

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



PROGRAMME

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

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

November 22, 2018 (Dnipro, Ukraine)

Dnipro

2018

НАУКОВИЙ КОМІТЕТ КОНФЕРЕНЦІЇ:

Голова наукового комітету конференції:

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

Члени наукового комітету конференції:

Боднар Б. Є. – д.т.н., проф., перший проректор Дніпропетровського 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 Дніпропетровського 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;

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Мунтян А.О. – канд.філол.н., доцент, завідувач кафедри іноземних мов Дніпропетровського 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 Дніпропетровського національного університету імені Олеся Гончара;

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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;

Малий А. – студентка 726 гр. ДНУЗТ;

Беденко М. – студент 922 гр. ДНУЗТ.

PROGRAMME

**of the 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 Dnipropetrovsk National University of Railway Transport named after Academician V. Lazarian

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

PLENARY SESSION

Natalia Gustova, Universidad de Málaga, España

EFFECTOS DEL CAMBIO CLIMÁTICO SOBRE EL TURISMO EN ESPAÑA

Rosemberg Shakti, École Normale Supérieure, France

GOOGLE X AND THE SCIENCE OF RADICAL CREATIVITY

Shao Jie, Nanjing University, China

SCIENTISTS BLASTED MIRRORS WITH LASERS TO LISTEN TO LIGHT

Chia Maximil, Cameroon

INFORMATION COMMUNICATIONS TECHNOLOGY (ICT) EFFECT ON THE DEVELOPMENT OF CAMEROON'S ECONOMY

Wu Liangyu, Yangzhou University, China

STRUCTURE AND CAPACITANCE OF ELECTRICAL DOUBLE LAYERS AT THE GRAPHENE-IONIC LIQUID INTERFACE

A.A. Kyselova, Universität für Sozial- und Geisteswissenschaften, Polen

SECHS WICHTIGE MEDIZIN-INNOVATIONEN: JETZT UND IN DEN NÄCHSTEN MONATEN UND JAHREN

Roland Kesper, Hochschule Rhein-Waal
IM MASCHINENBAU GEHT NICHTS OHNE IT-WISSEN

J. Weglarz, Universität für Sozial- und Geisteswissenschaften, Polen
DER ROBITER IM MENSCHLICHEN KÖRPER

David Andres Penzuela, Florida International University
PORTABLE 3D SCANNER

Arvind Sommi, Florida International University
TINY, SOLAR-POWERED SENSORS

Pedro Chieva, Angola
TRAFFIC CONTROL SYSTEM IN ANGOLA

WORKING SESSION

SECTION 1. TRANSPORT TECHNOLOGIES AND EQUIPMENT

Rostislav Antohov, Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian
TRANSPORTATION SOLUTIONS OF THE VENUS PROJECT

K.S. Babenko, Kharkiv National Automobile and Highway University
MULTIMODAL TRANSPORTATION PLANNING

I.A. Bevz, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian
PROBLEMS AND DEVELOPMENT OF PUBLIC TRANSPORT

A. Bolshak, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian
ALFA-X EXPERIMENTAL TRAIN: INCREASING SPEED UP TO 400 KM/H

K. T. Borodulin, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian
INNOTRANS EXHIBITION LEADERS

A.A. Dyadchenko, Kharkiv National Automobile and Highway University
THE IMPORTANCE OF TRANSPORTATION TO TOURISM DEVELOPMENT

Diana Dyka, Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian
WOMEN-ONLY TRAIN CARRIAGES: IS IT A GOOD OR BAD IDEA?

