

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
KYIV NATIONAL UNIVERSITY OF  
CONSTRUCTION AND ARCHITECTURE



# Conference program and proceedings

INTERNATIONAL  
SCIENTIFIC-PRACTICAL  
CONFERENCE  
OF YOUNG SCIENTISTS



KYIV  
UKRAINE  
16-18  
NOVEMBER  
2016

BUILD  
MASTER  
CLASS

**BUILD-MASTER-CLASS**



MINISTRY OF EDUCATION AND SCIENCE OF  
UKRAINE



KYIV NATIONAL UNIVERSITY OF  
CONSTRUCTION AND ARCHITECTURE



POLISH ACADEMY OF SCIENCES (KYIV OFFICE)

## WORKING PROGRAM AND PROCEEDINGS

INTERNATIONAL  
SCIENTIFIC - PRACTICAL CONFERENCE  
OF YOUNG SCIENTISTS

# «BUILD-MASTER-CLASS-2016»



# BUILD MASTER CLASS 2016

16-18 of November 2016  
In Kyiv National University of Construction and Architecture

Ukraine, Kyiv, Povitroflotskyi av., 31

## **ORGANIZER OF THE CONFERENCE**

KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE

## **CO-ORGANIZER OF THE CONFERENCE**

POLISH ACADEMY OF SCIENCES (KYIV OFFICE)

## **CONFERENCE IS SUPPORTED BY:**

- Ministry of education and science of Ukraine;
- Ministry of regional development construction, housing and municipal economy Ukraine;
- All-Ukrainian Charitable Organization "Municipal Development Institute";
- Project of the Eighth Framework Programme of European Union on Research and Technology "Horizon 2020": «Train-to-NZEB: Building Knowledge Hubs»;
- Laboratories for research of energy efficiency problems in construction and architecture "Energy Center-KNUCA";
- Scientific and Educational Hub for Architectural Designing and Research of Nearly Zero Energy Buildings (NZEB) of Kyiv National University of Construction and Architecture

## **CONFERENCE OBJECTIVE:**

Comprehensive exchange of experience in the design and construction, reconstruction and restoration of modern architecture objects. Dissemination and development of advanced computer-aided design technology and the practical aspects its implementation. Popularization of modern efficient materials, construction and technological equipment. Improving the qualification level of specialist of architectural and planning, design, construction, engineering and technical training program.

## **ORGANISING COMMITTEE:**

Kulikov Petro (Chairman)

Ploskyi Vitalii (Deputy Chairman)

Pidlutskyi Vasyl (Scientific Secretary)

Skochko Volodymyr (Head of working Committee)

Mykhailovskyi Denis (Head of technical Committee)

Andropova O.  
Berdnykh A.  
Bolharova N.  
Bondarenko O.  
Chepurna N.  
Chernenko A.  
Derevynskyi V.  
Grabovskyi A.  
Heher A.  
Honta V.  
Horelenko O.  
Hubert Yu.  
Kashchenko T.  
Klymchuk M.

Kopasova H.  
Kovalenko S.  
Kozhedub S.  
Kukharuk A.  
Lavrukhina K.  
Lisun I.  
Mikhaleva M.  
Mishchuk D.  
Piskunov S.  
Pochka K.  
Priymak O.  
Pronevych O.  
Pronevych Yu.  
Prymachenko O.

Sakh R.  
Sakharov V.  
Shabala Ye.  
Shkrobot M.  
Shkryl O.  
Sobchuk H.  
Sobolevska L.  
Tormosov R.  
Tsiutsiura M.  
Velychko S.  
Yehorov V.  
Yermakovych I.  
Yerukaiev A.  
Zolotar L.

## THEMES OF SECTIONAL AND PLENARY MEETINGS

**Plenary meetings.** Energy saving and ecological concepts in the new architecture. System solutions in design and construction. Modern training and information projects of construction industry.

**Section 1. Architecture and Design.** Theory of Architecture. Architectural design of civil buildings. Design of Architectural Environment. Architectural design. Information technologies in architecture, computer-aided engineering and design of architectural objects. Technical aesthetics, applied geometry. Energy and resource saving in construction and architecture.

**Section 2. Urban planning and land use planning.** Urban planning and land use planning. Urban planning information systems and City planning cadastre. Urban Construction and Management. Improving the efficiency of urban construction. Landscape architecture. Cadastre and land monitoring. Engineering geodesy, geoinformatics and photogrammetry.

**Section 3. Construction, materials and design technology of building production.** Structural mechanics. Building designs, buildings and constructions. Foundation Engineering. Numerical modeling of building structures. Construction materials and products. Construction Technology of production. Standardization and certification in construction..

**Section 4. Engineering systems, automated systems and environmental aspects of construction.** Heat and gas supply. Ventilation systems of buildings and constructions. Water supply and sanitation. Use of water and thermal energy resources. Automated systems and measuring systems. Electronics and electrical engineering. Ecological problems in construction and architecture. Technical thermal physics and industrial heat power. Energy efficiency of construction objects.

**Section 5. Construction vehicles and equipment.** Machines for the production of building materials and structures. Machines for earthworks, road and forestry engineering work. Handling machinery. Building Machinery Services.

**Section 6. Organization, economics and management in construction.** Organization of building production. Commodity and commercial activities. Construction Economics. Management in construction and architecture.

**Section 7. Information Technology.** Computer science. Information Technology. Information technology in education. Project and Program Management. Computer networks. Cybersecurity.

**Section 8. Historical, socio-cultural, political, legal and philosophical aspects of architecture and construction development.** Social-political development of society. Physical education and sports in the conditions of building production. History of Ukrainian culture. Pedagogy, philosophy and psychology of relationships in construction. Legal relations in construction and architecture.

## CONFERENCE VENUE

Kyiv, Kyiv National University of Construction and Architecture,  
Povitroflotskyi av., 31.

Plenary meeting – Scientific Council Hall, aud. 466  
Sectional meetings are specified during registration.

## CONFERENCE EXPOSITIONAL PROGRAM

During the Conference, the participants will be given the opportunity to present scientific and technical developments, new building materials and products, scientific and methodical publications, etc.

### PUBLICATIONS

According to the results of the conference, the best materials will be selected, which will be recommended for publication in professional editions of KNUCA.

### SCIENTIFIC COMMITTEE

Kulikov P. (Chairman) – Ukraine

Ploskyi V. (Deputy Chairman) – Ukraine

Bondar O. (Deputy Chairman) – Ukraine

Sobchuk H. (PAN) – Poland

Klymchuk M. – Ukraine

Kozhedub S. – Ukraine

Kochetov G. – Ukraine

Mykhailovskyi D. – Ukraine

Pidlutskyi V. – Ukraine

Piskunov S. – Ukraine

Priymak O. – Ukraine

Ryzhakova G. – Ukraine

Sakharov V. – Ukraine

Skochko V. – Ukraine

Sliptsov O. – Ukraine

Tovbych V. – Ukraine

Tuhai O. – Ukraine

Shebek N. – Ukraine

Shults R. – Ukraine

### CONFERENCE PARTNERS

Organizing Committee cordially thanks to Polish Academy of Sciences (Kyiv office) and personally – Prof. Henrikh Sobchuk



MUNICIPAL  
DEVELOPMENT  
INSTITUTE



European  
Commission



ENERGY  
CENTRE



**Train-to-NZEB**

The Building Knowledge Hubs

Scientific and Educational Center for  
Architectural Designing and Research of  
Nearly Zero Energy Buildings of  
Kyiv National University of  
Construction and Architecture

HORIZON 2020

## CONFERENCE'S REGULATIONS

### November, 16 (Wednesday)

- 9:00 – Participants' registration, Coffee break
- 10:00 – Opening of the conference, first plenary meeting
- 12:30 – Official opening of the Scientific and Educational Hub for Architectural Designing and Research of Nearly Zero Energy Buildings (NZEB) of Kyiv National University of Construction and Architecture. Excursion.
- 13:30 – Lunch
- 14:30 – Sectional meetings
- 16:00 – Expositional program, continuation of sectional meetings

### November, 17 (Thursday)

- 10:00 – Sectional meetings
- 13:00 – Lunch
- 14:00 – Continuation of sectional meetings
- 16:00 – Expositional program, continuation of sectional meetings

### November, 18 (Friday)

- 10:00 – Sectional meetings
- 13:00 – Lunch
- 14:00 – Continuation of sectional meetings. Expositional program
- 15:00 – Second plenary meeting. Conference resolution adoption and closing

#### Duration of performances:

Plenary meetings – up to 15 min.  
Sectional meetings – up to 10 min.

## CONTACTS

Secretary of the 1st section:	Andropova Olha,	ph.: +38 (068) 322-93-18.
Secretary of the 2nd section:	Zolotar Liudmyla,	ph.: +38 (066) 155-04-30.
Secretary of the 3rd section:	Kovalenko Sergii,	ph.: +38 (093) 631-01-90.
Secretary of the 4th section:	Sobolevska Lesia,	ph.: +38 (066) 251-89-80.
Secretary of the 5th section:	Mishchuk Yevhen,	ph.: +38 (097) 175-53-41.
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Secretary of the 8th section:	Yehorov Vladyslav,	ph.: +38 (066) 360-67-42.

For general organizational matters, please call:  
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# WORKING PROGRAMM

## FIRST PLENARY MEETING

16<sup>th</sup> of November, 2016, aud. 466

- 9:00 – Participants' registration, coffee break
- 10:00 – Opening of the conference, first plenary meeting
- 12:30 – Official opening of the Scientific and Educational Hub for Architectural Designing and Research of Nearly Zero Energy Buildings (NZEB) of Kyiv National University of Construction and Architecture. Excursion.
- 13:30 – Lunch

**1. Welcome speech by Chairman of the Organizing Committee, Rector of KNUCA, Prof. Kulikov P.**

**2. Kononowicz W., professor, Head of the department of architecture and urban planning (University of Zielona Góra)**

ISSUES OF THE MODERN URBAN PLANNING IN WROCŁAW DURING THE INTERWAR PERIOD IN THE 20TH CENTURY

**3. Ruwinski R., senior energy expert (Kyiv City State Administration)**

DEVELOPMENT OF ENERGY EFFICIENCY IN GERMANY AND UKRAINE. PARALLEL AND MODERN CHALLENGES

**4. Kozak Y., senior lecturer (KNUCA); Andropova O., assistant (KNUCA)**

PROBLEMS OF ALTERNATIVE ENERGY USING AND ENERGMODERNISATION FOR OLD KYIV BUILDINGS OF XIX CENTUR

**5. Sulatskov O., technical consultant (FDI «URSA»)**

URSA – ENERGY EFFICIENCY AND SUSTAINABLE ENERGY DEVELOPMENT.

**6. Shevchenko O., director of «heating and energy saving technologies» direction (LLC «AKLIMA»)**

MODERN HEAT PUMPS. RECUPERATION.

