



3rd INTERNATIONAL YOUTH SCIENCE FESTIVAL "LITTERIS ET ARTIBUS"

4th INTERNATIONAL CONFERENCE
OF YOUNG SCIENTISTS
"GEODESY, ARCHITECTURE & CONSTRUCTION 2011"
(GAC-2011)

NOVEMBER 24-26 2011, LVIV, UKRAINE



CONFERENCE PROGRAMME

NOVEMBER 24

08:30 – REGISTRATION OF PARTICIPANTS STARTS

In front of the Assembly hall of the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4)

09:00 - 10:30 – LVIV STUDENT SHORT FILM RETROSPECTIVE

Assembly hall of the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4).

10:30 - 12:00 – CEREMONIAL OPENING OF THE FESTIVAL OF SCIENCE

Assembly hall of the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4).

12:00 - 13:00 – LVIV POLYTECHNIC TOUR

13:00 - 14:00 – LUNCH

*Canteen in the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4, basement).
Alternatively – University canteen (Karpins'kogo street 6)*

14:00 - 18:00 – CONFERENCE SESSIONS

SESSION 1. GEODESY

Room 502, 2nd building of Lviv Polytechnic National University (Karpins'kogo street 6)

Staroverov V., Adamenko O. Geodetic bridge monitoring

Staroverov V., Kravchenko Z. Investigation of modeling accuracy of soil foundations immersions during the monitoring of engineering environment

Medvedskij Yu. Mathematical model of moving high-rise buildings determination based on Kalman filtering

Schultz R. Analysis of approaches to engineering building surfaces modelling from surface laser scanning data

Toropa I., Pishko Yu. To the question of duration of GPS observations depending on vector lengths

Khryshchuk S. Modern tendencies of land and city-planning relations in Ukraine

Vasko A. Requirements to the optically-electronic remote sounding apparatus at creation of agricultural lands cadastre

Tkachyk O. The study of energy land use in foreign countries

Turchyn N. Influence of steam partial pressure and the air refractive index on the values of the dry and wet zenith tropospheric delay

Burshytynska Ch., Dolynska I. The determination of the resolution value of satellite imaging systems

Lopushanskiy O. Calculation of earth's inertia tensor according to the GRACE and GOCE missions data

Pavliv T. Stages of topography model construction in the area of the Black sea and the Mediterranean sea

SESSION 2. CONSTRUCTION

Room 224a, 2nd building of Lviv Polytechnic National University (Karpins'kogo street 6)

- Strukova Z.* Lean production principles in construction projects design and delivery
Spišakova M. Prefabrication – an innovative approach to reducing of construction and demolition waste
Urva M. Key factors for industrialisation in construction
Fridrich M. Use of 4D-BIM Modelling for Identifying Time-Space Safety Risks of Construction
Ivaneiko I., Mudryi I. Jib crane low capacity works
Ivaniv M. Modeling of reinforced concrete beams, strengthened with external composite armature using SP LIRA
Blikharskyi Z., Khmil R., Tsarioff Y., Popovych V. Description of Some Random Variables Statistical Distribution Laws used in Construction Reliability Calculating
Surmaj M., Surmaj B., Kravz A., Bliakhar T., Ilenkov Y. Results of research technique coupling metal, basalt-plastic and fiberglass-plastic fittings with wood
Erdem Ozturk T., Guler E. Dynamic Behavior of Reinforced Soil Retaining Structures
Peleshko I., Ivanenko V. Review of modern algorithms for Structural Optimization
Carra G. Use of fiber reinforced polymers (FRP) in construction: a sustainable alternative to traditional building materials
Kanafotskiy R., Muryn A., Davydovskiy N. Comparison of Strengthened With Ruredil X Mesh Gold and CFRP Reinforced Concrete Beams Performance
Shishkina O., Rozhkova K. The ways of management the cost of material resources during realization of construction projects
Terlyha V., Sobol Kh., Zadeberna Kh. Application of mineral additives with high specific surface in light-weight tamping cements
Stechyshyn M., Kirakevych I. Optimization of Self-Compacting Concrete compounds
Mousavi Seyed Mehdi, Fazli Abdol Hosein, Rouzmehr Fouzieh. Application of surplus and waste material in roads pavement making
Golzar Mahdi Jamali, Azharian Mehdi, Behrouzgar Hamid Khalilvandy. Improving Seismic Behaviour of Bridges with Lead Rubber Bearing in Iran
Nazereh Nejabatbakhsh, FrankenW., Uhrig R. Space Technology and GIS in ProVI based Alignment Planning
Ocheretnyi V., Kovalskyi V., Bondar A., Didenko A. Technological features of foaming agent introduction to the aerated concrete production
Rundiuk S. Automation of multi-layer environments heat conduction investigation at a non-stationary heat flow
Biks Yu. Modelling of concrete strength prediction on the fuzzy logic base with “MATLAB 7”
Rusyn B. The influence of ultrafine additives on the properties of fine grained concretes
Dzeryn O., Zhelykh V. Peculiarities of thermal conditions within a piglet area
Martynyak M. Universal and modern condensing heating module MN-500
Matsiyevska O., Shevchuk I. Deferrization of drinking-water by domestic filters
Kasynets M., Voznyak O., Shapoval S. Increase of solar panels use efficiency
Vybornov D. Mine water as a source of thermal energy
Boshota V., Zhuk V. Experimental study of water retention capacity of the exfiltration trenches for the climate of Transcarpathian region
Matlay I. Stormwater hydrograph from radial in a plan watershed with constant longitudinal slope
Sukholova I., Vozniak O., Myroniuk Kh. Air distribution in an apartment and dynamic microclimate
Lesyk Kh., Zhelykh V. Investigation of thermosiphon solar collector work effectiveness
Furdas Yu., Zhelykh V. Evaluation of heat-technical parameters of low capacity reactors
Piznak B., Zhelykh V. Polymer solar collectors in the heating supply system
Gulai B., Liashenyk A. Increase of pressure in the ventilation system by levelling of radial fan discharge flow
Ratushnyak G., Obodyanska O. Monitoring and Expert Analysis Evaluation of Reliability and Durability of External Gas-Distributing Networks Facilities
Ratushnyak G., Anokhina K. The development of bioconversion systems as effective direction in Environmental Engineering

