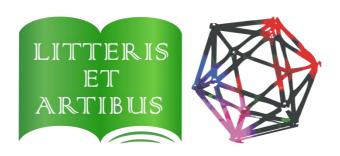
Ministry of Education and Science of Ukraine Lviv Polytechnic National University



8TH INTERNATIONAL JOINT YOUTH SCIENCE FORUM «LITTERIS ET ARTIBUS»

&

13TH INTERNATIONAL CONFERENCE «YOUNG SCIENTISTS TOWARDS THE CHALLENGES OF MODERN TECHNOLOGY»

Official Program

November 22–24, 2018 Lviv, Ukraine

SCIENCE FORUM IS ORGANIZED BY:

Lviv Polytechnic
National University
(Ukraine)
Scientific Society of
Students, Doctoral
Candidates and Young
Researchers of Lviv
Polytechnic National
University

Students and PhD Students Board and Union of Lviv Polytechnic National University Warsaw University of Technology (Poland)

PhD Students Board of Warsaw University of Technology (Poland) Foundation for Young Scientists (Poland)

Alumni Association of Lviv Polytechnic National University Wroclaw University of Science and Technology (Poland)

Foundation Manus (Poland)

Young Scientists Council at the Ministry of Education and Science of Ukraine

Association PhD of Ukraine All-Ukrainian NGO "National Students Union"

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Vice Rector for Research, Lviv Polytechnic National University

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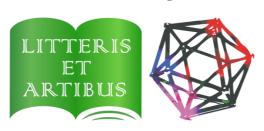
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Dr. O. IVASHCHUK, Ph.D.

General Program



THURSDAY, NOVEMBER 22, 2018

09:00 Registration of participants starts
Tech StartUp School, 2 Kolessy Str.

10:30–13:00 Ceremonial opening and plenary session

Tech StartUp School, 2 Kolessy Str.

11.00–13:00 Plenary discussion «Perspectives and Obstacles of Implementing Open Science and Open Peer Review in Eastern Europe»:

- **Gareth O'Neill**, European Council of Doctoral Candidates and Junior Researchers, NL
- **Grygoriy Mozolevych**, Ministry of Education and Science of Ukraine. UA
- Oleksandr Berezko, Scientific Society of Students, Doctoral Candidates and Young Researchers of Lviv Polytechnic National University, UA
- Artur Babyda, Warsaw University of Technology, PL
- Wojciech Wodo, Wroclaw University of Science and Technology, PL
- Yuliia Ovchynnykova, Donetsk National University, UA
- Marta Gajadhur, Warsaw University of Technology, PL

13:00-14:00	Lunch & coffee break
14:00-18:00	Forum poster and oral sessions TechStartUp School, 2 Kolessy Str.
14:00-15:00	Poster sessions of the conferences MEMST, CCT and EcoTour Conferences. Please find detailed conferences programs below in their specific sections. TechStartUp School, 2 Kolessy Str.
15:00–16:00	Poster sessions of the conferences CSE, GAC and EPECS Conferences. Please find detailed conferences programs below in their specific sections. TechStartUp School, 2 Kolessy Str.
16:00–17:00	Poster sessions of the conferences HSS, EM and LPS Conferences. Please find detailed conferences programs below in their specific sections.

17:00 Informal meeting of the Joint Forum participants

TechStartUp School, 2 Kolessy Str.

TechStartUp School, 2 Kolessy Str.

FRIDAY, NOVEMBER 23, 2018

10:00-12:00	Lviv Polytechnic National University tour
	Lviv Polytechnic National University main building,
	12 Bandera Str.

12:00–13:00 Closing ceremony. Summarizing the results of the Joint Forum. Awarding of the best conferences' presentations/posters Lyiv Polytechnic National University main building

Lviv Polytechnic National University main building, 12 Bandera Str.

13:00-14:00 Lunch break

14:00–17:00 Lviv city tour starts

In front of Lviv Polytechnic National University main building, 12 Bandera Str.

SATURDAY, NOVEMBER 24, 2018

12:00–14:00 2^{nd} Round table «Problems of Open Science in Eastern Europe»

Lviv Polytechnic National University main building, 12 Bandera Str.