**7. Tormosov R., Ph.D., associate professor, executive director (All-Ukrainian Charitable Organization «Municipal Development Institute»); Skochko V., Ph.D., associate professor, director (NZEB Hub of KNUCA)**

SCIENTIFIC AND EDUCATIONAL HUB FOR ARCHITECTURAL DESIGNING AND RESEARCH OF NEARLY ZERO ENERGY BUILDINGS (NZEB) OF KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE: EUROPEAN ENERGY EFFICIENT TECHNOLOGIES IN CONSTRUCTION AND ARCHITECTURE

**8. Krutius V., sales and marketing director; Grechin V., technical consultant («Wienerberger» LLC)**

CERAMIC BLOCKS POROTHERM OPTIMAL WALL MATERIAL FOR CONSTRUCTION OF HOUSES WITH LOW POWER CONSUMPTION

**9. Machulko A., CEO («Gefest» LLC)**

EXTERNAL ACTIVE INSULATION SYSTEM – HEATING/COOLING SOLUTION. COMPLEX SYSTEMS

**10. Lakshtanov A., key project engineer (Hilti (Ukraine) LTD)**

INNOVATIVE TECHNOLOGIES IN ENERGY EFFICIENT CONSTRUCTION

**11. Bashynsky D., sales department engineer (LLC «NPP Technologiya»)**

FOAM GLASS – ECOLOGICAL COMPATIBILITY AND RELIABILITY.



## SECTION 1.

### *Architecture and Design*

16<sup>th</sup> of November, 2016, aud. 101 (Faculty of Architecture)

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Gorina A., Ph.D., associate professor (KNUCA)**

RACECOURSE ADAPTABILITY IN A LARGE CITIES

**2. Kysil S., Ph.D., associate professor (KNUTD)**

TRENDS OF CARS STORAGE IN MECHANIZED MULTI-STOREY PARKING GARAGES IN DENSELY BUILT-UP AREAS OF THE LARGEST CITIES

**3. Iarova N., Ph.D. candidate (Wroclaw University of Technology)**

OVERVIEW OF MODERN TRENDS IN DESIGN OF TIMBER ROOF STRUCTURES OF PUBLIC BUILDINGS

**4. Orlenko M., president of corporation («Ukrrestavratsiya»); Li Shuan, postgraduate (KNUCA)**

STUDYING AND PROTECTION OF A.N. OBJECTS IN CHINA

**5. Chobitko O., postgraduate (KNUCA)**

THE ARCHITECTURAL FORMS OF UKRAINIAN MONUMENTS IN PICTURES OF TARAS SHEVCHENKO

**6. Potselueva N., postgraduate (PJSC «KyivZNIIEP»)**

ACTUALITY OF CREATION AND BUILDING OF MODERN NARCOTOLOGICAL CENTERS FOR PROVIDING OF MORE DEEP TIMELY HELP

**7. Kostiuk O., Ph.D., assistant (KNUCA), senior lecturer (KNUTD)**

DESIGN OF COMMUNITY COURTYARD AREA FOR HOUSING ENVIRONMENT

**8. Savchenko V., student (NU «LP»); Agieieva G., Ph.D., senior researcher (NAU)**

AIRHOTELS: THE MAIN TRENDS IN THE IMPLEMENTATION OF ENERGY EFFICIENT SOLUTIONS

**9. Ostapiuk D., postgraduate (KNUCA)**

FORMATION AND DEVELOPMENT OF HIGHER EDUCATION ESTABLISHMENTS BUILDING TYPOLOGY IN THE TERRITORY OF UKRAINE

**SECTION 2.**  
*Urban planning and land use planning*  
16<sup>th</sup> of November, 2016, aud. 323

14:30 – Sectional meeting  
16:00 – Expositional program, continuation of sectional meetings

**1. Kovalenko M., postgraduate (KNUCA); Pleshkanovska A., Doctor of Science, professor (KNUCA)**

SOCIOLOGICAL AND URBAN PLANNING ASSESSMENT OF CITY GREEN SPACES

**2. Mykhalova M., assistant (KNUCA)**

FACTORS INFLUENCING THE DECISION MAKING ON LAND COMPULSORY PURCHASE AT DIFFERENT LEVELS

**3. Bugaenko I., assistant (KNUCA)**

THE STORY OF THE NATIONAL NATURAL PARK IN THE WORLD AND UKRAINE

**4. Ponomarova M., student (KNUCA)**

ESTABLISHMENT OF LAND MARKET RELATIONS IN UKRAINE: ANALYSIS OF CHALLENGES

**5. Didichenko M., postgraduate (KNUCA)**

CURRENT TRENDS IN THE SPATIOTEMPORAL COMPOSITION OF HISTORICAL CITIES

**6. Machowska M., graduate student (University of Zielona Góra)**

SUSTAINABLE DEVELOPMENT IN MODERN ARCHITECTURE

**7. Pachut P., student (University of Zielona Góra)**

CREATION OF SAFE SPACE IN EXISTING RESIDENTIAL SETTLEMENTS ON THE BASIS OF THE «CPTED» AND THE «SECURE BY DESIGN» METHODS

**8. Savchuk I., graduate student, assistant (KNUCA); Klyushnichenko E., Doctor of Science, professor (KNUCA)**

PUBLIC HEARINGS. FOREIGN EXPERIENCE

### SECTION 3.

#### *Construction, materials and design technology of building production*

16<sup>th</sup> of November, 2016, aud. 102 (main building)

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Mavdyk A., (KNUCA); Pidlutskyi V., Ph.D., associate professor (KNUCA)**

MODERN METHODS OF CALCULATING WIND LOADS AND THEIR EFFECTS ON BUILDING'S UNDERGROUND AND FOUNDATION CONSTRUCTIONS

**2. Levenko G., assistant (NUUE)**

INFLUENCE PERACETIC ACID NAMEHANICHESKIE PROPERTIES SANDY AND SILTY CLAY SOILS

**3. Chepurna S., assistant (KNUUE of O. Beketov)**

INCREASE OF ADDITIVE OF FINELY-DISPERSED CHALK ON STRENGTH OF CONCRETE

**4. Konstantynovskiy O., Ph.D., senior lecturer (KNUCA); Kovalchuk A., student (KNUCA)**

THE EFFICIENCY OF CHEMICAL ADMIXTURES IN DRY MIXES BASED ON ALKALI ACTIVATED PORTLAND CEMENTS

**5. Petrovskiy A., Ph.D., professor (OSACIA); Borisov A., Ph.D., associate professor (OSACIA)**

RESEARCH THE EFFECT OF VARIOUS COMPOSITIONS OF IMPERVIOUS SCREEN ON THE FILTRATION COEFFICIENT

**6. Hontar A., student (KNUCA); Shpakova A., Ph.D., associate professor (KNUCA)**

COORDINATION ALGORITHM OF ARCHITECTURAL AND CONSTRUCTION, ORGANIZATIONAL AND TECHNOLOGICAL SOLUTIONS DURING THE INFRASTRUCTURE CONSTRUCTION

**7. Kyrkach B., Ph.D., associate professor (NTU «Kharkiv Polytechnic Institute»); Kyrkach O., senior lecturer (NTU «Kharkiv Polytechnic Institute»)**

DETERMINATION OF SAFE PARAMETERS OF AN ICE PROTECTION STEEL STRUCTURE

**8. Kotenko K., postgraduate (KNUCA); Tkachenko I., deputy director general («International Exhibition Center»)**

MEANS TO ENHANCE THE DIAGNOSIS OF TECHNICAL CONDITION IN BUILDING CONSTRUCTIONS

#### SECTION 4.

*Engineering systems, automated systems  
and environmental aspects of construction*

16<sup>th</sup> of November, 2016, aud. 150

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Moiseienko V., Ph.D., assistant (KNUCA); Gryshko K., student (KNUCA)**

THE PECULIARITIES OF POLYMERIC MATERIALS FOR DESIGN OF SOLAR COLLECTORS

**2. Chermalyh O., Ph.D., associate professor (NTUU «Igor Sikorsky KPI»); Bichkivskiy O., postgraduate (NTUU «Igor Sikorsky KPI»)**

MODELING WIND FLOW NEAR URBAN AREAS BY DETERMINING THE OPTIMAL PLACEMENT OF WIND TURBINES

**3. Bezklubenko I., Ph.D., associate professor (KNUCA); Ryabchun Yu., postgraduate (KNUCA)**

ASPECTS OF APPROACH OF SYSTEMS TO OPTIMIZATIONS OF ENGINEERING NETWORKS

**4. Lobov V., Ph.D., associate professor (SHEI «Kryvyi Rih National University»); Lobova K., Student (SHEI «Kryvyi Rih National University»)**

CONTROLLING THE SPEED OF PALLET CONVEYOR ROASTING MACHINES

**5. Lobov V., Ph.D., associate professor (SHEI «Kryvyi Rih National University»); Neskromna M., student ((SHEI «Kryvyi Rih National University»)**

MODAL REGULATOR FOR A PROCESS OF FIRING PELLETS IN A CONVEYOR-TYPE KILN CONTROLLING

**6. Petruchenko A., postgraduate (NTUU «Igor Sikorsky KPI»)**  
MANAGEMENT SYSTEM OPTIMISATION OF TWO-CHANNEL POSITION ELECTRIC DRIVE WITH FUZZY CONTROLLER

**7. Marchenko I., postgraduate (KNUCA); Kotovenko O., Ph.D., associate professor (KNUCA)**

RESEARCH OF INFLUENCE OF COAL HEAPS ON THE ATMOSPHERE

## **SECTION 5.**

### ***Construction vehicles and equipment***

16<sup>th</sup> of November, 2016, aud. 207

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Balaka M., assistant (KNUCA)**

**JAW GRIPPER FOR FORCED UNLOADING OF TIMBER IN THE VEHICLE**

**2. Mischuk D., Ph.D., associate professor (KNUCA); Loveykin V., Doctor of Science, professor (NULESU)**

**THE SYSTEM OF PROPORTIONAL HYDRAULIC CONTROL A MANIPULATOR ROBOT**

**3. Korotkov E., student (KNUCA); Volianiuk V., Ph.D., associate professor (KNUCA)**

**IMPROVEMENT OF THE EQUIPMENT SCRAPER**

**4. Abrashkevych Y., Doctor of Science, professor (KNUCA); Machyshyn G., Ph.D., associate professor (KNUCA); Gnatyuk V., student (KNUCA)**

**MACHINE PORTABLE FOR SURFACE CLEANING**

**5. Abrashkevych Yu., Doctor of Science, professor (KNUCA); Machyshyn G., Ph.D., associate professor (KNUCA); Ovseychuk O., student (KNUCA)**

**STANDS FOR TESTING OF REINFORCED ABRASIVE CIRCLES**

## SECTION 6.

### *Organization, economics and management in construction*

16<sup>th</sup> of November, 2016, aud. 606

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Zapechna Yu., Ph.D., associate professor (KNUCA); Oliferuk S., senior lecturer (KNUCA); Ryazanov A., graduate student (KNUCA)**

TECHNO-ECONOMIC ANALYSIS AS A MEANS OF MONITORING THE TARGETS AND IMPROVE PRODUCTION EFFICIENCY

**2. Timofeev Yu., associate professor (KNUCA)**

SCIENTIFIC AND INDUSTRIAL COOPERATION: THE ORGANIZATIONAL PRECONDITIONS AND THEORETICAL SUBSTANTIATION

**3. Novykova I., Ph.D., associate professor (KNUCA)**

AREAS OF COMPETITIVENESS OF CONSTRUCTION ENTERPRISES IN MODERN CONDITIONS

**4. Menelyuk O., Doctor of Science, professor (OSACEA); Nikiforov O., postgraduate (OSACEA)**

ALGORITHM OF MANAGEMENT OPTIMIZATION OF GRAIN STORAGE CONSTRUCTION ENTERPRISES

**5. Novykova I., Ph.D., associate professor (KNUCA); Omelianenko M., student (KNUCA)**

HUMAN CAPITAL AND ITS IMPACT FOR ECONOMIC DEVELOPMENT

**SECTION 7.**  
***Information Technology***  
16<sup>th</sup> of November, 2016, aud. 368

14:30 – Sectional meeting  
16:00 – Expositional program, continuation of sectional meetings

