams Strengthened Under
	Loading with Additional Reinforcement with Different Levels of its Pre-tensio
$14^{50} - 15^{00}$	16. Kushchenko, Volodymir (et al.) Monitoring of Dynamic Loads on Steel Headframes
$15^{00} - 15^{10}$	17. Lobodanov, Maxim (et al.) Influence of Damages in the Compressed Zone on Bearing
	Capacity of Reinforced Concrete Beams
$15^{10} - 15^{20}$	18. Maksymovych, Solomiya (et al.) Experimental Study of Crack Resistance and Shear
	Strength of Single-Span Reinforced Concrete Beams Under a Concentrated Load at a/d = 1 19. Romaniuk, Volodymyr (et al.) Influence of Flexibility of Bolted Joints on Rigity of the
$15^{20} - 15^{30}$	Hingeless Frame
4 = 20 4 = 40	20. Shnal, Taras (et al.) Determination of the Charring Rate of Timber to Estimate the Fire
$15^{30} - 15^{40}$	Resistance of Structures at Real Temperature Modes of Fires
$15^{40} - 15^{50}$	21. Shnal, Taras (et al.) Development of a Mathematical Model of Fire Spreading in a Three-
15 - 15	Storey Building Under Full-Scale Fire-Response Tests

*Section 2 - Building Materials

https://meet.google.com/ozr-zstt-xdc

	Madayatay Mayataya Cahal
	Moderator – Khrystyna Sobol
	Administrator – Taras Markiv
$11^{30} - 11^{40}$	Hohol, Marko (et al.) Effect of Nano-TiO2 and ETS Antifungal Agent Addition on the Mechanical and Biocidal Properties of Cement Mortars
$11^{40} - 11^{50}$	2. Kropyvnytska, Tetiana (et al.) Effects of Nano-liquids on the Durability of Brick Constructions for External Walls
$11^{50} - 12^{00}$	1. Markiv, Taras (et al.)Effect of Plasticizing and Retarding Admixtures on the Properties of High Strength Concrete
$12^{00} - 12^{10}$	2. Plugin, Andrii A. (et al.) Hydration Products that Provide Water-Repellency for Portland Cement-Based Waterproofing Compositions and Their Identification by Physical and Chemical Methods
$12^{10} - 12^{20}$	3. Pozniak, Oksana (et al.) Production of Fly Ash Aerated Concrete and Efficiency of Its Application
$12^{20} - 12^{30}$	4. Sanytsky, Myroslav (et al.) The Effect of Mechanical Activation on the Properties of Hardened Portland Cement
$12^{30} - 12^{40}$	5. Sydor, Nazar (et al.) Development of Component Composition of Engineered Cementitious Composites
$12^{40} - 12^{50}$	6. Tolmachov, Serhij (et al.) Physico-Chemical Investigations of Water Suspensions Microfillers
$12^{50} - 13^{00}$	7. Zhitkovsky, Vadim (et al.) Methodology for Calculating the Composition of Fine-Grained Concrete with High Resolution
1300 - 1400	Break for Lunch
	Moderator – Khrystyna Sobol
	Administrator – Taras Markiv
$14^{00} - 14^{10}$	8. Demchuk, Yuriy (et al.) Comparison of Bitumen Modified by Phenol Formaldehyde Resins Synthesized from Different Raw Materials
$14^{10} - 14^{20}$	 9. Sidun, Iurii (et al.) Cohesion of Slurry Surfacing Mix on Bitumens of Different Acid Numbers at Different Curing Temperatures

$14^{20} - 14^{30}$	10. Sobko, Yuriy The Methodology of Experimental Bending Moments Determination in
$14^{30} - 14^{40}$	Bridge Span Structures 11. Turba, Yurii (et al.) Crack Resistance of Concretes Reinforced with Polypropylene Fiber