10th INTERNATIONAL ACADEMIC CONFERENCE "COMPUTER SCIENCE & ENGINEERING 2018" (CSE-2018)



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9th INTERNATIONAL ACADEMIC CONFERENCE "GEODESY, ARCHITECTURE & CONSTRUCTION 2018" (GAC-2018)



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8th INTERNATIONAL ACADEMIC CONFERENCE "ELECTRIC POWER ENGINEERING & CONTROL SYSTEMS 2018" (EPECS-2018)



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8th INTERNATIONAL ACADEMIC CONFERENCE "HUMANITIES AND SOCIAL SCIENCES 2018" (HSS-2018)



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7th INTERNATIONAL ACADEMIC CONFERENCE "ECONOMICS & MANAGEMENT 2018" (EM-2018)



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7th INTERNATIONAL ACADEMIC CONFERENCE "MECHANICAL ENGINEERING, MATERIALS SCIENCE, TRANSPORT 2018" (MEMST-2018)



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7th INTERNATIONAL ACADEMIC CONFERENCE "CHEMISTRY & CHEMICAL TECHNOLOGY 2018" (CCT-2018)



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Dr. R. NEBESNYI

Lead Research Fellow, Lviv Polytechnic National University

5nd INTERNATIONAL ACADEMIC CONFERENCE "LAW AND PSYCHOLOGY 2018" (LPS-2018)



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Prof. K. TSOMPLIAK – University of Wrocław (Poland)

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5nd INTERNATIONAL ACADEMIC CONFERENCE "ENVIRONMENTAL PROTECTION, NATURAL RESOURCE MANAGEMENT AND TOURISM 2018" (EcoTour-2018)



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Prof. O. KORDAS – KTH Royal Institute
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Prof. R. PETRUS – Rzeszow University of
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CONFERENCE SECRETARY Dr. I. TYMCHUK

Lecturer, Lviv Polytechnic National University

THE JOINT FORUM POSTER AND ORAL SESSIONS

COMPUTER SCIENCE & ENGINEERING

- Klushyn Yu. Software complex for realization of mathematical models, methods and algorithms of estimation of time of execution of complex problems in multiprocessor computer systems
- Düşüncelil F., Çelik E. Gegenbauer Polynomial Method for Linear Complex Differential Equations
- Sahanovskyi V., Bochkarov O. Context-aware decision support software service
- Popova A., Lytvyn V. Development of online taxi ridesharing
- Mozil Z., Vavruk Ye. Selection of optimal path finding algorithm for data transmission in Distributed Systems
- Khobzei M., Apostolyuk M., Vovchuk D. Model of Antenna Modified by Regular Wire Media for Control of its Main Characteristics
- Diachok R., Klym H. Hardware and software complex of intellectualized orientopter-type systems
- Rzheuskyi A., Veretennikova N., Laba R., Kunanets N. Creating a virtual tour of the main building at Lviv Polytechnic National University
- Guk B., Morozov Y. Computer system for video-based Traffic Violation Detection
- Bachynskyy R., Stefanivskyi M. Monitoring and analysis of air indicators from sensors of various types in the cyberphysical system "Smart home"
- Synko A., Burov Ye. Functional model of information system of facility's business activities
- Dunets R., Chernetskyi S., Slavytiak A. Specialized computer system for controlling microclimate through recuperation
- Grebenyak A., Lykhotop D. Basic approaches to designing the structures of embedded systems
- *Havano B.* Problems of privacy and security in cyber physical systems of intellectual houses *Chipko T., Berezko L.* Software Application for Intelligent Dialog Systems Maintenance
- Bachynskyy R., Pankiv B. System for license plate recognition based on Viola-Jones algorithm
- Mulyarevich O., Turchynskyi S. Solving the dynamic travelling salesman problem with the use of evolutionary computation
- Mulyarevich O., Benovskyi B. Recognition of road signs in video images
- Hrabovskyi V., Paramud Ya. Corporate computer network with high level information security
- Petsukh R., Kytsun H. Microprocessor control system of Unmanned Aerial Vehicle
- Vavruk E., Kushnir D. Mobile system for text recognition and translation with using Microsoft cognitive API
- Alev Kelleci, Mehmet Bektas Some new results for Hasimoto surfaces
- *Prymyska S.* The cost's indicators of the homogeneous reactions in the cascade of perfect mixing reactors prediction by mathematic modelling
- Dutkevych S., Lytvyn V. Prospects of information system project for organizing volunteering activities

- Haci Mehmet Baskonus, Faruk Düşünceli Singular Soliton to the Hyperbolic Generalization of the Burgers Model
- Bilskyi D., Katrenko A. Intelligent system for forming behavior of actors in computer game Panchuk I., Lytvyn V. The Project of Information System on Organization of Tourist Trips Ihnatovych A., Pyvovar V. Password Complexity Evaluation Instruments in Access Control Components of Cyber-Physical Systems