**1. Fedusenko O., Ph.D., associate professor (KNUCA); Yerukaiev A., postgraduate (KNUCA)**

GENETIC ALGORITHMS REALIZATION USING PRODUCTION RULES  
IN THE FORM OF EXPERT SYSTEMS

**2. Lyaschenko T., senior lecturer (KNUCA); Hryshunina M., student (KNUCA)**

THE INTRODUCTION OF DISTANCE LEARNING IN THE LEARNING  
PROCESS

**3. Lyaschenko T., senior lecturer (KNUCA); Panasenko Ya., student (KNUCA); Kovtun K., student (KNUCA); Kliches V., student (KNUCA)**

PROTECTION OF INFORMATION

**4. Myronov O., graduate student (KNUCA)**

SYSTEMATICS STANDARDIZED APPROACH TO IMPROVE THE  
QUALITY OF EDUCATIONAL ACTIVITIES IN HEI

**5. Tereykovskaya L., Ph.D., assistant (KNUCA); Tereykovskiy I., Doctor of Science, professor (NTUU «Igor Sikorsky KPI»)**

CONCEPTUAL MODEL TO ENSURE THE EFFECTIVENESS OF  
NEURAL NETWORK RECOGNITION OF PHONEMES IN A DISTANCE  
LEARNING SYSTEM

**6. Biloschytskyy A. PhD, professor, vice dean of scientific work (T. Shevchenko NU of Kyiv); Tarasenko M., Ph.D., student (KNUCA)**

REVIEW OF EXISTING PUBLICATIONS ON SOCIAL NETWORK  
ANALYSIS

**7. Kuznetsov M., postgraduate (KNUCA)**

MODERN REMOTE SENSING OF AGRICULTURAL LAND AND THEIR  
TASKS

**8. Honcharenko T., senior lecturer (KNUCA); Lysytska Yu., student (KNUCA)**

MODERN INFORMATION SYSTEMS IN BUILDING PLANNING



## SECTION 8.

### *Historical, socio-cultural, political, legal and philosophical aspects of architecture and construction development*

16<sup>th</sup> of November, 2016, aud. 302

14:30 – Sectional meeting

16:00 – Expositional program, continuation of sectional meetings

**1. Kirichenko I., Dean of the Faculty of Fine Arts, associate professor (National Academy Art and Architecture); Novikova Z., student (National Academy Art and Architecture)**

DEVELOPMENT OF UKRAINIAN GRAFIC ARTS EARLY XX CENTURY

**2. Oliinyk N., student (KNUCA); Domkin P., Ph.D., associate professor (KNUCA)**

PHENOMENON OF DUAL FAITH IN KYIVAN RUS

**3. Obrizkiv A., postgraduate (KNUCA); Bridnia L., Ph.D., associate professor (KNUCA)**

FROM ANCIENT TO MODERN – FROM «VICHE» TO UNITED TERRITORIAL COMMUNITIES

**4. Volinets M., student (KNUCA); Panibudlaska A., Ph.D., associate professor (KNUCA)**

POLITICAL POWER

**5. Voloshyna K., Ph.D., student (KNUCA); Panibudlaska A., Ph.D., associate professor (KNUCA)**

POLITICAL SCIENCE IS A SOCIAL SCIENCE

**6. Hirych A., student (KNUBA); Diomkin P., associate professor (KNUBA)**  
THE ARCHITECTURE OF ORTHODOX CHURCHES IN 14-16 CENTURY IN UKRAINE

**7. Kyznietsova A., student (KNUCA); Prymachuk J., student (KNUCA); Dyomkin P.**

HRUSHEVSKY'S ATTITUDE TO THE UKRAINIAN REVOLUTION

**8. Kyrnos A., student (KNUCA); Domkin P., associate professor (KNUCA)**  
BRUTALISM AS THE FLOURISHED MOVEMENT IN THE ARCHITECTURE IN 50-70S. THE RELEVANCE OF THE PROBLEM OF BRUTALIST BUILDINGS NOWADAYS

## SECTION 1.

### *Architecture and Design*

17<sup>th</sup> of November, 2016, aud. 101 (Faculty of Architecture)

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**1. Malik O., student (KNUTD)**

CURRENT ISSUES OF ESTABLISHING KID'S PLAYGROUNDS IN PUBLIC INTERIORS FOR FAMILY VISITS

**2. Cherniak A., postgraduate (KNUCA)**

CURRENT TRENDS IN FORMING OF SANATORIUM ESTABLISHMENTS BASED ON THERMAL SPRINGS OF TRANSCARPATHIA

**3. Kuriat P., postgraduate (KNUCA)**

FACTORS INFLUENCING ON FORMING OF AFFORDABLE HOUSING IN SMALL AND MEDIUM TOWNS OF UKRAINE

**4. Kazakova M., postgraduate (OSACEA)**

BASIC PRINCIPLES AND METHODS OF DIGITAL ARCHITECTURE FORMATION IN THE CONTEXT OF CURRENT ARCHITECTURAL PARADIGM

**5. Poliakova O., assistant, postgraduate (KNUTD)**

STRUCTURAL RESEARCH MODEL OF DESIGN PRINCIPLES OF HOUSING ENVIRONMENT EQUIPPED WITH THE INTELLIGENT CONTROL SYSTEMS

**6. Maslova S., senior lecturer (PNTU by Yuri Kondratyuk)**

METHOD OF SELECTION THE DESIGN SCHEMES OF ROOFS BASED ON ANALYSIS OF NATURAL FORMS

**7. Bachyns'ka O., senior lecturer (KNUCA)**

THE GREEK TEMPLES OF NIZHIN

**8. Brovarnyk A., student (KNUCA)**

ARCHITECTURAL PLANNING FEATURES OF EARTH-COVERED ENERGY-EFFICIENT DWELLING HOUSES

**9. Karimi V., postgraduate (KNUCA)**

MEDIA LIBRARY BUILDING AS A COMPONENT OF THE SOCIO-CULTURAL SPACE OF BIG CITIES

**10. Syngaievskya M., postgraduate, assistant (KNUCA)**  
FORMATIVE PRINCIPLES OF THE LEADERS OF AVANT-GARDE  
ARCHITECTURE IN 1920 – EARLY 1930

**11. Morozik A., postgraduate (KNUCA)**  
METHODICAL BASES OF THE RESEARCH OF URBAN PLANNING  
DECISIONS OF ARCHITECTURAL AND PLANNING STRUCTURES IN  
MILITARY TOWNS

**12. Golub K., postgraduate (KNUCA)**  
FEATURES OF RATHOUSES FORMATION IN UKRAINE

**13. Volkova A., student (NAU); Agieieva G., Ph.D., senior researcher (NAU)**  
«GREEN» BUILDING COMPLEX ACCENTS OF ARCHITECTURE IN  
MODERN AIRPORT

**14. Savchenko V., student (NU «LP»); Agieieva G., Ph.D., senior researcher (NAU)**  
AIRHOTELS: THE MAIN TRENDS IN THE IMPLEMENTATION OF  
ENERGY EFFICIENT SOLUTIONS

**15. Danko K., assistant (PNTU by Yuri Kondratyuk)**  
THE BASIC TECHNIQUES OF ENERGY EFFICIENT RESIDENTIAL  
HOUSING IN THE HISTORIC ENVIRONMENT

**16. Giovani V., postgraduate (OSACEA)**  
MULTI-STATION COMPLEX AS A NEW TYPE OF TRANSPORT  
INFRASTRUCTURE IN UKRAINE

**17. Deshko V., Doctor of Science, professor (NTUU «Igor Sikorsky KPI»); Buyak N., postgraduate (NTUU «Igor Sikorsky KPI»)**  
SENSITIVITY ASSESSMENT OF BUILDING ENERGY NEED FOR  
HEATING

**18. Trehubov K., Ph.D., senior lecturer (PNTU by Yuri Kondratyuk)**  
PRINCIPLES OF ARCHITECTURAL AND PLANNING ORGANIZATION  
OF MULTIFUNCTIONAL MUSEUM COMPLEX

**19. Ryzkhova K., graduate student (OSACEA)**  
FLEXIBILITY AND ADAPTABILITY AS KEY FACTORS IN THE  
CREATION OF RESEARCH LABORATORY BUILDINGS

**20. Patenko Yu., Ph.D. (PNTU by Yuri Kondratyuk)**  
DETERMINATION OF ACCIDENTAL CRANE LOADS PARAMETERS

**SECTION 2.**  
*Urban planning and land use planning*  
17<sup>th</sup> of November, 2016, aud. 323

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting  
16:00 – Expositional program, continuation of sectional meetings

**1. Polomanyi S., postgraduate (KNUCA)**

THE ANALYSIS AND ASSESSMENT OF LANDSCAPES AND ENGINEERING GEOLOGY CONDITIONS OF PROSPECTIVE HOUSING AND MIX USE AREAS WITHIN KYIV CITY TERRITORY

**2. Davidenko N., laboratory assistant (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**

WAYS FOR ARCHITECTURAL AND PLANNING ORGANIZATION OF NEW SETTLEMENTS IN DEAD AREAS OF NUCLEAR PLANTS (ON EXAMPLE OF LINEAR TOWN IN CHERNOBYL ZONE)

**3. Didych V., Doctor of Architecture, professor (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**

MODERN TRENDS IN LANDSCAPING AND GARDENING URBAN COASTAL AREAS (FOR EXAMPLE, THE WATERFRONT OF TERNOPIL POND)

**4. Shchetinin S., student (NUUE); Bezlyubchenko E., Ph.D., associate professor (NUUE)**

ANALYSIS OF MALLS IN UKRAINE

**5. Kompaniets I., student (NUUE); Bezlyubchenko E., Ph.D., associate professor (NUUE)**

RENOVATION OF INDUSTRIAL AREAS

**6. Pryimachenko A., Ph.D. (KNUCA); Kobzar A., senior engineer («SE» UkrNDPItsyvilbud»)**

SELECTING THE PRINCIPLES OF COMPLEX ENGINEERING SOLUTIONS ANTI MEASURES

**7. Slipchenko Y., student (KNUCA)**

MODERN TRENDS IN RECONSTRUCTION OF COASTAL INDUSTRIAL TERRITORIES

**8 Gamalya A., student (KNUCA)**

NATURAL LANDSCAPE RENOVATION OF URBAN COASTAL AREAS

**9. Vozniak O., student (KNUCA)**

NEW APPROACHES TO MODERNIZATION OF HISTORICAL EXISTING FLEET SMALL CITIES FOR EXAMPLE THE PARK OF CULTURE AND RECREATION IN BORISLAV CITY

**10. Synhaivska O., Doctor of Science, professor (KNUCA); Davydenko I., postgraduate (KNUCA); Fenchenko E., graduate (KNUCA)**

SPECIAL ASPECTS OF BARRIERS IN ZOO EXPOSITORY AREAS

**11. Oberemok O., student (KNUCA)**

CURRENT TRENDS IN MODERNIZATION OF URBAN RECREATIONAL COAST AREAS (ON THE EXAMPLE OSTASHIVSKYI POND IN UMAN)