Roman Hudzenko, Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian
TRAVEL TIME EFFICIENCY

O.P. Karasov, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
COMPARISON OF ENERGY EFFICIENCY DETERMINATION METHODS FOR THE INDUCTION MOTORS

W. I. Karnauhova, *Kharkiv National Automobile and Highway University*
DEVELOPMENT OF AUTOMOBILE TRANSPORT IN OUR DAYS

Olha Klymenko, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
THE PREVENTION OF CRIME ON PUBLIC TRANSPORT

R.M. Kompaniiets, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
MODERN FLYING DEVICE - AS THE WAY OF COMMERCIAL INSPECTION OF TRAINS

O.D. Kononenko, M. A. Hrebeniuk, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
TO THE PROBLEMS OF RAIL FREIGHT TRANSPORTATION IN EUROPE

O.V. Kukharchuk, *Kharkiv National Automobile and Highway University*
SELF-DRIVING VEHICLES IN MODERN LOGISTICS

C.A. Litvinenko, *Kharkiv National Automobile and Highway University*
ROADS OF THE FUTURE

K.S. Maliar, *Kharkiv National Automobile and Highway University*
MODERN SYSTEMS OF PASSENGER TRANSPORTATION

N. Nazarova, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
THE FUTURE POTENTIAL BENEFITS OF ELECTRIC CARS AND SELF-DRIVING SYSTEMS

K.V. Priymachenko, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
THE PROBLEM OF UKRAINIAN RAILWAY. IDLE CARS

J.S. Rusanova, *Kharkiv National Automobile and Highway University*
AUTOMOBILE DEPENDENCY

O.M. Sakal, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
NEGATIVE IMPACTS OF CARS ON THE PEOPLE AND ENVIRONMENT

A.Y. Salo, *Kharkiv National Automobile and Highway University*
TECH AND THE FUTURE OF TRANSPORTATION

S.V. Shariy, *Université nationale des automobiles et des ponts et chaussées de Kharkiv*
LE TRANSPORT DES MARCHANDISES DANGEREUSES EN UKRAINE

A.A. Shevchenko, Kharkiv National Automobile and Highway University
CRITERIA FOR CHOOSING A MODE OF TRANSPORT

E.O. Sokol, Kharkiv National Highway University
MODERN WAYS TO MONITOR ROAD SAFETY

*P.V. Umnov, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
THE WORK OF LOCOMOTIVES WITH TRAINS

*O. Vasilenko, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
CHINA INTENDS TO BUILD A RAILWAY TUNNEL UNDER MOUNT EVEREST

A.S. Zaporozhets, Kharkiv National Automobile and Highway University
FEATURES OF THE DEVELOPMENT OF THE WORLD'S TRANSPORT SYSTEMS

SECTION 2. ADVANCEMENTS, PERSPECTIVES, AND PROBLEMS OF ENGINEERING

D. Alekseychuk, Kharkiv National Automobile and Highway University
BRAKE SYSTEM INSTALLATION

*B.O. Baka, M.M. Rozkovsky, Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
MULTICOPTERS AND QUADCOPTERS: THEIR PROSPECTS AND APPLICABILITY

E.R. Chernyshova, Dnipropetrovsk Medical Academy of Health Ministry of Ukraine
CYBORGS: THE TRUTH ABOUT HUMAN AUGMENTATION

V.V. Filonov, National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
ON EXPERIMENTAL AND COMPUTATIONAL INVESTIGATION OF HEAT TRANSFER
DETERIORATION AND HYDRAULIC RESISTANCE IN ANNULAR CHANNEL AND
SCWR 3-ROD BUNDLE

Y.S. Filonova, National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»
REACTOR CORE BAFFLE TEMPERATURE DISTRIBUTION EVALUATION FOR
SWELLING ASSESSMENT

*V. Gorniaga, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
CAN GIANT MAGELLAN TELESCOPE HELP PEOPLE TO FIND LIVING BEINGS IN THE
UNIVERSE?

*E. P. Kibirieva, A. A. Mishenkov, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
ADVANTAGES AND DISADVANTAGES OF MODERN TECHNOLOGIES

Y.S. Kokotina, *Kharkiv National Automobile and Highway University*
ELECTRIC VEHICLES ARE THE FUTURE OF MOTORING

A.A. Kyselova, *SWPS: University of Social Sciences and Humanity, Poland*
STENT RETRIEVER TECHNOLOGY

A.A. Kyselova, *SWPS: University of Social Sciences and Humanity, Poland*
IS THERE A SLIPPERY SLOPE FROM PROTHETICS TO CYBORGS?