GEODESY, ARCHITECTURE & CONSTRUCTION

- Khymytsia O., Analysis of trends in the development of hybrid housing: European experience of the 21st century
- Savchyn I., Romanovskyi A., Danyliv N. Research of horizontal movements of the earth's crust in the archipelago argentine islands (Antarctida) during period 2003-2018
- Savchyn I., Danyliv N., Zygar A., Romanovskyi A. Research of vertical dynamics of Earth's surface movements in areas of Dniester PSP
- Duma M. Dnister PSPP base GNSS network optimization
- Cilek A., Berberoglu S., Cenk D. Biotope Mapping in Wetlands Using High-Resolution Satellite Images
- Ivashchyshyn H., Kropyvnytska T., Kirakevych I. Low-Carbon Blended Cement With High Content of Supplementary Cementitious Materials
- Matsiyevska O., Buhrii M. Smart-monitoring system of the water supply network and the quality of transported water
- Golębiewski M. Hemp-Lime Bio-Composites Review and Analysis of World-Wide Architectural Examples
- Semeniv R., Kaminskyy A. Efficiency of the Modifiers Use for Protection of Brick Structures
- Surmai M., Tkach R., Hula V., Kozak R. The Experimental Research of Glass Multilayer Columns with a Central Compression
- Shkolyar S. The role of art clusters as a new form of artistic practices in urban space

ELECTRIC POWER ENGINEERING AND CONTROL SYSTEMS

- Lys S., Yurasova O., Lashkovska N. Methods of Extending the Life Cycle of a ТП-100A Boiler
- Luchko M., Biletskyi Yu. Comparative Analysis of Different Types of Dynamic Solar Tracking Systems
- Lompart Yu., Biletskyi Yu. Analysis of the feasibility of using an AC motor with new winding type for building electric vehicle
- Mariana Dobriianska Increasing the bandwidth of networks by moving to a higher voltage class
- Korchak M., Fediv Ye., Sivakova O. Virtual source of reactive power in electricity supply systems of household consumers
- Skvarok O., Kuznetsova M. Modernization of water supply system of steam generator PGV-1000
- Voloshyna I., Moroz V. Dynamic research of the rope electric drives
- Klos S., Svyryd O., Fedoryshyn R. Optimization of Analog Signal Filtration Process

- Rymar T., Kravets T., Smirnov O., Kleman V. Research of the coefficient of hydraulic resistance of padding with triangular channels of the package of cold and hot layer of RAH
- Balitskyi O., Dnistrian M., Sviastyn V. Smart technologies for common building equipment of dwelling buildings
- Kovalenko T., Galyanchuk I., Galyanchuk V. Improving power plant equipment work by applying alloyed industrial oil
- P, P, P, P and P. Computer-Aided Design of Gas Flow Temperature Measurement Errors
- Fedak Yu. Prospects of the Ukraine's energy sector development with renewable energy sources

HUMANITIES & SOCIAL SCIENCES

- Monastyrna O. The Effectiveness of Cooperative Learning in Teaching English as a Foreign Language (TEFL)
- Verkhoturova M. Guns of the 16th century from the collection of Lviv historical museum
- Ustyianovych T., Khymytsia N. Application of machine learning algorithms for the study of Galicia population's social characteristics in the interwar period (1919-1939)
- Baranovska N., Hordon D. Ukrainian national movement in Galicia through the prism of Ivan Franko's historical and cultural heritage
- Baranovska N., Herasimchuk O. The process of dispossession of the kulaks as a personal tragedy Podolsk family

ECONOMICS & MANAGEMENT

- Blahii A., Kondrat I. The impact of depreciation policy on investment.
- Dziurakh Yu. Development of innovation and investment activity in agriculture of Ukraine
- Halanets V., Dziurakh Yu. State support of agriculture in Ukraine: innovation and investment aspects
- Karpiv O., Pozniakova O. Current state and prospects of development of cryptocurrency in Ukraine
- Kulinich T., Herelius N. Factors of success of brewing enterprises (by the example of "Mykulynetskyi Brovar" LLC)
- Kulinich T., Perminova O. Preparation of ideas for a social project: methods and practice of process management
- Kulyniak I., Cherkis S. Integration of the Innovative System of Employee Adaptation at the Enterprise in the Context of Modern Challenges
- Lashchyk I., Bondarenko L. Theoretical approach to the banking crisis management model
- Melnyk O., Adamiv M., Todoshchuk A. Foreign customs experience as a basis for reforming Ukrainian customs system in terms of European integration
- Patsai T., Kondrat I. Anticrisis management goals
- Strypa N., Kondrat I. The impact of FinTech on the development of traditional banking
- Synyutka N., Kurylo O., Bondarenko L. Implementing Digital Tax Administration in Ukraine
- Yaremko I., Karkovska V. The management of the potential of the economic system
- Yaskova I., Kondrat I. Public-private partnership projects implementation