**12. Ilnitsky K., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**

THE MODERN TENDENCIES OF ACCOMPLISHMENT AND PLANTATION OF LEISURE ZONES OF THE SEA-FRONTS THROUGH THE EXAMPLE OF THE ODESSA LANGERONE BEACH

**13. Anistratenko M., student (NUUE); Apatenko T., senior lecturer (NUUE); Bezlubchenko O., Ph.D., associate professor (NUUE)**

MODERN TRENDS OF LOCAL GOVERNMENT'S REFORMING

**14. Kravchenko K., postgraduate (KNUCA)**

EXPLOITED ROOFS, AS AN ADDITIONAL RESERVE AREA, IN A DENSE CITY BUILDING

**15. Pestrikova-Orion A., Ph.D., associate professor (PSACEA)**

THE PRINCIPLES OF NEW BUILDING CONSTRUCTION IN THE CENTRAL PART OF THE CITY (AN EXAMPLE OF DNIPROPETROVSK)

**16. Sayenko D., postgraduate (OSACEA); Kowalski L., Doctor of Science, professor (KNUBA)**

HISTORY OF FORMATION OF KINDERGARTENS NETWORK OF A BUILT AND ATTACHED TYPE IN TERMS OF URBAN ODESSA

**17. Zubok O., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**

ENVIRONMENTAL TRENDS IN LANDSCAPE PLANNING OF PUBLIC SPACES

**18. Pryimachenko O., Ph.D., associate professor (KNUCA); Reukha Y., graduate student (KNUCA)**

ANALYSIS OF CALCULATING METHODS  
OF THE EARTH VOLUME MASSES IN DESIGN

**19 Smolenko Yu., student (KNUCA)**

INNOVATIVE TRENDS IN ARCHITECTURAL PLANNING OF BURIAL  
PLACES IN THE LARGEST CITIES

**20. Bugaienko O., assistant (KNUCA)**

DEMANDS TO LAND REALLOCATION AT LAND CONSOLIDATION

**21. Golub A., assistant (KNUCA)**

THE FEATURES OF NATIONAL PARK PLANNING ORGANIZATION

**22. Osetrin M., Doctor of Science, professor (KNUCA); Gagaro T., postgraduate (KNUCA)**

TOWN-PLANNING GROUNDING OF HIGHWAY STREAM CROSSING  
PLACEMENT ON THE TOWN PLAN

**23. Zhydkova T., Ph.D., associate professor (NUUE); Chepurna S., assistant (NUUE)**

ATTRACT STUDENTS TO THE REAL DESIGN WORK

### SECTION 3.

#### *Construction, materials and design technology of building production*

17<sup>th</sup> of November, 2016, aud. 102 (main building)

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**1. Gasan Y., professor (KNUCA); Drozdova O., postgraduate (KNUCA)**  
REPELLENT SOLUTION BASED ON SULFUR AND TITANIUM  
DIOXIDE FOR PRODUCTS OF GYPSUM BINDERS

**2. Davydenko O., Ph.D., associate professor (NULEU)**  
STRESS-STRAIN STATE AND DEFORMING CAPABILITY OF REINFORCED  
CONCRETE ELEMENTS OF CIRCULAR CROSS-SECTION UNDER THE  
ACTION OF SHEAR FORCES

**3. Bilyk S., Doctor of Science, professor (KNUCA); Tonkacheiev V.,  
postgraduate (KNUCA)**  
NUMERICAL STUDIES OF THE IMPACT OF THE ELASTIC NODES ON  
THE STABILITY OF STEEL DOMES

**4. Firsov P., postgraduate (KNUUE of O. Beketov)**  
STRENGTH AND DEFORMATION OF ACRYLIC MODIFIED GLUES

**5. Rudenko I., Ph.D., senior researcher (KNUCA, SRIBM); Omelchuk V.,  
postgraduate (KNUCA); Posivnych V., student (KNUCA); Dovbnia I., student  
(KNUCA)**  
MODIFICATION BY CHEMICAL ADMIXTURES OF DRY-MIX  
MORTARS BASED ON ALKALINE CEMENT

**6. Levadna S., senior lecturer (LNAU)**  
ABOUT THE METHOD OF THE CONCRETE LEACHING DURING  
FILTERING INVESTIGATION PROCESSES

**7. Klimenko E., Doctor of Science, professor (OSACEA); Chernieva O.,  
Ph.D., associate professor (OSACEA); Hrynova I., postgraduate (OSACEA)**  
RESEARCH ISSUES STRESS-STRAIN STATE AND THE RESIDUAL  
LOAD-BEARING CAPACITY OF DAMAGED STONE PILLARS

**8. Semchuk I., student (KNUCA)**  
THE ANALYSIS OF THE MODES OF BUCKLING OF CROSS-  
CORRUGATED WALLS IN THE I-BEAMS UNDER CONCENTRATED LOAD  
ACTION



9. Gots V., Doctor of Science, professor (KNUCA); Lastivka O., Ph.D., associate professor (KNUCA); Rudenko I., Ph.D., senior research officer (KNUCA)

IMPACT OF REPLACING OPC CLINKER TO PORTLAND CEMENT IN ALKALI-ACTIVATED CEMENT

10. Zolotova N., Ph.D. (KNUUE of O. Beketov); Skliarov V., Ph.D. (KNUUE of O. Beketov); Suprun O., director (PE «UKRINDUSTRYBUILDING»)

ARRANGEMENTS FOR INSTALLING THE ANCHOR BOLTS ON ACRYLIC COMPOSITIONS

11. Levkovsky D., Ph.D., assistant (KNUCA); Jansons M., ssistant (KNUCA)

RESEARCH OF ACCURACY PROJECTION BUBNOV-GALERKIN-PETROV METHOD

12. Hovdun I., postgraduate (KNUCA)

THE SULPHATE RESISTANCE OF THE SECOND TYPE OF PORTLAND CEMENTWITH USING THE MINERAL SUPPLEMENTS

13. Romantsova K., postgraduate (KNUCA)

DEFINITION OF A RESOURCE OF THE STRUCTURAL ELEMENTS UNDER CREEP AND FATIGUE

14. Volynska E., postgraduate (KNUCA)

ROAD CONCRETE BASED ON SLAG-ALKALINE CEMENT WITH THE USE OF WASTE FLOTATION GOLD ORE

15. Pidlutskyi V., Ph.D., associate professor (KNUCA); Fuchenko A., student (KNUCA)

IMPACT OF SOIL ENVIRONMENT DEFORMATION MODEL ON CALCULATION OF HIGH-RISE BUILDINGS' FOUNDATIONS

16. Pidlutskyi V., Ph.D., assosiate professor (KNUCA); Baklazhka O., student (KNUCA)

FEATURES RATIONAL CHOICE FOUNDATIONS FOR HIGH-RISE BUILDINGS

17. Lytvyn A. scientific researcher, postgraduate (KNUCA); Sakharov V., Doctor of Science, professor (KNUCA); Pidlutskyi V., Ph.D., associate professor (KNUCA)

STRESS-STRAIN STATE OF TALL BUILDINGS FOUNDATION STRUCTURES WHILE SEISMIC LOAD

**18. Ruchkivsky V., postgraduate (KNUCA)**

**THE INFLUENCE OF PARAMETERS OF THE RETAINING WALL ON ITS STRESS-STRAIN STATE IN DENSELY BUILT-UP TERRITORY**

**19. Boyko I., Doctor of Science, professor (KNUCA); Nosenko V., Ph.D., associate professor (KNUCA); Krivenko O., postgraduate (KNUCA)**

**THE ANALYSIS OPTIONS PLACEMENT OF CONTINUOUS FLIGHT AUGER PILES IN CLAY SOILS**

**20. Melnyk A., student (KNUCA); Mychailovskiy D., Ph.D., associate professor (KNUCA)**

**GENETICALLY MODIFIED TIMBER FOR CONSTRUCTION**

**21. Mykhailovsky D., Ph.D., associate professor (KNUCA); Matyuschenko D., lead engineer (TOV «NPK «UKRBUDPROJECT»); Smolensky A., engineer (TOV «NPK «UKRBUDPROJECT»)**

**INFLUENCE OF UNEVEN SETTLEMENTS OF THE CURVED GLULAM FRAMES' BEARINGS ON THE CORNISE NODE'S STRESS**

**22. Zakharchenko P., Ph.D., profesor (KNUCA); Gavrishk A., Phil. Sci. profesor (KNUCA); Ivashchenko Yu., postgraduate (KNUCA)**

**APPROACHES TO THE DEFINITION OF COMMODITY VALUES GYPS UEMPLASTER**

**23. Prudatko E., student (VSP KInK KNUCA); Mikhaschuk L., teacher (VSP KInK KNUCA)**

**THE USE OF POLYMINERAL CLAY CLINKER RAW MATERIAL FOR PRODUCTION OF CERAMIC PRODUCTS**

## SECTION 4.

### *Engineering systems, automated systems and environmental aspects of construction*

17<sup>th</sup> of November, 2016, aud.150

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**1. Chupakova Katya-Hanna, student (KNUCA); Marchenko I., postgraduate (KNUCA); Kotovenko O., Ph.D., associate professor (KNUCA)**  
PLACE IRON ORE INDUSTRY IN THE OVERALL TECHNOGENESIS UKRAINE

**2. Kropyvka Ya., student (KNUCA); Miroschnychenko O., senior lecture (KNUCA)**  
ANALYSIS OF SOLID HOUSEHOLD WASTE LANDFILL NO. 5 IMPACT ON THE ENVIRONMENT

**3. Orel V., Ph.D., associate professor (National University «Lviv Polytechnic»); Semkiv I., student (National University «Lviv Polytechnic»)**  
GEAR PUMP DISPENSER HYDRODYNAMICAL ACTIVE POLYMERS

**4. Sych M., postgraduate (NUFT); Kyshenko V., Ph.D., professor (NUFT)**  
SYNTHESIS OF SYSTEMS OF THE SYNERGISTIC CONTROL OF MATERIAL FLOWS IN SUGAR PRODUCTION

**5. Radionov V., student (SHEI «Kryvyi Rih National University»); Morkun V., Ph.D., associate professor (SHEI «Kryvyi Rih National University»)**  
THE ADAPTIVE CONTROL SYSTEM FOR THE IDENTIFICATION HYDROCYCLONE TYPE

**6. Fesik L., Ph.D., associate professor (OSACEA); Sorokina N., Ph.D., associate professor (OSACEA)**  
COMPACT INSTALLATIONS OF SEMISUBMERGED DISK BIOFILTERS FOR DEEP TREATMENT OF DOMESTIC SEWAGE

**7. Matsiyevska O., Ph.D., associate professor (National University «Lviv Polytechnic»); Harasymchuk B., student (National University «Lviv Polytechnic»)**  
THE QUALITY OF TOWN WATER IN THE CITY OF LVIV

**8. Pankov D., postgraduate (NUFT); Kyshenko V., professor (NUFT)**  
DYNAMIC PEER EVALUATION SYSTEM OF QUALITY BAKERY PRODUCTS

**9. Kronh Ye., postgraduate (NUFT); Vaselenko L., Ph.D., associate professor (NUFT)**  
THE IMPACT OF THE UNCERTAINTY AND SUBJECTIVITY OF EXPERTS ASSESSMENTS OF THE QUALITY OF DECISION MAKING

**10. Gnativ I., student (NU»Lviv Polytechnic»); Gnativ R., Doctor of Science, associate professor ("NU»Lviv Polytechnic»)**  
INFLUENCE OF QUARRYING IN THE RIVERBED STRYI AT WATER INTAKE FACILITIES OF WATER SUPPLY SYSTEMS

