

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
DNIPRO NATIONAL UNIVERSITY OF RAILWAY TRANSPORT
NAMED AFTER ACADEMICIAN V. LAZARIAN



PROGRAMME

**The Third International Scientific Multidisciplinary Conference of Students
and Beginner Scientists**

**«Modern Technologies: Improving the Present
and Impacting the Future»
(dedicated to the 90th anniversary of the University)**

November 27, 2019 (Dnipro, Ukraine)

Dnipro

2019

НАУКОВИЙ КОМІТЕТ КОНФЕРЕНЦІЇ:

Голова наукового комітету конференції:

Пішнінко О. М. – д.т.н., проф., академік ТАУ, ректор Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна.

Члени наукового комітету конференції:

Боднар Б. Є. – д.т.н., проф., перший проректор Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна;

Радкевич А. В. – д.т.н., проф., проректор із науково-педагогічної, економічної роботи перспективного та інноваційного розвитку Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна;

Торрес Агілар Мануель – д.юр.н., проф., завідувач кафедри розв'язання конфліктів Кордовського університету, Іспанія;

Гидемінас Вайчюнас – д.т.н., проф., Вільнюський технічний університет ім. Гедимінаса, Литовська Республіка;

Мезітіс Марек – д.т.н., проф., директор транспортного факультету Ризького технічного університету, Латвійська Республіка;

Ангель Юлія – к.філ.н., факультет комунікацій Екологічного університету Бухареста, Румунія;

Негрій В.Я. – д.т.н., проф., кафедри «Транспортні вузли» Білоруського державного університету транспорту м. Гомель, Республіка Білорусь;

Ма Ян – проф. Шанхайського педагогічного університету, Китайська Народна Республіка;

Гао Увенхуа – проф. Шанхайського педагогічного університету, Китайська Народна Республіка;

Олександр Сладковський – д.т.н., проф., кафедра логістики та транспортних технологій, факультет транспорту, Силезький технічний університет, Польща

Чернишенко В. С. – канд. фіз-мат.н., науковий співробітник Університету Кобленц-Ландау, Федеративна Республіка Німеччина;

Рибалка Р.В. – канд. екон.н., доцент, начальник науково-дослідної частини Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна;

Полішко Т. В. – канд. екон.н., доцент, декан економіко-гуманітарного факультету Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна;

Мунтян А.О. – канд. філол.н., доцент, завідувач кафедри іноземних мов Дніпровського національного університету залізничного транспорту імені академіка В. Лазаряна;

Кириченко І. Г. – д.т.н., проф., декан механічного факультету Харківського національного автомобільно-дорожнього університету;

Панченко О. І. – д.філол.н., проф., завідувач кафедри перекладу та лінгвістичної підготовки іноземців Дніпровського національного університету імені Олеса Гончара;

Саєнко Н. В. – д.пед.н., проф., завідувач кафедри іноземних мов Харківського національного автомобільно-дорожнього університету.

ОРГАНІЗАЦІЙНИЙ КОМІТЕТ КОНФЕРЕНЦІЇ:

Члени організаційного комітету:

Купцова Т. А. – канд. філос. н., доцент кафедри іноземних мов ДНУЗТ;

Колієва І. А. – канд. філос. н., доцент кафедри іноземних мов ДНУЗТ;

Мірошніченко І. Г. – ст. викладач кафедри іноземних мов ДНУЗТ;

Смирнова М. Л. – викладач кафедри іноземних мов ДНУЗТ;

Шовкун М. – студент 916 гр. ДНУЗТ;

Фальчиян К. – студент 916 гр. ДНУЗТ.

PROGRAMME

The Third International Scientific Multidisciplinary Conference of Students and Beginner Scientists

**«Modern Technologies: Improving the Present
and Impacting the Future»**

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9.00 – 10.00	Registration of the participants of the Conference
10.00 – 10.30	Opening Ceremony
10.30 – 12.30	Plenary Session
12.30 – 13.00	Break
13.00 – 15.00	Working Session
15.00 – 15.30	Conclusion Session

Time-limit for one presentation – 10 min

PROGRAMME:

Prof. O. M. Pshinko, Rector of Dnipro National University of Railway Transport named after Academician V. Lazarian

Prof. B. Ye. Bodnar, Pro-Rector of Dnipro National University of Railway Transport named after Academician V. Lazarian