E.A. Megelbey, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
SPOTMINI THE ROBOT

Maxim More, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
THE EFFECTS OF THE GENE TECHNOLOGY

A.N. Moukhina, *Alfred Nobel University, Dnipro, Ukraine.*
MODERN CONDITION OF DEVELOPMENT OF PSYCHOLOGICAL SERVICE IN HIGHER
EDUCATIONAL INSTITUTIONS OF UKRAINE

A.R. Palaguta, *Dnipropetrovsk Medical Academy of the Ministry of Health of Ukraine*
LASER EQUIPMENT IN DIAGNOSTICS AND TREATMENT OF SKIN DISEASES

K. Serdiuk, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
INVESTIGATION OF ELECTROMAGNETIC COMPATIBILITY OF TRACK CIRCUITS
WITH THE TRACTION SUPPLY SYSTEM

N.V. Tomilin, *Dnipropetrovsk State Medical Academy*
MODERN MEDICAL TECHNOLOGY

A.P. Yaryza, *Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
DRONES COULD CHANGE THE RAILWAY INDUSTRY

A.V. Zubko, *Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
BENEFITS OF USING MODERN SWITCH DRIVES

SECTION 3. MODERN ECONOMIC PROBLEMS AND WAYS OF THEIR SOLVING

A.V. Bednyak, *National Technical University «Dnipro Polytechnic»*
INCREASING THE EXPORT POTENTIAL OF UKRAINE

D.V. Bednyak, *National Technical University «Dnipro Polytechnic»*
INTERNATIONAL MARKET FOR UKRAINIAN COMPANIES

A.T. Butenko, *National Technical University «Dnipro Polytechnic»*
THE PROBLEM OF FOOD CRISIS AND THE WAYS TO ITS SOLUTION

A.R. Goncharenko, *Kyiv National University of Technologies and Design*
THE FOOD PROBLEM AND WAYS OF ITS SOLUTION

D.O. Govorukha, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
TRANSPORT ECONOMICS

N.V. Karpenko, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
GLOBALIZATION: PROSPERITY OR IMPOVERISHMENT

A.D. Klimenko, *National Technical University «Dnipro Polytechnic»*
WAYS OF INCREASING THE COMPETITIVENESS OF UKRAINIAN PRODUCTS ON THE
INTERNATIONAL MARKET

Viktoriia Kononenko, *Dnipropetrovsk National University of Railway Transport
named after Acad. V. Lazarian*
THE ENGLISH PROFICIENCY AS A KEY FACTOR OF BETTER ECONOMIES

K.L. Laguta, *Kyiv National University of Technologies and Design*
HOW THE UNDEGROUND ECONOMY AFFECTS GDP

Alexander Lapshin and Nikolai Komendantov, *Dnipropetrovsk National University of Railway
Transport named after Acad. V. Lazarian*
DIGITAL CURRENCIES OPPORTUNITIES AND THE CONS

A.V. Litovchenko, *Dnipropetrovsk National University of Railway Transport
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INSURANCE AND PROSPECTS OF ITS DEVELOPMENT IN UKRAINE

K. A. Shchur, *Kyiv National University of Technologies and Design*
FEATURES OF THE ACCOUNTING OF CAPITAL INVESTMENTS

L.V. Shevchenko, *Kyiv National University of Technologies and Design*
PROBLEMS OF ACCOUNTING OF CASHLESS SETTLEMENTS IN UKRAINE

T. I. Vityuk, *Kyiv National University of Technologies and Design*
WAYS TO OVERCOME PROBLEMS OF MANUFACTURING INVENTORY
ACCOUNTING IN UKRAINE

P.S. Volkovynska, *Kyiv National University of Technologies and Design*
NATIVE ADVERTISING AND MAJOR TRENDS

P.V. Yehorova, *National Technical University «Dnipro Polytechnic»*
REGULATION OF ENTERPRISES' FOREIGN ECONOMIC ACTIVITY