**11. Markov M. (KNUCA); Samoylenko M. (KNUCA);**  
COMPARISON OF CLASSICAL AND STANDARDIZED PROGRAMMING LANGUAGES FOR AVR CONTROLLERS

**12. Prokopenko B., student (KNUCA); Kopanitsia Yu., Ph.D., associate professor (KNUCA);**  
ANALYTIC CALCULATION OF HYDROSTATIC PRESSURE ON A FLAT SURFACE USING OF THREE COMMANDS METHOD K123

**13. Kotova L., student (KNUCA); Azizov L., student (KNUCA); Kopanitsia Yu., Ph.D., associate professor (KNUCA)**  
ACCURACY EVALUATION OF NUMERIC CALCULATION OF HYDROSTATIC PRESSURE ON A FLAT SURFACE USING METHOD K123

**14. Lysokon A., student (KNUCA); Sergeychuk O., Doctor of Sciences, professor (KNUCA)**  
DESIGN ENERGY EFFICIENT MULTI-STOREY HOUSES USING BIM-TECHNOLOGIES IN UKRAINE

**15. Cherniuk V., Doctor of Science, professor (LPNU); Ivaniv V., postgraduate (LPNU); Podibka N., student (LPNU);**  
INFLUENCE OF THE VALUE OF JET JOINING ANGLE ON NON-UNIFORMITY OF WATER INFLOW INTO PRESSURE COLLECTOR-PIPELINE ALONG THE PATH

**16. Nekrashevych A., student (KNUCA); Tischuk M., student (KNUCA); Wolters A., assistant (KNUCA); Sobolevska L., assistant (KNUCA)**  
AUTOMATED SYSTEM OF CONTROL AND ACCOUNTING OF GAS FLOW

**17. Cherniuk V., Dctor of Sciences, professor (LPNU); Pitsyshyn B., senior lecturer (LPNU); Mykhailiuk V., student (LPNU)**

**FLOW OF AQUEOUS SOLUTIONS OF METAL IONS BETWEEN ECCENTRIC CYLINDERS**

**18. Kondrushenko Yu., student (KNUCA); Kotovenko O., Ph.D., associate professor (KNUCA); Miroshnychenko O., senior lecture (KNUCA)**

**ENVIRONMENTAL ISSUES THE ACTIVITIES OF THE MUNICIPAL ENTERPRISE «VODOKANAL» IN SHOSTKA**

**19. Kulynych Ya., postgraduate (KNUCA)**

**ENVIRONMENTAL ASSESSMENT OF THE IRPIN RIVER**

**20. Lysak O. (IRE, NAS of Ukraine)**

**IMPACT OF THE DIMENSIONS AND THE LOCATION OF ELECTRICAL HEATING ELEMENTS ON THE HEAT OUTPUT OF STATIC AND DYNAMIC STORAGE HEATERS**

**21 Yaras M., student (KNUCA); Samoylenko M., assistant (KNUCA); Sobolevska L., assistant (KNUCA)**

**DEVELOPMENT OF A UNIVERSAL MODBUS DEVICE BASED ON AVR CONTROLLER**

**22. Perebynos A., postgraduate (KNUCA); Kryvomaz T., Ph.D., associate professor (KNUCA)**

**GRADING SYSTEM OF FUNGI-DESTRUCTORS OF WOODEN BUILDING MATERIALS AND STRUCTURES FOR HARMFULNESS**

**23. Podoba M., student (KNUCA); Vavrischuk D., student (KNUCA); Sobolevska T., associate professor (KNUCA)**

**AUTOMATION JCC USING STANDARD OF KNX**

**24. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M. Ph.D., assistant (KNUCA); Brik A., student (KNUCA)**

**STATE OF THE PROBLEM AND OBJECTIVES OF RESEARCH COAXIAL LINEAR MOTORS WITH PERMANENT MAGNETS TO DRIVE CONSTRUCTION MACHINERY**

**SECTION 5.**  
***Construction vehicles and equipment***  
17<sup>th</sup> of November, 2016, aud. 207

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**1. Mischuk D., Ph.D., associate professor (KNUCA)**

SIMULATION OF ROTARY EXTRUDER FOR «PRINT» A CEMENT MORTAR AS THE BASIS FOR CREATION OF BUILDING 3D PRINTER

**2. Boguslavsky V., Ph.D., associate professor (KNUCA); Bytlyan R., student (KNUCA)**

SOME ASPECTS OF CREATION OF MANIPULATOR FOR THE INSTALLATION OF PAVING SLABS

**3. Zbitniev P., postgraduate (EUNU); Nyezhentsev O., Ph.D., associate professor (NTUU «Igor Sikorsky KPI»)**

ANALYSIS OF THE DEPENDENCE BETWEEN LOADS OF AN OVERHEAD CRANE AND THE PARAMETERS OF A FREQUENT CONTROL

**4. Tanich H., student (NTUU «Igor Sikorsky KPI»); Nyezhentsev O., Ph.D., associate professor (NTUU «Igor Sikorsky KPI»)**

THE INFLUENCE OF SPEED MOVEMENT OVERHEAD CRANE ON THE DYNAMIC LOADS AND ENERGY LOSSES

**5. Mishchuk E., Ph.D, assistant (KNUCA)**

RESEARCH WORKING PROCESS VIBRATING JAW CRUSHER IN A VIEW OF ELASTIC-VISCOUS-PLASTIC ENVIRONMENT

**6. Tereshchenko K., student (NTUU «Igor Sikorsky KPI»); Nyezhentsev O., Ph.D, associate professor (NTUU «Igor Sikorsky KPI»)**

ANALYSIS OF THE DYNAMIC LOADS WHEN LOWERING THE CARGOES BY USING OVERHEAD CRANE

**7. Tkachuk L., postgraduate (NULEU); Loveykin V., Doctor of Science, professor (NULEU)**

THE DYNAMIC ANALYSIS OF THE BUCKET ELEVATOR MOVEMENT

## SECTION 6.

### *Organization, economics and management in construction*

17<sup>th</sup> of November, 2016, aud. 606

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**1. Klimchuk M., Ph.D., associate professor (KNUCA)**

METHODOLOGY OF MANAGEMENT OF ENERGYSAVING ON ENTERPRISES ON THE BASIS ENVIRONMENTAL ECONOMICS

**2. Klimchuk S., postgraduate (NTUU «Igor Sikorsky KPI»)**

FORMATION OF FUNCTIONAL STRATEGIES ALTERNATIVE ENERGY COMPANIES

**3. Altukhova D., postgraduate (KNUCA)**

THE IMPROVEMENT OF CONSTRUCTION PLANNING EFFICIENCY BY USING THE THEORY OF RESTRICTION

**4. Malets N., assistant (KNUCA)**

EFFECTIVE USE OF SCAFFOLDINGS

**5. Zakorko P., Ph.D., professor (KNUCA); Breus V., postgraduate (KNUCA)**

EXPEDIENCY OF HOUSING RECONSTRUCTION

**6. Shehda M., postgraduate (KNUCA)**

COMPARATIVE EVALUATION OF ENTERPRISES OF PAINTING MATERIALS BY A POSITION OF SOCIAL RESPONSIBILITY

**7. Sapiuha P., postgraduate (KNUCA)**

THEORETICAL APPROACHES TO THE DEFINITION OF COMPETITIVENESS

**8. Shebek M., Ph.D., professor (KNUCA); Dubynka O., graduate student (KNUCA)**

ORGANIZATIONAL AND TECHNOLOGICAL MODELING OF CONSTRUCTION PROJECT

**9. Moholivets A., postgraduate (KNUCA)**

COUNTER-CYCLICAL REGULATION OF THE CONSTRUCTION COMPANIESACTIVITIES



**SECTION 7.**  
***Information Technology***  
17<sup>th</sup> of November, 2016, aud. 368

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting  
16:00 – Expository program, continuation of sectional meetings

**1. Honcharenko T., senior lecturer (KNUCA)**

INFORMATION TECHNOLOGIES 4D MODELLING IN LANDSCAPE DESIGN

**2. Tsiutsiura M., Ph.D., associate professor (KNUCA); Reznik R., postgraduate (KNUCA)**

USING INTERNET TECHNOLOGIES TO AID STUDENTS STUDYING

**3. Tsiutsiura S., Doctor of Science, professor (KNUCA); Golenkov V., assistant (KNUCA)**

MATHEMATICAL MODELING OF THE ONE-SECTION ELASTIC LINK MANIPULATOR' DYNAMICS

**4. Kryvoruchko O., Doctor of Science, associate professor (KNTEU); Desiatko A., postgraduate (KNTEU), chairman of the cyclic commission information systems and technologies (TEK KNTEU)**

METHODS OF INFLUENCE ON IT DEPARTMENT' SPRODUCTIVITY

**5. Minaeva J., Ph.D., associate professor (KNUCA); Filimonov G., postgraduate (KNUCA)**

HYBRID MODELS OF DECISION MAKING

**6. Fedusenko F., Ph.D., associate professor (KNUCA); Ostapenko A., graduate student (KNUCA)**

MODELS AND METHODS OF ADAPTIVE ONLINE LEARNING

**7. Romanov O., postgraduate (KNUCA)**

THE MAIN TASKS OF THE AUTOMATED INFORMATION SYSTEM OF THE ENERGY AUDIT OF BUILDINGS

**8. Kuchansky A., Ph.D., associate professor (KNUCA); Chyzmotrya O., postgraduate (KNUCA)**

MULTIPLE TRANSPORT TASK WITH TWO CRITERIA

**9. Shabala Ye., associate professor (KNUCA); Vasilieva K., student (KNUCA); Goncharova E., student (KNUCA)**

**IP- IDEOCAMERA**

**10. Fedusenko E., Ph.D., associate professor (KNUCA); Kovalenko B., student (KNUCA)**

**DEVELOPMENT OF THE INFORMATION SYSTEM OF PSYCHOLOGICAL TESTING**

**11. Biloshchytskyi A., Doctor of Science, professor (T. Shevchenko NU of Kyiv); Kuchansky A., Ph.D., associate professor (KNUCA); Dubnytska A., senior assistant (KNUCA); Pyda S., first class technician (KNUCA)**

**CONCEPTUAL BASES IN GAMEHUB INFRASTRUCTURE DEVELOPMENT IN KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE**

**12. Lizunov P., Doctor of Science, professor (KNUCA); Biloshchytskyi A., Doctor of Science, professor (T. Shevchenko NU of Kyiv); Kuchansky A., Ph.D., associate professor (KNUCA); Dubnytska A., senior assistant (KNUCA)**

**METHODS OF ANALYSIS OF THE IMAGE, MATHEMATICAL FORMULAS AND TABLES FOR FINDING INCOMPLETE DUPLICATES**

## SECTION 8.

### *Historical, socio-cultural, political, legal and philosophical aspects of architecture and construction development*

17<sup>th</sup> of November, 2016, aud. 302

- 10:00 – Sectional meeting
- 13:00 – Lunch
- 14:00 – Continuation of sectional meeting
- 16:00 – Expositional program, continuation of sectional meetings