MECHANICAL ENGINEERING, MATERIALS SCIENCE, TRANSPORT

- Bojkiv M., Bura R. Question of the quality of the service of cyclist traffic
- Bura R., Maksymiuk S. Possibilities for implementation the bus rapid transit on city expressways with controlled motion
- Hrytsun O., Davosyr V. Analysis of pedestrian speed of movement within signaled pedestrian crossings
- Shtoyko I., Dolinska I., Khaburskyi Ya., Kaniuk Yu. Calculation of pipe residual lifetime of the exploited oil and gas pipelines
- Pyndyk V., Shevtsiv R., Ratych I. Scientific approaches to the provision of dangerous goods transportation
- Nowak M. Comparative tests of samples of high-speed tool steel with high-speed steel with DLC coating in terms of abrasion resistance
- Prykhodko V., Vikovych I. Organization of international carriage of goods by transport
- Vovk Yu., Furman O., Masonkov O. Dependence of the passenger's functional state changing from the public transport service quality
- Prykhodko V., Zhytenko O. Study of comfort pedestrian traffic conditions
- Szewczynski K., Blach M. The most common damage to the first generation Bosch unit injectors
- Ognik T., Soliński M. Threats at car sprayer job

CHEMISTRY & CHEMICAL TECHNOLOGY

- Kalin D., Chobit M., Tokarev V. Investigation of Mechanical Properties of Composites Filled with Modified Hydroxyapatite
- Brovarets' O., Tsiupa K., Dinets A., Hovorun D. Quantum-mechanical survey of the novel conformational and tautomeric transformations of the classical Watson-Crick A·T(WC), reverse Watson-Crick A·T(rWC), Hoogsteen A·T(H) and reverse Hoogsteen A·T(rH) DNA base pairs
- Shpyrka I., Nebesnyi R., Orobchuk O., Ivasiv V., Khalameida S., Sydorchuk V. The Effect of Hydrothermal Treatment of Silica-based Catalysts on their Efficiency in Acrylic Acid Synthesis via Oxidative Condensation of Methanol with Acetic Acid
- Melnyk S., Ostash B. The Expression of Pleiotropic and Pathway-Specific Regulators of Secondary Metabolism in Clorobiocin Producer Streptomyces Roseochromogenes NRRL3504
- Hrab P., Yushchuk O., Ostash I., Ostash B. Genes for Morphogenetic Proteins of Chaplin and Rodlin Families in Landomycin Producer Streptomyces cyanogenus S136
- Demchuk Yu., Gunka V., Sidun Yu., Pyshyev S., Lypko Yu. Effect of Phenol-Cresol-Formaldehyde Resin on Adhesive Properties of Road Bitumen
- Khalaniya O., Hnativ Z., Atamaniuk V. Production of Fuel Briquettes from Waste Biomass Organic Agriculture
- Skydanenko M., Kurdes Yu, Kononenko M., Marenok V. Binding Component Selection and Development of Technology for Granulation of Carbon-Containing Mixtures (Graphite)
- Nagurskyy A. Study of Changing the Group Composition of Bitumen When Modifying its Rubber Crumb at Different Temperatures
- Dobrovetska O., Mertsalo I., Kuntyi O. Electrochemical Reduction of CO₂ on the Modification Electrodes

- Znak Z., Sukhatskii Yu., Zin O. Decomposition of Benzene with Periodic Excitation of Cavitation
- Martynenko Yu., Antypenko O. Design of Hydrogenated Isoindolylalkyl (Alkaryl-, Aryl-) Carboxylic Acids with Quinazoline Fragment, that Modify the Carbohydrate Metabolism
- Makarova L., Zhyl'tsova S., Opeida Io. Oxidative Decolorization of Methyl Violet by Fenton Reagent in the Presence of Natural Additives
- Shved M., Prysiazhnyi Yu., Zubal O. Study of the Possibility of Using Indene-Coumarone Resin with Methacrylate Fragments as Polymer Applications for Petroleum Road Bitumen
- Orobchuk O., Subtelnyi R., Dziniak B. The Effect of pH on Emulsion Oligomerization of C₉ Fraction in the Presence of an Anionic Emulsifier
- Havryliv R., Bodnaruk V., Trynchuk V. Pressure Drop Determination in a Novel Cyclon Separator by Using Numerical Modeling Technique
- Korniichuk M., Zayarnyuk N. Study of Composition Based on Bacteria of Rhizobium and Azotobacter Genera to Develop Three-pillar Biofilm Fertilizer
- Poliuzhyn I., Smirnova O., Yatchyshyn Yo. Thin Layer Chromatography for Some Derivatives of 1,4-Naphthoquinone
- Levytska K., Masyuk A., Skorokhoda V., Melnyk S. Features of Properties of the Polylactide Composites
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