SECTION 4. INFORMATION TECHNOLOGIES

K.O. Ananieva, *Dnipropetrovsk National University of Railway Transport named after Acad. V.Lazarian*
QUANTUM COMPUTER AS A NEW CLASS OF COMPUTERS IN FUTURE

O.I. Bandurka, *National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»*
MODELING OF HYDROGENESIS YIELD DURING PLANT MATERIAL FERMENTATION

O.I. Bandurka, L.O. Kursenko, *National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»*
THE SYSTEM OF CHOICE OF OPTIMAL SCHEMES OF POPULATION VACCINATION USING EPIDEMIOLOGICAL DATA

V.A. Bazhin, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
DATA SECURITY

M.O. Bedenko, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
ARTIFICIAL INTELLIGENCE IN OUR DAILY LIFE

Yehor Bilokrynytskyi, Oleksij Nikolskij, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
MODERN TECHNOLOGIES IMPROVING THE PRESENT AND IMPACTING THE FUTURE

Sofia Deberyna, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
WILL COMPUTERS PUT US OUT OF WORK?

O.D. Denysenko, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
THE MAIN ADVANTAGES OF CLOUD STORAGE ON THE VIRTUALIZATION TECHNIQUES

R. O. Kotenko, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
ARTIFICIAL INTELLIGENCE

A. Kozynets, *Kharkiv Petro Vasylenko National Technical University of Agriculture*
EDUCATION AND IT TECHNOLOGIES

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THE ROLE OF INFORMATION TECHNOLOGY IN OUR LIVES

V.A. Kulik, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*
SONOLUMINESCENCE: SOUND INTO LIGHT

A.A. Kyselova, SWPS: University of Social Sciences and Humanity, Poland
GOOGLE BRAIN

*I.V. Leontiieva, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
THE APPLICATION OF ARTIFICIAL INTELLEGENGE TECHNOLOGIES IN
TRANSPORTATION

M.Ya. Mukhin, Kharkiv National Automobile and Highway University
NETWORK SECURITY

*Kirill Nenahov, Dnipropetrovsk National University of Railway Transport
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TECHNOLOGY INNOVATION – MODERN TRENDS AND OPPORTUNITIES

*Y.D. Ostapets, Dnipropetrovsk National University of Railway Transport
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CURRENT ISSUES OF INFORMATION SECURITY

*M.A. Steshenko, Dnipropetrovsk National University of Railway Transport
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IMPACT OF THE INSTANT MESSAGING TECHNOLOGY ON HUMAN INTERACTIONS

*P. Sulima, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
ENCRYPTING RANSOMWARE PETYA TARGETED UKRAINE

*Bohdan Yakovenko, Dnipropetrovsk National University of Railway Transport
named after Acad. V.Lazarian*
CYBERCRIME: THREATS AND METHODS OF FIGHTING

SECTION 5. ENERGY EFFECIENCY

*I. S. Bednarska, National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic
Institute»*
ANALYSIS OF METHODS ON THE EXTINCTION OF THE PERIOD OF OPERATION OF
ENERGY EQUIPMENT

*O.M. Bospala, National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic
Institute»*
SEARCH FOR OPTIMAL USE OF POWER SOURCES

*Y.S. Kuzmyna, National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic
Institute»*
BUILDING ENERGY MODELLING AND CFD STUDY USING RADIANT HEATING
SYSTEM

*H.S. Martynenko, National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic
Institute»*
NANOFLUIDS AS A PERSPECTIVE WORKING FLUID FOR TWO-PHASE COOLING
SYSTEMS

B.A. Marysiuk, *National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic Institute»*

PROSPECTS FOR GASIFICATION WASTE IN UKRAINE

V.P. Mazur, *National Technical University of Ukraine «Igor Sikorsky Kiev Polytechnic Institute»*
INCREASING THE EFFICIENCY OF SOLAR PANELS

A.S. Tolok, *Kharkiv National Automobile and Highway University*
TECHNOLOGICAL ADVANCEMENTS SURPASSING OUR EXPECTATIONS

E. A. R. Usmonov, *Kharkiv National Automobile and Highway University*
ROBOTIC GEARBOX

I.I. Yudin, *National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»*
PLATE HEAT EXCHANGERS