**9. Dyomkin P., Ph.D., associate professor (KNUCA); Poltavets M., student (KNUCA)**

OTAMAN ZELENYI IN THE ATTEMPT OF A NEW VISION

**10. Goncharenko I., Ph.D., associate professor (KNUCA); Zabrodska P., student (KNUCA)**

THE BELL TOWER OF ST. SOPHIA CATHEDRAL – A STRIKING EXAMPLE OF UKRAINIAN ARCHITECTURE OF XVIII CENTURY

**1. Derevinskiy V., Doctor of Science, professor (KNUCA); Yunasheva M., student (KNUCA); Malyarchuk O., student (KNUCA)**

VALUE OF HISTORY OF UKRAINIAN CULTURE

**2. Halius I., student (KNUCA); Panibudlaska A., Ph.D., associate professor (KNUCA)**

PUBLIC POLICY OF CONSTRUCTION IN INDEPENDENT UKRAINE

**3. Danylenko S, student (KNUCA); Dyomkin P., Ph.D., associate professor (KNUCA)**

THE ROLE OF THE UKRAINIAN DIASPORA IN PRESERVATION AND DEVELOPMENT OF UKRAINIAN CULTURE

**4. Grokhovska O. (KNUCA); Dyomkin P. Dyomkin P., Ph.D., associate professor (KNUCA)**

UKRAINIAN ROMANTICISM OF THE 19TH CENTURY

**5. Savoyska S., Doctor of Science, professor (AIDP), Ph.D., assistant professor (KNUCA); Ageeva A., student (KNUCA); Kardanets V., student (KNUCA); Stadnyck I., student (KNUCA)**

POLITICAL CONTEXT OF SOCIAL COMMUNICATIONS IN POLITICAL DEVELOPMENT OF UKRAINIAN SOCIETY

**6. Derevinskiy V., Doctor of Historical Sciences, professor (KNUCA); Kishenya V., student (KNUCA)**

COMPARATIVE CHARACTERISTIC OF RUSSIAN AND UKRAINIAN WARS IN 17-TH AND 21-ST CENTURIES

**7. Mantach D., student (KNUCA); Djomkin P., associate professor (KNUCA)**

UKRAINIAN DEFENSE ARCHITECTURE OF THE XVI - XVII CENTURY

**8. Goncharenko I., Ph.D, senior lecturer (KNUCA); Ryzhenko A., student (KNUCA)**

HISTORICAL PERSPECTIVE ON RESTORATION OF DESTROYED ARCHITECTURAL MONUMENTS

**9. Mizina M., student (KNUCA); Panibydaska A., Ph.D., associate professor (KNUCA)**

STATE REGULATION IN THE SPHERE OF CONSTRUCTION AND ARCHITECTURE

**10. Derevinskiy V., Doctor of Science, professor (KNUCA); Kharchenko A., student (KNUCA)**

THE IMPLEMENTATION OF THE PRINCIPLE OF NATIONAL INTEREST BY THE EXAMPLE OF THE ARMED CONFLICT IN UKRAINE

**11. Derevinskiy V., Doctor of Science, professor (KNUCA); Fedchenko M., student (KNUCA)**

A COMPARATIVE ANALYSIS OF THE OANGE REVOLUTION AND THE REVOLUTION OF DIGNITY

**12. Schasliva V., student (KNUCA); PeregudaY., Doctor of Science, professor (KNUCA)**

SEXUAL RELATIONS AS A FACTOR OF SOCIAL RELATIONS AND SELF-FULFILLMENT OF PERSONALITY

**13. Derevinskiy V., Doctor of Science, professor (KNUCA); Lavrynovych C., student (KNUCA); Kereksha Z., student (KNUCA)**

DEPENDENCE OF ARCHITECTURE FROM CHANGES IN SOCIAL AND POLITICAL LIFE OF THE COUNTRY

**14. Derevinskiy V., Doctor of Science, professor (KNUCA); Usychenko S., student (KNUCA)**

THE ETYMOLOGY OF THE WORD «UKRAINE»

## SECTION 1.

### *Architecture and Design*

18<sup>th</sup> of November, 2016, aud. 101 (Faculty of Architecture)

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Sulimenko S., graduate student (KNUCA)**

CONSTRUCTION OF ROTATION SURFACE INCIDENT TO THE SECOND-ORDER CONE CUT

**2. Kashchenko T., Ph.D., associate professor (KNUCA); Redkina Ye.; Barabash Ye. (KNUCA)**

AUTONOMOUS SMALL ARCHITECTURAL FORMS

**3. Tsuman K., postgraduate (KNUCA)**

MODULARITY IN ADAPTIVE ARCHITECTURE

**4. Los S., postgraduate (KNUCA)**

FORMATION OF THE DISCRETE SERIES OF COMPOUND CURVES POINTS UNDER THE INFLUENCE OF NORMAL LOAD

**5. Sobolevska D., postgraduate (KNUCA)**

FEATURES OF DESIGNING BY RECREATION OF SPACE IN LONG TERM CARE FACILITIES FOR THE ELDERLY

**6. Ruban O., student (KNUCA); Bonchuk V., student (KNUCA)**

THE FACADE GREENING AS A METHOD OF ECOLOGIZATION OF HOUSING

**7. Maliy O., postgraduate (KNUCA)**

DEVELOPMENT OF ARCHITECTURAL TYPOLOGY OF CHILDREN'S INSTITUTIONS OF REHABILITATION AND RECREATION

**8. Polosych D., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**

MODERN TENDENCIES OF VERTICAL PLANTING OF GREENERY OF DWELLING-HOUSES IN THE LARGEST CITIES OF UKRAINE

**9. Dobrovolskaya O., postgraduate (KNUCA); Voyko N., Ph.D., (KNUCA)**

LANDSCAPE ARCHITECTURE OF PUBLIC PLACES

10. **Tretiak A., postgraduate (KNUCA)**  
ANALYSIS OF HISTORICAL DESIGN AND CONSTRUCTION OF  
UNDERGROUND PARKINGS

11. **Shuldan L., Ph.D., associate professor (NU «Lviv Polytechnic»); Al-Akhmmadi S., architect (PE «Alex-Project»)**  
USING OF LIGHT WEIGHT AND TEMPORARY ENERGY SUPPLY  
CONSTRUCTIONS OF SOLAR ELEMENTS FOR CHERNIVTSI HISTORICAL  
BUILDING'S ENERGY MODERNIZATION

12. **Oleksii S., assistant (KNUCA)**  
PECULIARITIES OF SCIENTIFIC CENTERS OF ALTERNATIVE  
ENERGY SOURCES

13. **Hormah H., assistant (OSACEA)**  
THE FORMATION OF PUBLIC SPACES ON THE BASIS OF  
ARCHITECTURAL ADAPTATION OF PORT HERITAGE

14. **Kyselyova A. assistant (OSACEA)**  
ACTUALITY OF ACTIVATION OF HISTORICAL  
ENVIRONMENT BASED ON THE INCLUSION OF OBJECTS OF  
CONTEMPORARY ART

15. **Romanova Iu., postgraduate (KNUCA)**  
NODE BALANCE OF TWO-DIMENSIONAL DISCRETE STRUCTURE IN  
TREE-DIMENSIONAL SPACE

16. **Zapisochna M., student (KNUCA); Bondarenko O., Ph.D., associate professor (KNUCA)**  
LIVE FACADES OF CONCRETE

17. **Kopasova G., postgraduate (KNUCA)**  
LIGHTING IN ARCHITECTURE

18. **Heher A., postgraduate (NAU)**  
COMPLEX CONCEPTUAL MODEL OF VRS IN THE OBJECTS OF  
DESIGN

19. **Honta V., postgraduate (KNUCA)**  
ANALYSIS OF SPATIAL PERCEPTION INFORMATIZATION

20. **Skochko V., Ph.D., associate professor, doctoral candidate (KNUCA)**  
THE WAYS OF DISCRETE REPRESENTATION OF PLANAR CURVES  
DEFINED BY IMPLICIT FUNCTIONS

**SECTION 2.**  
*Urban planning and land use planning*  
18<sup>th</sup> of November, 2016, aud. 323

10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Osetrin M., Ph.D., professor (KNUCA); Bepalov D., assistant (KNUCA); Dorosh M., postgraduate (KNUCA)**  
RESEARCH METHODS OF THE CITY POPULATION MOBILITY

**2. Mitiagin A., postgraduate; Mamedov Ali, Ph.D.**  
SMART CITY

**3. Sydoruk R., student (KNUCA)**  
ENVIRONMENTAL PROBLEMS OF URBAN ENVIRONMENT  
FORMATION

**4. Borysevych M., student (KNUCA); Zinovieva O., Ph.D., associate professor (KNUCA)**  
ARCHITECTURAL AND PLANNING ORGANIZATION OF BARRIER-FREE URBAN ENVIRONMENT

**5. Krasnoslobodtseva O., postgraduate (KNUCA)**  
THE EUROPEAN EXPERIENCE OF INFORMATION SUPPORT OF RECREATIONAL AREAS DESIGN AND DEVELOPMENT

**6. Kozlov V., postgraduate (KNUCA); Bepalov D., teacher (KNUCA); Osetrin N., Ph.D., professor (KNUCA)**  
PRECONDITIONS IN IMPLEMENTATION OF INTELLIGENT TRANSPORT SYSTEMS IN THE CITIES OF UKRAINE

**7. Osetrin M., Ph.D., professor (KNUCA); Dvorko O., postgraduate (KNUCA)**  
PRINCIPLES AND METHODS OF FUNCTIONAL DESIGN SOLUTIONS SIMPLE (UNREGULATED) INTERSECTIONS ON THE ROAD-STREET NETWORK OF THE CITY (EXAMPLE OF KYIV)

**8. Marharian T., postgraduate (KNUCA)**  
COMPARATIVE DATA OF MODERN TRAMS AND OTHER FORMS OF PUBLIC TRANSPORT BY SOCIAL AND-ECONOMIC INDICATORS OF THE SOCIETY



**9. Khodos V., Doctor of Architecture, professor (KNUCA)**  
USAGE OF INNOVATIVE VEHICLES IN BIGGEST CITIES

**10. Yurkovets O., postgraduate (KNUCA); Pryimachenko O., Ph.D., associate professor (KNUCA)**  
FACTORS OF INFLUENCE OF DESTRUCTION OF COASTAL ZONE

**11. Boyko V., postgraduate (KNUCA)**  
ANALYSIS OF APPROACHES TO PREDICTION OF ACCIDENTS IN TRAFFIC

**12. Kolmakov I., postgraduate (KNUCA)**  
THE EXPERIENCE OF FORMATION THE MULTIFUNCTIONAL PUBLIC SPACE IN THE CITIES OF UKRAINE

**13. Verhodub M., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**  
METHODS OF IMPROVEMENT THE URBAN ENVIRONMENT WITH THE NEEDS OF THE VISUALLY IMPAIRED

**14. Shebek N., Doctor of Architecture, professor (KNUCA); Lomachevska V., student (KNUCA)**  
PRINCIPLES OF RENOVATION INDUSTRIAL AREAS AS A WAY TO HARMONIZE URBAN ENVIROMENT

**15. Shebek N., Doctor of Architecture, professor (KNUCA); Matsokha A., student (KNUCA)**  
NEW APPROACHES FOR RECONSTRUCTION OF CENTRAL AREAS IN THE TOWNS OF UKRAINE (ON THE EXAMPLE OF KHMELNITSKY DOWNTOWN)

**16. Karimova A., student (KNUCA)**  
THE SOCIAL PROBLEMS OF ARCHITECTURAL PLANNING ORGANIZATION IN THE SLEEPING QUARTER OF MAJOR CITIES