PLENARY SESSION

Samuel Hermela

Gondar University, Ethiopia

GROWTH AND INNOVATIONS OF ETHIOPIA IN INTERNATIONAL COMPARISON

Natalia Gustova

Univercidad de Malaga, España

ECOTURISMO COMO UNA OPORTUNIDAD DE NEGOCIO EN ESPAÑA

Carlos Alfredo

Universidad de São Paulo, Brazil

INFORMAION TECHNOLOGIES IN BRAZIL NOWADAYS

William Antonio

Universidade Técnica de Angola

THE TRENDS THAT WILL SHAPE ANGOLA'S TECHNOLOGY LANDSCAPE

Anderson Veloz

Escuela Politécnica Nacional (EPN)

LAS CIUDADES MÁS GRANDES DE ECUADOR Y SU TRANSPORTE

Ervin Smani

Free University of Brussels, Belgium
INNOVATIONS OF TRAFFIC SAFETY

Vorobyov Volodymyr, MSc in Business studies

Amsterdam Business School, University of Amsterdam, the Netherlands
APPLICATION OF SOCIAL NETWORKS IN ENTREPRENEURSHIP

Vandinh Nguyen

Shanghai Normal University, Vietnam
THE ANALYSIS OF ERRORS OF VIETNAMESE STUDENTS IN USING CHINESE CLASSIFIERS

Ashish Ahuja

Shanghai Normal University, China
THE RESEARCH OF CHINESE TEACHING HISTORY AND IT'S PRESENT SITUATION IN INDIA

Jaunius Gudas

Kaunas Technological University, Lithuania
INNOVATIONS IN THE LITHUANIAN RAILWAY

Darek Jankowicz

University of Wrocław
BIOMETRIC AUTHENTICATION: IS IT FAULTLESS AND RELIABLE?

Muhammad El Issawi

Lauder Business School, Lebanon
TECHNOLOGICAL INNOVATIONS IN LEBANON

N. Sayare

Mohammed V University, Morocco
THE RAILWAYS OF MOROCCO, TUNISIA AND ALGERIA

Van Mozes

Cape Peninsula University of Technology (CPUT), South Africa
THE INNOVATION OF «TICKETLESS TRAVEL» AND HIGH- HYPER SPEED RAIL

A.A. Kyseljowa

Universität für Sozial- und Geisteswissenschaften, Polen
KÜNSTLICHE ORGANE FORSCHER ZÜCHTEN MINI - GEHIRNE IM LABOR

L. Lesjuk

Technische Universität Wien, Österreich
NEUE BAUTECHNOLOGIEN FÜR GEBÄUDETECHNIK

M. Penot

Universität Rhein-Waal, Kleve, Deutschland
NANOMATERIALIEN IN UNSEREM LEBEN

WORKING SESSION

SECTION 1. TRANSPORT TECHNOLOGIES AND EQUIPMENT

D. A. Bondar

Dnipro National University of Railway Transport named after Academician V. Lazarian
HYBRIDFLEX PROGRAMME. SWITCHING DIESEL TRAIN TO HYBRID BATTERY

R. N. Bondarenko

Dnipro National University of Railway Transport named after Academician V. Lazarian
DEFINITION OF TECHNOLOGICAL PARAMETERS EFFECT IN A SUPPLY CHAIN
OF PERISHABLE CARGOES ON THE EXPENSES OF TRANSPORTATION
SERVICES

D. V. Denysiuk

Dnipro National University of Railway Transport named after Academician V. Lazarian
MODERN STRATEGY OF ROAD TRAFFIC MANAGEMENT

Y.V. Fedosova

Dnipro National University of Railway Transport named after Academician V. Lazarian
PERSPECTIVES OF LOGISTICS IN THE FUTURE

O.O. Horbonos

Dnipro National University of Railway Transport named after Academician V. Lazarian
INNOVATIONS IN TRANSPORT ORGANIZATION

R. V. Hudzenko

Dnipro National University of Railway Transport named after Academician V. Lazarian
FACIAL RECOGNITION SOFTWARE AT TRAIN STATION

Dmytro Grabovskiy

Dnipro National University of Railway Transport named after Academician V. Lazarian
SOME TECHNOLOGICAL INNOVATIONS IN RAILWAYS

K.G. Ivchenko

Dnipro National University of Railway Transport named after Academician V. Lazarian
THE IMPORTANCE OF SWISS AND GERMAN RAILWAYS

D.A. Kurpil

Kharkiv National Automobile and Highway University
TECHNOLOGY OF THE PAST, A STEP INTO THE FUTURE