*Section 3 - Environmental Engineering and Sustainability

https://meet.google.com/wrh-oxge-naq

	Madayatay Oyast Vanayalı
	Moderator – Orest Voznyak Administrator – Stepan Shapoval
$11^{30} - 11^{40}$	1. Antypov, Ievgen (et al.) Influence of Nanoparticles on the Processes of Heat Accumulation
11 -11	During Material Phase Transformations
$11^{40} - 11^{50}$	2. Buravchenko, Vsevolod (et al.) Simplified Method for Determining the Energy Efficiency
	of Window Blinds in the Field
$11^{50} - 12^{00}$	3. Fialko, Nataliia (et al.) Ukraine Energy Transition in Light of the EU Experience
00	
$12^{00} - 12^{10}$	4. Gorobets, Valery (et al.) Investigation of Preparation Processes of Liquid Feed Mixtures in
$12^{10} - 12^{20}$	Rotary Pulsating Apparatus
12 - 12	5. Gulay, Bohdan (et al.) Investigations of Compact Recuperators Acoustic Properties
$12^{20} - 12^{30}$	6. Ivaniv, Vasyl (et al.) Non-uniformity of Water Inflow into Pressure Collector-Pipeline
	Depending on the Values of Reynolds Criterion and of Inflow Jets Angles
$12^{30} - 12^{40}$	7. Kapalo, Peter (et al.) Examining the Interdependence of the Various Parameters of Indoor
1040 1050	Air
$12^{40} - 12^{50}$	8. Kapalo, Peter (et al.) The Analysis of Heat Consumption in the Selected City
$12^{50} - 13^{00}$	9. Katunsky, Dusan (et al.) Assessment of Thermal Insulation Properties of Envelope
	Structures of a Burgher House in Kosice
$13^{00} - 14^{00}$	Break for Lunch
	Moderatots – Orest Voznyak
$14^{00} - 14^{10}$	Administrator – Stepan Shapoval 10. Khmelniuk, Mykhailo (et al.) Performance Analysis of the Small-Scale Refrigeration
	System Using Natural Refrigerants and Their Mixtures
$14^{10} - 14^{20}$	11. Koval, Lidiia (et al.) Promising Trends in Design of LED Lighting Combined with Systems
	of Natural Lighting
$14^{20} - 14^{30}$	12. Labay, Volodymyr (et al.) Dependence of Evaporation Temperature and Exergetic
$14^{30} - 14^{40}$	Efficiency of Air Split-Conditioners Heat Pumps from the External Air Temperature
14 - 14	13. Lys, Stepan (et al.) Influence of Humidity of Wood Fuel on the Gasification Process in a
$14^{40} - 14^{50}$	Continuous Layer 14. Matsiyevska, Oksana (et al.) Analysis of the Water Consumption in the Apartment House –
	Case Study
$14^{50} - 15^{00}$	15. Mileikovskyi, Viktor (et al.) Precise Explicit Approximations of the Colebrook-White
1,500 1,510	Equation for Engineering Systems
$15^{00} - 15^{10}$	16. Myroniuk, Khrystyna (et al.) Technical and Economic Efficiency After the Boiler Room
$15^{10} - 15^{20}$	Renewal
	17. Petrenko, Viktor (et al.) The Calculation of Indoor Air Forecast Temperature of a Space with the Replaceable Thermotechnical Characteristics of the Enclosure Structures While in
	Operation
$15^{20} - 15^{30}$	18. Poorova, Zuzana (et al.) Humidity, Air Temperature, CO2 and Well-Being of People with
1530 1540	and Without Green Wall
$15^{30} - 15^{40}$	19. Protsenko, Serhii (et al.) Analysis of the Current Methodology Disadvantage of the
	Consumed Thermal Energy Allocation Between Consumers for Heating of Multi-apartment
$15^{40} - 15^{50}$	Buildings and Ways of its Improvement 20. Riabenko, Oleksandr (et al.) Impact of Undular Jump Characteristics on Erosion of Tailrace
	Channel
$15^{50} - 16^{00}$	21. Savchenko, Olena (et al.) Thermal Renewal of Industrial Buildings Gas Supply System
1,600 1,510	
$16^{00} - 16^{10}$	22. Savytskiy, Mykola (et al.) The Sustainable Design of the Greenhouse by Criteria of Heat
$16^{10} - 16^{20}$	Losses and Solar Heat Gains
	23. Shapoval, Stepan (et al.) Clarification of Thermal Characteristics of the Solar Collector
	Integrated into Transparent Façade

20 20	
$16^{20} - 16^{30}$	24. Snitynskyi, Volodymyr (et al.) Influence of Climatic Factors on Runoff Formation and
	Surface Water Quality of the Stryi River Basin
$16^{30} - 16^{40}$	25. Spodyniuk, Nadiia (et al.) Research of Temperature Regime in the Module for Poultry
	Growing
$16^{40} - 16^{50}$	26. Ulewicz, Malgorzata (et al.) Assessment of the Economic Feasibility of Using Alternative
	Energy Sources in Ukraine
$16^{50} - 17^{00}$	27. Velychko, Svitlana (et al.) Estimation of the Ecological Flow of Mountain River in
	Ukrainian Carpathians for Small Hydropower Projects
$17^{00} - 17^{10}$	28. Zhelykh, Vasyl (et al.) Influence of Orientation of Buildings Facades on the Level of Solar
	Energy Supply to Them
$17^{10} - 17^{20}$	29. Zhuk, Volodymyr (et al.) Maximum Daily Stormwater Runoff Flow Rates at the Inlet of the
	Lviv WWTP Based on the Results of Systematic Hydrologic Observations of the Catchment
	277 Will Bused on the Results of Systematic Tryanologic Goset values of the Caterinion

Second day - September 17, 2020

10⁰⁰ - 13⁰⁰ Section meetings*

13⁰⁰ - 14⁰⁰ Break for Lunch

14⁰⁰ - 17⁰⁰ Section meetings*

Third day - September 18, 2020

10⁰⁰ - 13⁰⁰ Section meetings*

Важливо:

для того, щоб взяти участь в онлайн конференції ЕкоКомфорт 2020, необхідно пройти за посиланнями, наданими вище - спершу для церемонії відкриття, а потім для секційного засідання. Для входу необхідна реєстрація акаунту на Google.com. Тому просимо спробувати приєднання заздалегідь.

Всі учасники зможуть спробувати приєднатись за тими самими посиланнями один день перед конференцією, 15.09.2020 з 12-00 до 14-00. Вас чекатимуть адміністратори.