**17. Stashevskya N., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**  
TECHNIQUES OF ARCHITECTURAL AND PLANNING ORGANIZATION ON FREE-BARRIER ENVIRONMENT

**18. Yaremchuk O., postgraduate (KNUCA)**  
PARTICIPATIVE APPROACH TO URBAN DESIGN

**19. Topal S., postgraduate (KNUCA), senior lecturer (OSABA)**  
PRINCIPLES AND METHODS OF HUMANIZATION OF THE LIVING ENVIRONMENT IN THE LARGEST CITIES OF UKRAINE BY THE EXAMPLE OF ODESSA

**20. Novak O. (KNUCA)**  
THE RECONSTRUCTION METHODS OF THE HISTORIC ENVIRONMENT IN MODERN CITY

**21. Loktionov A., student (KNUCA)**  
LANDSCAPE-PLANNING ORGANIZATION STRIPS RAILWAYS IN RESIDENTIAL AREAS OF THE CITY

**22. Aivazian K., postgraduate (KNUCA)**  
ANALYSIS OF THE CURRENT STATUS OF THE FUNCTIONAL ZONING OF PLANNING AREAS (FOR EXAMPLE, DARNYTSKYI DISTRICT OF KYIV)

**23. Romanova O., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**  
SOCIAL HOUSING IN THE CONTEXT OF URBAN PLANNING

**24. Zhelepa S., student (KNUCA); Shebek N., Doctor of Architecture, professor (KNUCA)**  
CURRENT TRENDS OF ARCHITECTURAL-PLANNING ORGANIZATION PLACES OF RESIDENCE OF TEMPORARY MIGRANTS

**25. Chaukin A., postgraduate (KNUCA)**  
METHODS FOR REVITALIZING THE DEVELOPMENT OF THE COASTAL AREAS OF SMALL RIVERS IN THE CITIES OF UKRAINE

### SECTION 3.

#### *Construction, materials and design technology of building production*

18<sup>th</sup> of November, 2016, aud.102 (main building)

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Bondarenko O., Ph.D., (KNUCA); Gaidyuk V., student (KNUCA); Sofyianyuk A., student (KNUCA); Kazamatova L., student (VSP KInK KNUCA)**  
PROTECTIVE MATERIALS BASED ON GLASS CONTAINING SLAG  
PORTLAND CEMENT COMPOSITIONS

**2. Kovalchuk O., Ph.D., senior researcher, doctoral candidate (KNUCA); Pasko A., postgraduate (KNUCA); Boiko O., student, (KNUCA); Ivanuchko V., student, (KNUCA);**  
HYBRID ALKALI ACTIVATED CEMENTS ON RED MUD BASIS

**3. Bezsmertnyi M., Ph.D., professor (KNUCA); Chernikova S., Ph.D., s.n.s., teacher (Industrial College KNUCA); Kvasova S., teacher (Industrial College KNUCA); Koshovenko O., student (Industrial College KNUCA)**  
INVESTIGATION OF THE PROPERTIES OF FILLER SAND  
LIGHTWEIGHT CONCRETE BASED ON SLAGS FROM THE SMELTING OF  
MANGANESE FERROALLOYS

**4. Chubarev A., structural engineer («Ukrbudproekt»); Mychailovskiy D., Ph.D., associate professor (KNUCA)**  
EVOLUTION OF SUPPORTING BEAM UNITS IN THE MULTI-STORY  
FRAMES OF LAMINATED WOOD

**5. Boldyreva J., postgraduate (SNAU); Shushkevich V., Ph.D., associate professor (SNAU)**  
RESEARCH OF THE HOLLOW CORE LIFTING LOOPS

**6. Mykhailovsky D., Ph.D., associate professor (KNUCA); Babych T., postgraduate (KNUCA)**  
INFLUENCE OF UNEVEN SETTLEMENTS OF SUPPORT ON THE  
STRESS-STRAIN STATE OF DOUBLE-HINGED ARCHES

**7. Melnichenko L., student (VSP KInK KNUCA); Chernikova S., teacher (VSP KInK KNUCA); Kvasova S., teacher (VSP KInK KNUCA); Bezsmertny M., professor (KNUCA)**  
THE RESEARCH OF MECHANIC AND DISTORTED QUALITIES OF  
CONCRETES ON THE BASIS OF FILLERS THAT ARE MADE OF SLAG  
MELTING OF SILICON ELECTRO THERMAL SMELTING

**8. Kyrychok V., Ph.D., student, junior researcher (SRIBM, KNUCA)**  
FEATURES OF TECHNOLOGY APPLICATION OF ALKALINE  
ALUMINOSILICATE PROTECTIVE COATINGS FOR CONCRETE

**9. Pikul A. (Lira SAPR Ltd)**  
PROBLEMS OF MODELLING OF FLOOR RESPONSE SPECTRUM FOR  
SEISMIC ANALYSIS

**10. Nosenko V., Ph.D., associate professor (KNUCA); Gavryliuk O.,  
postgraduate (KNUCA)**  
RESEARCH OF INTERACTION DRILLING PILES OF SANDY BASES

**11. Kornienko M., Ph.D., professor (KNUCA); Zadorozhna T.,  
postgraduate (KNUCA)**  
THE ABILITY TO USE SLAG-MEADOW BINDERS TO CONSOLIDATE  
WEAK GROUNDS BY SOILCEMENT ELEMENTS

**12. Kornienko M., Ph.D., professor (KNUCA); Golenkov G., Ph.D.,  
associate professor (KNUCA); Kovalchuk A., postgraduate (KNUCA)**  
THE POSSIBILITY OF A REGULATED APPROACH TO VIBRATION  
COMPACTION

**13. Kornienko M., Ph.D., professor (KNUCA); Shepetiuk G., postgraduate  
(KNUCA)**  
PLACING ADDITIONAL UNDERGROUND PREMISES BY INCREASING  
THE BACEMENT WALLS AT RECONSTRUCTION OF HISTORICAL AND  
ARCHITECTURAL OBJECTS

**14. Rudnieva I., Ph.D., associate professor (KNUCA)**  
INFLUENCE OF TEMPERATURE EFFECTS ON THE STRESS-STRAIN  
STATE OF SUSPENSION SYSTEM FORMED BY THE SYSTEMS OF THE  
BENDING-RIGID THREADS

**16. Skochko L., assistant (KNUCA)**  
DETERRENCE OF SLOPES BY MULTILEVEL RETAINING WALLS

## SECTION 4.

### *Engineering systems, automated systems and environmental aspects of construction*

18<sup>th</sup> of November, 2016, aud. 150

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expositional program

**1. Zhuk V., Ph.D., associate professor (LPNU); Mysak I., postgraduate (LPNU)**

STORMWATER MODELING FOR THE TERRITORY OF MYKOLAYCHUK'S STR. DISTRICT IN LVIV

**2. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M., Ph.D., assistant (KNUCA); Burdin V., student (KNUCA)**

COMPUTER SIMULATION AND EXPERIMENTAL INVESTIGATION OF DISTRIBUTION ON THE SURFACE MAGNETIC INDUCTION RUNNERS

**3. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M., Ph.D., assistant (KNUCA); Martyniuk N., student (KNUCA)**

COMPUTER SIMULATION AND EXPERIMENTAL INVESTIGATION DIVISION MAGNETIC INDUCTION IN A NON-MAGNETIC GAP KLD-PM WITHOUT STATOR WINDINGS

**4. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M., Ph.D., assistant (KNUCA); Shybetsky V., student (KNUCA)**

COMPUTER SIMULATION AND EXPERIMENTAL INVESTIGATION DIVISION MAGNETIC INDUCTION IN THE AIR GAP KLD-PM NO CURRENT

**5. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M., Ph.D., assistant (KNUCA); Kravchenko A., student (KNUCA)**

COMPUTER SIMULATION AND EXPERIMENTAL INVESTIGATION DIVISION MAGNETIC INDUCTION IN THE AIR GAP WITH A CURRENT IN THE STATOR WINDING

**6. Golinkov G., Ph.D., associate professor (KNUCA); Abbasian M., Ph.D., assistant (KNUCA); Bogmolni. C., student (KNUCA)**

COMPUTER SIMULATION AND EXPERIMENTAL INVESTIGATION ELECTROMECHANICAL TRACTION AND PROGRESS-VOLTAGE CHARACTERISTICS

**7. Abbasian. M., Ph.D., assistant (KNUCA);**  
MATHEMATICAL MODELING AND EXPERIMENTAL STUDIES  
FREQUENCY RESPONSE

**8. Vovk L., Ph.D. (NULP); Popadiuk I., Ph.D. (NULP); Trofymchuk Y., student (NULP)**  
CALCULATION OF THE DETENTION VOLUME OF THE  
STORMWATER INLETS AND MANHOLES AT STORMWATER DRAINAGE  
SYSTEM

**9. Zhuk V., Ph.D. (LPNU); Matlai I., Ph.D. (LPNU); Fasulyak V., student (LPNU)**  
REGULATING EFFECT OF UPSTREAM SEWER SYSTEM ON THE  
STORMWATER HYDROGRAPHS

**10. Betsa V., student (KNUCA); Chepurna N., Ph.D., associate professor (KNUCA)**  
INCREASE OF EFFICIENCY OF USE OF ENERGY RESOURCES IN  
SYSTEMS OF ENSURING PARAMETERS OF THE MICROCLIMATE IN THE  
BUILDING

**11. Shuvaeva-Nechiporuk O., postgraduate (KNUCA)**  
MATHEMATICAL MODELING OPERATION OF PASSIVE SOLAR  
HEATING DEVICE

**12. Zadoyanny O., Ph.D., associate professor (KNUCA); Yevdokimenko Yu., postgraduate (KNUCA)**  
COMPARISON OF THE EFFICIENCY OF HVAC SYSTEM EXERGIC  
STORAGE ROOM ARBITRATION SAMPLES IN PHARMACEUTICAL  
INDUSTRY

**13. Biriukov D., postgraduate (NTUU «Igor Sikorsky KPI»); Deshko V., Ph.D., professor (NTUU «Igor Sikorsky KPI»)**  
ENERGY EFFICIENCY OF BUILDINGS AND LOCAL  
CHARACTERISTICS OF THE ROOM'S THERMAL STATE

**14. Kovtun A., student (KNUCA); Dicteruk M., Ph.D., associate professor (KNUCA)**  
THE INTRODUCTION OF AUTOMATION SYSTEMS IN THE PROCESS  
OF CONSTRUCTION WASTE RECYCLING

**15. Demianenko V., student (KNUCA); Dicteruk M., Ph.D., associate professor (KNUCA)**  
AUTOMATING THE PROCESS OF DRYING WOOD

## SECTION 5.

### *Construction vehicles and equipment*

18<sup>th</sup> of November, 2016, aud. 207

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Slobodchikov V., lecturer (MBC KNUCA); Balaka M., assistant (KNUCA)**

ROLL TOOTHED CRUSHER WITH THE FLEXIBLE CHAMBERS OF THE ROLLERS

**2. Loveikin V., Doctor of Sciences, professor (KNUCA); Pochka K., Ph.D, associate professor (KNUCA)**

OPTIMIZATION OF CONSTRUCTIONAL PARAMETERS OF THE DRIVING MECHANISM OF ROLLER FORMING INSTALLATION WITH THE BALANCED DRIVE