16:00, 17:00, 18:00 – LVIV CITY WALKING TOUR STARTS

In front of the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4).

NOVEMBER 25

13:00 - 14:00 – LUNCH

*Canteen in the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4, basement).
Alternatively – University canteen (Karpins'kogo street 6)*

14:00 - 18:00 – CONFERENCE SESSIONS

SESSION 3. ARCHITECTURE

Room 218, 11th building, Lviv Polytechnic National University (Profesors'ka street 2)

- Boklag S., Petunina A., Tymofyeyev M.* External wall corner temperature measure
Chizhmak D. Principles and receptions of formation of ecological high-rise office buildings
Lukomska H. “Base module” of SPA centres functional structure
Talian J. Making a building budget in Building Information modeling system
Kridlova Burdova E., Vilčekova S. Building environmental assessment according to BEAS
Pekarchuk O. The process of clothes and linen drying in dwelling structure: architectural and planning organization peculiarities

Kušnir M., Kapalo P. Calculation of the amount of produced electricity by photovoltaic panels
Latka J. Paper structure as an inexpensive and easy to use components of temporary shelters
Dyda O. Architectural means to increase attractiveness of small Western Ukraine towns
Petrovska Y. A synthesis of arts is in work of artists of Lviv architectural school on the boundary of the 19th and the areas, based on former industrial sites drainage areas creation
Hanets S. Analysis of Recovery Methods of Post-Industrial Landscape Areas
Fedyachko K. Prospects and problems of building of parkings in Lviv
Lukomska I. Architectural and 20th centuries
Mer'ye O. Rozluch resort building architecture
Kaplinska M. Reconstruction of the market squares lost building stock in historic towns: methodological and practical aspects
Kolomyeytsev A. The Role of effectiveness and representativeness in the context of development of historical city
Blinova V., Novak N. Perspectives of fenomenology in investigation of communicative aspect in architecture
Bilinska O., Petriv M. The Exterior of Chapel of the Boim Family in Lviv
Smoliak V., Kozyniuk N. Architecture of Mozhaiskyi Palace in Voronytsia near Vinnytsia
Gorban O., Fedorov A. Rest recreational Landscape Arrangement of Prut River Valley Space on the Fragment Vorokhta – Deliatyn
Altun H., Ernur Akiner M. Risk management in megaprojects: Canal Istanbul as a case study
Bilous Yu. Museum exposition in the contemporary architectural space
Pavlysh O. Layout Planning Analysis of Shopping Malls in Vienna
Netuzhylova N. Historical Conditions of Modern Lviv Industrial Areas Development

19:00 – INFORMAL MEETING (CLOSING PARTY)

University canteen (Karpins'kogo street 6).

NOVEMBER 26

EXCURSIONS DAY

For more information please visit the official conference website – <http://gac.ukrscience.org>