V.A. Levchenko

Dnipro National University of Railway Transport named after Academician V. Lazarian
IMPROVING THE ENVIRONMENTAL SITUATION BY INTRODUCING
HYDROGEN TRAINS

A.A. Makarova

Kharkiv National Automobile and Highway University
TRAFFIC SIMULATION PROGRAMS

O. M. Sakal

Dnipro National University of Railway Transport named after Academician V. Lazarian
TRANSPORTATION MODES AND THEIR EFFECTIVENESS

M.Y. Sharapov

Dnipro National University of Railway Transport named after Academician V. Lazarian
HOISTING MACHINES AND MECHANISMS

N. A. Shytokha

Dnipro National University of Railway Transport named after Academician V. Lazarian
AUTOMOBILE TRANSPORT

M. Y. Soloviov

Kharkiv National Automobile and Highway University
HOW TO START AND DRIVE AN AUTOMOBILE WITH AN INTERNAL
COMBUSTION ENGINE

O.Y. Strashko

Dnipro National University of Railway Transport named after Academician V. Lazarian
CRISIS PHENOMENA OF THE UKRAINIAN RAILWAY INDUSTRY

O.S. Yashenko

Kharkiv National Automobile and Highway University
MODERNIZATION OF THE FUTURE CAR

I.O. Demianenko

L'Université d'Etat Agrotechnique de Tavia de D. Motorny
Le tracteur, en tant que machine de base dans le parc technique diversifié

**SECTION 2. ADVANCEMENTS, PROBLEMS, AND PERSPECTIVES OF
ENGINEERING**

D.D. Demchuk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
SIMULATION OF ISOTROPIC SURFACES WITH QUASICONFORMAL
PARAMETER REPLACEMENT

Homeniuk Anna

SI «Dnipropetrovsk medical academy»
NANOMEDICINE

V.V. Gizhko

Dnipro National University of Railway Transport named after Academician V. Lazarian
WORLD'S FIRST HYDROGEN SUPERYACHT

O. D. Havrylova

National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”
VIRTUAL REALITY IN AUTOMATION

D. V. Konko

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
INSTALLATION FOR THE STUDY OF THE DRYING PROCESS OF WOOD CHIPS
(BIOMASS)

Y.V. Leshchenko

Kyiv National University of Technologies and Design
AUTOMATION IN THE MODERN WORLD

E.A. Megelbey

Dnipro National University of Railway Transport named after Academician V. Lazarian
ELECTRICAL STIMULATION

Zh. I. Ostapenko

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institution»
EXPERIMENTAL INVESTIGATION OF THE EXTRACTION PROCESS IN
ULTRASONIC CONDITIONS

O.V. Petishin

National Technical University of Ukraine «Igor Sikorsky Polytechnic Institute»
SOLAR POWER

P.A. Pyliuk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
INCREASING THE INTENSIFICATION OF HEAT EXCHANGE BY TURBULATORS
WITH PARTIAL TWIST OF THE FLOW

V.D. Semenchuk

Kharkiv National Automobile and Highway University
FUTURE OF MECHANICAL ENGINEERING

M.Yu. Shkuta

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
THE CLIMATE CRISIS AS THE CHALLENGE FACING ENGINEERING

V.S. Strukov

Dmytro Motornyi Tavria State Agrotechnological University
VARIETIES OF ALTERNATIVE FUEL IN THE MODERN WORLD

**SECTION 3. MODERN ECONOMIC PROBLEMS AND WAYS OF THEIR
SOLVING**

A.Ya. Khomazyuk

Kyiv National University of Technologies and Design
PROBLEMS OF INTELLECTUAL CAPITAL MANAGEMENT IN THE CONTEXT OF
INNOVATIVE DEVELOPMENT

D.O. Klymenko

The National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
REAL ESTATE PLATFORM

L.P. Kurgan

Dmytro Motorny Tavria State Agrotechnological University

ROLE OF INTANGIBLE ASSETS AND THEIR ASSESSMENT IN THE MODERN ECONOMY OF UKRAINE

Dariia Lysa

Lviv Polytechnic National University

THE MODERN LEVEL OF DEVELOPMENT AND THE PROSPECTS OF THE MILK SECTOR OF THE VINKOVETSKY CHEESE FACTORY LLC

O.O. Radolova

Dmytro Motorny Tavria State Agrotechnological University

ADVANTAGES AND DISADVANTAGES OF PUBLIC FUNDING

K. A. Shchur

Kyiv National University of Technology and Design

INVESTMENT ACTIVITY

L.V. Shevchenko

Kyiv National University of Technologies and Design

PROBLEMS OF DEVELOPMENT OF AUDIT IN UKRAINE

SECTION 4. INFORMATION TECHNOLOGIES

K.O. Ananieva

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QUANTUM CRYPTOGRAPHY: MODERN STATE AND PROSPECTS OF DEVELOPMENT

A.R. Berezina

Kharkiv National University of Radio Electronics (KNURE)