SECTION 6. ECOLOGICAL SAFETY

Anastasiia Artemenko, Hannah Tuluk, *The National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»*

EVERYONE CAN SAVE ECOLOGY USING SOLAR PANELS

O.O. Huba, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

ECOLOGICAL PROBLEMS OF KAMYANSKE

SECTION 7. MODERN TECHNOLOGIES IN BUILDING

D.M. Ivanushkina, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

MODERN TECHNOLOGIES IN CONSTRUCTION

M. Linnyk, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

HOW TO CHANGE CONSTRUCTION USING FUTURISTIC TECHNOLOGIES

N. Nushtaev, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

WILL UNDERGROUND SYSTEM IN DNIPRO BE LENGTHENED IN A FEW YEARS?

D.Votchenko, R. Konstantinov, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

MAGDEBURG WATER BRIDGE IS THE LONGEST NAVIGABLE AQUEDUCT IN THE WORLD

I.O. Demianenko, *L'Université d'Etat Agrotechnologique de Tavria*

LA SPÉCIFICITÉ DE LA PRODUCTION ET DE L'UTILISATION DU MATÉRIEL AGRICOLE EN FRANCE ET EN UKRAINE

SECTION 8. HUMANITIES AS INTEGRAL PART OF PROFESSIONAL TRAINING

M. D. Bereziuk, *Oles Honchar Dnipro National University*

ENGLISH PHRASEOLOGICAL UNITS AND THEIR TRANSLATION IN THE TEXTS OF ORATORY STYLE

M.V. Ihnashkina, D.Ye. Herasymov, *Dnipropetrovsk National University of Railway Transport named after Acad. V. Lazarian*

CONTRIBUTION OF HUMANITIES TO TECHNICAL SPECIALITIES

GERMAN LANGUAGE SECTION

K.O. Baranyk, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

HIGH – TECH - WARTUNG FÜR HOCHGESCHWINDIGKEITSZÜGE

O.V. Fedenko, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

ZUKUNFT VON MEHRSYSTEMSTADTBAHNEN

V.O. Jarema, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

INTERNATIONALE VERKEHRSKNOTENPUNKTE IN BALTIK

A.S. Kondraschow, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

ALTE UND MODERNE BAHNHÖFE FÜR DIE WEITLÄUFIGE SCHIENENNENETZ

R.B. Kosakiw's'kyi, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

KOMBINIERTER BRÜCKE IN CHINA

L. Lesjuk, *Staatliche Bau- und Architekturakademie, St. Dnipro*

DIE WICHTIGSTEN TRENDS UND TECHNOLOGIEN IM BAU UND BAUINDUSTRIE 2020

A.S. Masur, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro, namens des Akademiemitglieds W.Lasarjan*

EWIGE INGENIEURBAUKUNST AUS STAHL UND BETON – DER BRÜCKENBAU

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LÄRMREDUKTION VARIIEREN

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NATURSCHUTZ IN DEUTSCHLAND

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DER NEUE HOCHGESCHWINDIGKEITZUG BOMBARDIER – ZEFIRO 380

D. O. Skubtschenko, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
namens des Akademiemitglieds W.Lasarjan
DER HUCKEPACKVERKEHR WIE EINE WEISE DER ERHÖHUNG DER UMFÄNGE DES
GUTERVERKEHRS FÜR DIE UKRAINE

D.O. Stepura, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
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TYP C2: DIE NEUE U-BAHN

I.M. Stortscheus, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
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BAHNHÖFE DER WELT

W. Sukatsch, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
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MODERNSTE LASER-MESSTECHNIK IM WAGGONBAU

W. O. Tkatschenko, *Die nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
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DIE GESCHICHTE DER GLEISMESSFAHRZEUGE

T.J. Truschyna, *Die Nationale technische Universität für Eisenbahnwesen, St. Dnipro,*
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ELEKTRISCHE STRECKVERBINDUNGEN FÜR MEHR EFFIZIENZ UND
BETRIEBSQUALITÄT