**3. Shalenko V., assistant (KNUCA)**

EXPERIMENTAL RESEARCH PROCESS OF VIBRATING FORMATION OF CONCRETE MIXES

**4. Svidersky A., professor (KNUBA); Mishchuk E., Ph.D., assistant (KNUCA); Rozwadowski D., student (KNUCA)**

EVALUATION AND ANALYSIS OF STRUCTURES VIBRATION CONE CRUSHER

**5. Mishchuk E., Ph.D., assistant (KNUCA); Lapin A., student (SSU «KIC» KNUCA)**

THEORETICAL RESEARCH OF DYNAMIC DESTRUCTION OF MATERIALS IN THE CRUSHING CHAMBER OF THE VIBRATING JAW CRUSHER

**6. Cuzmines M., Ph.D., associate professor (NTU); Pristaylo M., Ph.D., associate professor (KNUCA); Dubovenko Yu., Ph.D., associate professor (IGP)**

DESIGN RUNANY DESIGNS OF ENGINEERING STRUCTURES AND MACHINES

**7. Cuzmines M., Ph.D., associate professor (NTU); Pristaylo M., Ph.D., associate professor (KNUCA); Dolgih V., assistant (NTU); Chepel T., student (NTU)**

THE IMPACT OF GRUNTOWNY EQUIPMENT TO CHANGE STRESS-STRAIN STATE OF MAIN PIPELINES

## SECTION 6.

### *Organization, economics and management in construction*

18<sup>th</sup> of November, 2016, aud. 606

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Halunka O., postgraduate (KNUCA)**

FORMATION OF FINANCIAL AND ECONOMIC SECURITY OF CONSTRUCTION ENTERPRISES

**2. Iachmenova Iu., head of sector (NDIBV)**

HOW TO SOLVE PROBLEMS WITH FUNCTIONALWORNOUT REAL ESTATE

**3. Shevchuk O., graduate student (KNUCA)**

FUNCTIONAL COST ANALYSIS IN THE SYSTEM VALUE ENGINEERING

**4. Ryzhakova G., Doctor of Science, professor (KNUCA); Chupryna Y., Ph.D., associate professor (KNUCA); Cifra T., associate professor (KNUCA); Loktionova J., postgraduate (KNUCA)**

STRATEGIC MECHANISM INNOVATION OF CONSTRUCTION ENTERPRISES

**5. Kasyanov N. (KNUCA); Korinnyi V. (KNUCA)**

IMPROVEMENT OF METHODOLOGY EVALUATION OF INDUSTRIAL RISK DURING PRODUCTION EMERGENCY RECOVERY AND REPAIR WORKS

**6. Skrypnyk V., doctoral candidate (KNUCA)**

OPTIMIZING CONSUMER PROPERTIES OF DRY CONSTRUCTION MIXTURES FOR THE DEVICE PLASTER SCREED AT THE EXPENSE OF TECHNOLOGY ON MATERIALS FACTORS

**7. Kasyanov N. (KNUCA); Gunchenko O. (SUT)**

THE EVALUATION OF INDUSTRIAL RISK IN CONDUCTING RESCUE OPERATIONS (APP) AT CONSTRUCTION SITES

**8. Stetsenko S., Doctor of Science, professor (KNUCA); Gavrikov D., postgraduate (KNUCA); Melnichuk I., postgraduate (KNUCA); Borodavko N., student (KNUCA)**

SUBSTANTIATION OF ECONOMIC EFFICIENCY OF INVESTMENT PROJECTS



**9. Fesenko T., Ph.D., associate professor (LNAU); Ovcharenko O., Ph.D., associate professor (LNAU); Tretyakov S., postgraduate (LNAU)**

TECHNICAL AND ECONOMIC FOUNDATION OF ECOLOGICAL CONSTRUCTION AS A FACTOR OF EFFECTIVE IMPLEMENTATION OF STATE SOCIAL PROGRAMMES

**10. Kulyk M.**

DEPENDENCE OF GROWTH OF REGION AND STATE IN GENERAL FROM IMPLEMENTATION OF THE REALIZATION OF THE BUILDING ENTERPRISE

**11. Fesenko T., Ph.D., associate professor (LNAU); Levadna S., professor (LNAU); Pereverzeva V., student (LNAU); Aldakymov S., student (LNAU)**

VALUE-ORIENTED MANAGEMENT OF URBAN PROJECTS ON PRESERVATION OF THE HISTORICAL AND CULTURAL HERITAGE

**12. Yurchenko Yu., Ph.D., senior lecturer (KNUCA)**

STRATEGIC MANAGEMENT TOOLS FOR CONSTRUCTION ENTERPRISES

**13. Bielienkova O., Ph.D., associate professor (KNUCA); Tsyfra T., associate professor (KNUCA)**

THE IMPACT OF SEASONAL FLUCTUATIONS ON CIRCULATING ASSETS OF A CONSTRUCTION FIRM

**SECTION 7.**  
***Information Technology***  
18<sup>th</sup> of November, 2016, aud. 368

- 10:00 – Sectional meeting  
13:00 – Lunch  
14:00 – Continuation of sectional meeting. Expository program

**1. Miroshnychenko M., student (KNUCA); Shabala Ye., Ph.D., associate professor (KNUCA)**

INFORMATION WARFARE AND INFORMATION WEAPON AS A MEANS OF INFLUENCE ON NATIONAL SECURITY

**2. Chupryna C., Ph.D., associate professor (KNUCA); Chupryna Yu., Ph.D., associate professor (KNUCA)**

BACKGROUND OF THE DEVELOPMENT OF INFORMATION-ANALYTICAL SYSTEM BUILDING ENERGY MODELING

**3. Biloshchytskyi A., Doctor of Science, professor (T. Shevchenko NU of Kyiv); Humeniuk O., postgraduate (KNUCA)**

THE MAIN COMPONENTS OF DECISION SUPPORT INFORMATION TECHNOLOGY

**4. Zeltser R., professor. (KNUCA); Dubinin D., postgraduate (KNUCA)**  
INNOVATIVE CONSTRUCTION RESOURCE SUPPORT SYSTEM

**5. Lyaschenko T., senior lecturer (KNUCA); Kotsar Y., student (KNUCA); Tyshchenko O., student (KNUCA)**

THE DEVELOPMENT OF INFORMATION TECHNOLOGY

**6. Lyaschenko T., senior lecturer (KNUCA); Kushchenko O., student (KNUCA)**

COMPUTER GRAPHICS, IT'S TYPES AND APPLICATION

**7. Lyaschenko T., Senior Lecturer (KNUCA); Sereda I., student (KNUCA); Kozak Y., student (KNUCA); Savchenko K., student (KNUCA)**

COMPUTER GAMES – ALTERNATE REALITY

**8. Lyaschenko T., senior lecturer (KNUCA); Luhyna O., student (KNUCA); Moldavchuk V., student (KNUCA)**

FEATURES OF UNIX-LIKE OPERATING SYSTEMS

**9. Chmut O., student (KNUCA); Nelipa O., student (KNUCA); Shabala E., Ph.D., associate professor (KNUCA)**

**STANDARDS FOR EVALUATING SECURITY SYSTEMS**

**10. Artamonov V., student (KNUCA); Shabala Ye., Ph.D., associate professor (KNUCA)**

**PHISHING**

**11. Kyivska K., assistant (KNUCA); Lyaschenko T., senior lecturer (KNUCA)**

**THE USE OF BIM-TECHNOLOGY AT DIFFERENT STAGES  
CONSTRUCTION PROJECT LIFE CYCLE**

**12. Kotetunov D., student (CSTU); Tsiutsiura S., Ph.D., professor (KNUCA)**

**FEATURES OF PLANNING IN THE DEVELOPMENT OF IT PROJECT  
BY FLEXIBLE METHODOLOGIES**

**13. Kotetunov V., Ph.D., associate professor (KNUCA)**

**DIFFERENCES BETWEEN FLEXIBLE METHODOLOGIES SCRUM AND  
KANBAN**

**14. Didkovskiy N. student (KNUCA); Aznaurian I., associate professor (KNUCA)**

**USING MATHEMATICAL MODELS TO REPRODUCE PHYSICAL  
INTERACTIONS BETWEEN BODIES IN COMPLEX SYSTEMS**

## SECTION 8.

### *Historical, socio-cultural, political, legal and philosophical aspects of architecture and construction development*

18<sup>th</sup> of November, 2016, aud. 302

10:00 – Sectional meeting

13:00 – Lunch

14:00 – Continuation of sectional meeting. Expositional program

**1. Denysenko K., student (KNUCA); Gubert-Sidorova Y., assistant (KNUCA)**

GREEN ECONOMY AS A TREND OF THE MODERN GLOBAL POLICY

**2. Derevinskiy V., Doctor of Science, professor (KNUCA); Dovgopol O., student (KNUCA)**

THESES TO SUBJECT «HISTORICAL ROOTS OF THE UKRAINIAN PEOPLE. TRYPILLIAN CULTURE»

**3. Derevinskiy V., Doctor of Science, professor (KNUCA); Rekhliitskiy A., student (KNUCA)**

THE SCALE OF FAMINE 1932-1933 NEW DATA CAUSALITIES

**4. Derevinskiy V., Doctor of Science, professor (KNUCA); Belozorovich Ye., student (KNUCA)**

THE HISTORICAL SIGNIFICANCE OF INDEPENDENCE OF UKRAINE, AUGUST 24, 1991

**5. Synev Ye., student (KNUCA); Pereguda Ye., Doctor of Science, professor (KNUCA)**

MANIPULATION AS A MEANS FOR STUDENTS' SELF-IDENTIFICATION AND CONSOLIDATION IN EDUCATIONAL PROCESS

**6. Derevinskiy V., Doctor of Science, professor (KNUCA); Samagala M., student (KNUCA)**

UKRAINE AND THE EUROPEAN UNION. MODERN STAGE OF EUROPEAN INTEGRATION OF UKRAINE

**7. Derevinskiy V., Doctor of Science, professor (KNUCA); Lashchuk A., student (KNUCA)**

KAMYANA MOHYLA

**8. Goncharenko I., Ph.D., associate professor (KNUCA); Dyachok V., student (KNUCA); Gnatchenko I., student (KNUCA)**

CYRIL CHURCH IS A UNIQUE SACRED BUILDING

**9. Pogasiy O., student (KNUCA); Derevinskii V., Ph.D., associate professor (KNUCA)**

MODERN GEOPOLITICAL ENVIRONMENT OF UKRAINE AND ITS POSITION ON THE INTERNATIONAL STAGE

**10. Derevinskiy V., Ph.D., professor (KNUCA); Oliynyk S., student (KNUCA)**

MOTIVATION IN PROTEST ACTIVITY OF PARTICIPANTS IN MAIDAN REVOLUTION ON THE EAST OF UKRAINE

**11. Zuzko A., student (KNUCA)**

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**12. Derevinskiy V., Doctor of Science, professor (KNUCA); Dmytrenko K., student (KNUCA)**

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**13. Hubert-Sidorova J., assistant (KNUCA)**

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**14. Derevinskiy V., Doctor of Historical Sciences, professor (KNUCA); Alexeyeva M., student (KNUCA)**

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## **SECOND PLENARY MEETING**

18<sup>th</sup> of November, 2016, aud. 466

15:00 – Second plenary meeting. Conference resolution adoption and closing

**ROUND TABLE:** Modern organizational and technical problems in construction and architecture. Advanced constructional and technical engineering solutions. Results of the Conference.

**FOR NOTES**

# **«BUILD-MASTER-CLASS-2016»**

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of international scientific-practical conference  
of young scientists

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