BLOCKCHAIN TECHNOLOGY IN COUNTERING CYBER TERRORISM

I.V. Boiko

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»

RAPID PROTOTYPING CLOUD SERVICE

O.A. Bokan

Kharkiv National Automobile and Highway University

ROBOT SOFTWARE

M.A. Bytyk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»

AUTOMATED SYSTEM FOR MODELING AND ANALYSIS OF ADMINISTRATIVE FUNCTIONS OF AN ORGANIZATION

O. Chaus

Kyiv National University of Technologies and Design

ARTIFICIAL INTELLIGENCE AND ROBOTICS

V.Y. Dieiev

Dnipro National University of Railway Transport named after Academician V. Lazarian
HOW TO THINK LIKE A PROGRAMMER

Denys Hiliavskiy

Dnipro National University of Railway Transport named after Ac. V. Lazarian
THE EFFECT OF INFORMATION TECHNOLOGY OUTSOURCING ON THE BRAIN
DRAIN PHENOMENON

Vitaliy Hlembotckiy

Kyiv National University of Technologies and Design
GAME DEVELOPER PROFESSION

V. H. Hukovskiy

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
ARTIFICIAL INTELLIGENCE NOWADAYS

V. Glushchenko

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CLOUD TECHNOLOGY

I. M. Gorbunov

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COMPUTER GRAPHICS

R. E. Filimonov

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NEW OPPORTUNITIES IN 3D PRINTING

M.V.Ihnashkina, V.O.Alieksieienko

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INFORMATION SECURITY NOWADAYS

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ARTIFICIAL INTELLIGENCE AT UNIVERSITY

D. Kasko

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QUANTUM COMPUTING: WHY IT TAKES SO MUCH TIME TO DEVELOP IT

A.Y. Khodyrieva

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
HARDWARE RESERVATIONS IN INDUSTRIAL AUTOMATION

V.V. Kolesnyk

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THE REQUIREMENTS SAVING THE INNOVATIVE PRODUCT

M.V. Kolibaba

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MODERN INFORMATION TECHNOLOGIES

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HOME ROBOTS OR HUMANOID ASSISTANT

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WHAT IS BIG DATA?

V. K. Krasnovyd

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THE IMPORTANCE OF 3D MODELING

Z. Kravchuk

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SMART HOME

D.V. Kurovska

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USER EXPERIENCE DESIGN

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ARTIFICIAL INTELLIGENCE RESEARCH

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COMMISSIONING OF AUTOMATED CONTROL SYSTEMS USING IIOT SOLUTIONS

A. A. Myzuchenko

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MULTIFACETED TECHNOLOGY NVIDIA RTX DEVELOPMENT

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SOLVING THE PROBLEM OF DATA STORING USING CLOUD STORAGE

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MICROPROCESSOR MADE OF CARBON NANOTUBES

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QUANTUM COMPUTERS IN THE MODERN WORLD

O. M. Okushko

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A QUANTUM FUTURE COULD BE WELL

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Kharkiv National University of Radioelectronics
EVOLUTION OF MOBILE INFORMATION INFORMATION

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MEGA THE CLOUD STORAGE

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MODERN INFORMATION TECHNOLOGIES IN TRANSPORTATION

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CONTROL AND POWER DISTRIBUTION ALGORITHMS FOR CASCADES OF CHILLERS

Igor Samusenko

Kyiv National University of Technologies and Design
WEB DEVELOPMENT AS A BRANCH OF INFORMATION TECHNOLOGY

A.V. Serbeniuk

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DEBUGGING

Bogdan Shyker

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DEEP LEARNING TECHNIQUES FOR BREAST CANCER RISK PREDICTION

M. A. Steshenko

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HOW TO PROTECT DIGITAL INFORMATION

Michael Vietluzhskykh

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DOMAIN-SPECIFIC LANGUAGES

K.P. Vrakina

Kharkov National University of Radioelectronics
5G THE PLATFORM FOR INNOVATION

M.Y. Vyskarka

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DEFINITION OF SOFTWARE ENGINEERING AND SOFTWARE ENGINEERING LAYERS

D. A. Yekhalova

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HOW TECHNOLOGIES CAN IMPROVE LIFE OF AN URBAN CITIZEN

D. S. Yunik

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COMPUTER VISION

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QUANTUM COMPUTER AND INSURMOUNTABLE DIFFICULTIES

R.V. Zhuravlov

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NEURAL NETWORK DEVELOPMENT

SECTION 5. ENERGY EFFECIENCY

B. O. Baka, M. M. Rozhkovsky

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HYDROGEN AS A PERSPECTIVE SOURCE OF ENERGY FOR RAILWAY
TRANSPORT

D.V. Badaka

Dnipro National University of Railway Transport named after Academician V. Lazarian
PROVISION OF FEEDING OF THE POOL OF ENDURANCE IN THE CONDITIONS
OF LONG COMPLETE DECOMMISSIONING OF THE NPP

V.P. Boianivskiyi

The National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
INVESTIGATION EFFICIENCY OF OPERATION OF THERMOELECTRIC HEAT
PUMP ALTEC-7005

A.M. Fershal

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
AXIAL FORCES ACTING ON THE TURBINE THRUST BEARING

O. V. Honcharov

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MODERN SYSTEMS OF STORAGE OF ELECTRIC ENERGY

D.I. Hurov

National technical university of Ukraine the «Igor Sikorsky Kyiv Polytechnic Institute»
THE INFLUENCE OF INCLINATION ANGLE ON THE HEAT TRANSFER
CHARACTERISTICS OF MINIATURE THERMOSIPHONS WITH NANOFLUIDS

M.V. Ivanova

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TODAY'S ATOMIC ENERGY OF UKRAINE

O.O. Kobylianska

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RESEARCH OF RULES OF NITROGEN OXIDE OCCURRENCE IN GAS FUEL
COMBUSTION UNDER JNS

Yu.O. Kuyek

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ENERGY CONVERSION EFFICIENCY OF STEAM TURBINES

B.A. Marysiuk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
PERSPECTIVES OF THE MOBILE MICRO-ENERGY COMPLEX USING

T.O. Misiura

The National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
THERMODYNAMIC EFFICIENCY OF SEWAGE WATER HEAT UTILIZATION IN
HEATPUMP HEATING AND VENTILATION SYSTEM

O.V. Nekrashevych

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
CLASSIFICATION OF KEY PERFORMANCE INDICATORS (KPIs)

O.T. Nitsovykh

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
COMBINED HEAT AND POWER PLANTS FOR REDUCING ENERGY COSTS IN
THE MANUFACTURING PROCESS

S.O. Oslovskiy

The National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
THE REAL EFFECT OF USING OF HEAT OF VENTILATION EMISSIONS IN THE
HEAT PUMP HEATING AND VENTILATION SCHEME

M.M. Palamarchuk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
ENERGY OF UKRAINE: CURRENT STATE AND CLOSING PROSPECTS

A.L. Petrechuk

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute».
USING THE WARMTH OF THE ENVIRONMENT IN WINTER TO GENERATE ICE
IN ICICLES IN DIFFERENT WAYS OF IRRIGATION NOZZLES

V.Y. Prymachuk

National Technical University of Ukraine «Igor Sikorsky Polytechnic Institute»
INTENSIFICATION OF HEAT TRANSFER IN SINGLE TUBES OF DIFFERENT
PROFILE

K.O. Udovychenko

Dmytro Motornyi Tavria State Agrotechnological University
THE ADVANTAGES AND DISADVANTAGES OF USING LED LIGHT BULBS

SECTION 6. ECOLOGICAL SAFETY

S.V. Andrushchenko

Dmitro Motornyi Tavria State Agrotechnological University
MODERN WAYS OF SOLVING BASIC ENVIRONMENTAL PROBLEMS

N. O. Babenko

Kyiv National University of Technologies and Design
HUMAN IMPACT ON THE AIR

Berkut M.A.

Prydniprovsk State Academy of Civil Engineering and Architecture
THE THREAT OF GLOBAL WARMING TO OUR PLANET

N.A. Chumakova

Kyiv National University of Technologies and Design
ENVIRONMENTAL PROTECTION: OUR WATER RESOURCES ARE IN DANGER

O.M. Golovina

Kyiv National University of Technologies and Design
THE ENVIRONMENTAL PROBLEMS IN LEATHER PRODUCTION

E. O. Kryvokon

National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
GIS ANALYSIS OF THE QUALITY OF AQUATIC ECOSYSTEMS OF UKRAINE

K.A. Maryniaka

Kyiv National University of Technologies and Design
PROSPECTS FOR THE DEVELOPMENT OF BIOPLASTICS

D.M. Mikhailyuk

Kyiv National University of Technologies and Design
THE EFFECTS OF OCEAN POLLUTION

Y. V. Pervun

Kyiv National University of Technologies and Design
HARMFUL INFLUENCE OF PHOSPHATE DETERGENTS ON AQUATIC LIFE AND
HUMANS' HEALTH

J.V. Petrenko

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CONSTRUCTION ECO-FRIENDLY SOLUTIONS

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DEFORESTATION: TERRIFIC CONSEQUENCES AND REASONABLE SOLUTIONS

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MODERN METHODS OF ENVIRONMENTAL PROTECTION

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ECOLOGY AND TRANSPORT

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AIR POLLUTION IN IRAN: EFFECTS ON HUMAN HEALTH AND PRACTICAL
MEASURES FOR ITS PREVENTION

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WASTE DISPOSAL: WAYS OF PURIFYING AIR AND WATER

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GREENHOUSE EFFECT: THE SITUATION IN UKRAINE

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PLASTIC DISASTER: HOW PLASTIC POLLUTES THE OCEAN AND LAND

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PROBLEMS WITH RECYCLING OF POLYMER MATERIALS

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ENVIRONMENTAL SAFETY

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FUTURE INNOVATIVE CONSTRUCTION TECHNOLOGIES

M.D. Moskovtsev

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THE ADVANCED TECHNOLOGIES THAT ARE CHANGING CONSTRUCTION
INDUSTRY

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BENEFITS OF 3D POLYMER MODELS PRINTING FOR ARCHITECTS

**SECTION 8. HUMANITIES AS INTEGRAL PART OF PROFESSIONAL
TRAINING**

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Rivne State University of the Humanities
THE CORRELATION OF LINGUISTIC AND COGNITIVE STRUCTURES

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PSYCHOLOGY ROLE IN TEACHERS-TO-BE TRAINING

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PECULIARITIES OF THE ENGLISH-UKRAINIAN FILM TRANSLATION

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EXPERIENTIAL LEARNING ACTIVITIES IN TEACHING ENGLISH AS A FOREIGN
LANGUAGE AT TERTIARY SCHOOLS

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STANDARDIZATION OF THE CONSTRUCTED LANGUAGES SYSTEM

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HUMANITARIAN COMPONENT IN TECHNICAL SPECIALITIES

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THE INFLUENCE OF THE URBAN ENVIRONMENT ON THE HUMAN MENTAL
HEALTH

GERMAN LANGUAGE SECTION

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ANGLIZISMEN IM DEUTSCHEN

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MOTIVATION DER ARBEIT IN DEUTSCHEN UNTERNEHMEN UND
UMSETZUNGSMÖGLICHKEITEN IN DER UKRAINE

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GERMANISMEN IN FREMDSPRACHEN

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UNTERSUCHUNG DER WIRKSAMKEIT VON MAGNETSCHIENENBREMSSEN

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AUSBLICK EUROPA EISENBAHNLAND MIT LANGER TRADITION

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DIE EISENBAHNSYSTEME IN ITALIEN UND IN SPANIEN

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WEITERENTWICKLUNG UND KONKURRENZVORTEIL DER BAHNEN

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DIE ZUKUNFTSTRÄCHTIGKEIT DER EISENBAHN

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DIE ENTWICKLUNG DER INTERKULTURELLEN KOMMUNIKATION

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DIE PROBLEME DER ENTWICKLUNG DER
EISENBAHNPERSONENBEFÖRDERUNGEN IN DER UKRAINE

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DIE EWIGE INGENIEURKUNST AUS STAHL UND BETON

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DIE PROZESSE DER INTERNATIONALISIERUNG UND GLOBALISIERUNG IM
ASPEKT DES EUROPÄISCHEN BAHNTRANSPORTES

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DIE GROSSEN INGENIEURLEISTUNGEN DES 20. JAHRHUNDERT

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KURZSCHLIEßVORRICHTUNGEN

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NEUE NIEDERFLURFAHRZEUGE