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**SCIENTIFIC RESEARCH
IN MODERN CONDITIONS
OF INSTABILITY '2023**

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More than 300 doctors of sciences in all areas of the symposium.

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November 29, 2023: The beginning of the sections of the Symposium.

Innovative equipment, technology and industry

APPLICATION OF DISCRETE-PULSE ENERGY INPUT FOR INTENSIFICATION OF PREPARATION OF DRINKING AND PROCESS WATER BY AERATION OXIDATION	Obodovych Oleksandr Mykolaiovych, Doctor of Technical Sciences, Professor, Institute of Engineering Thermophysics of National academy of sciences of Ukraine
	Sydorenko Vitalii Volodymyrovych, Candidate of Technical Sciences, senior researcher, Institute of Engineering Thermophysics of National academy of sciences of Ukraine
	Tselen Bohdan Yaroslavovych, Candidate of Technical Sciences, senior researcher, Institute of Engineering Thermophysics of National academy of sciences of Ukraine
	Stepanova Olesya Evgeniivna, Candidate of Technical Sciences, senior researcher, Institute of Engineering Thermophysics of National academy of sciences of Ukraine
	Rezakova Tetyana Anatoliyivna, Candidate of Technical Sciences, senior researcher, Institute of Engineering Thermophysics of National academy of sciences of Ukraine
ASSESSMENT OF HAZARDOUS PARAMETERS OF HYDROGEN-AIR MIXTURE EXPLOSION DURING OPERATION OF THE COOLING SYSTEM OF A POWER PLANT TURBINE GENERATOR	Semerak Mykhailo Mykhailovych, Doctor of Technical Sciences, Professor, Lviv Polytechnic National University
	Rymar Tetiana Ivanivna, Candidate of Technical Sciences, associate professor, Lviv Polytechnic National University
SCIENTIFIC SUBSTANTIATION OF INNOVATIONS AND THE CONCEPTIONS OF HEALTHY FOODS RESOURCE-EFFECTIVE TECHNOLOGY DEVELOPMENT	Naumenko Nataliia Valentynivna, Doctor of Philology, Professor, National University of Food Technologies
	Sumakhina Galyna Oleksandrivna, Doctor of Technical Sciences, Professor, National University of Food Technologies
IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT CONCEPTION AT THE UKRAINIAN METALLURGY ENTERPRISES	Proidak Yurii, Doctor of Technical Sciences, Professor, Ukrainian state university of science and technologies
	Derevyanko Ihor, Candidate of Technical Sciences, associate professor, Ukrainian state university of science and technologies
	Zhadanos Oleksandr, Candidate of Technical Sciences, associate professor, Ukrainian state university of science and technologies
	Petrenko Maksym, graduate student, Ukrainian state university of science and technologies



APPLICATION OF THE SWIFT METHOD FOR RISK ASSESSMENT IN THE PRODUCTION OF COTTAGE CHEESE	Melnyk Oksana Petrivna, PhD in Chemistry, associate professor, National University of Food Technologies
	Kuzmin Oleh Volodymyrovych, Doctor of Technical Sciences, Professor, National University of Food Technologies
	Niemirich Oleksandra Volodymyrivna, Doctor of Technical Sciences, Professor, National University of Food Technologies
	Mamchenko Liudmyla Yevhenivna, Candidate of Technical Sciences, associate professor, National University of Food Technologies
	Dudarev Igor Mykolaiovych, Doctor of Technical Sciences, Professor, Lutsk National Technical University
	Lytovchenko Oleksandr Mykhailovych, Doctor of Technical Sciences, Professor, Institute of Horticulture NAAS of Ukraine
ON THE FEASIBILITY OF CHOOSING MEANS OF AN ASYNCHRONOUS MOTOR PROTECTION IN INDUSTRIAL CONDITIONS	Kuznetsov Vitaliy, Candidate of Technical Sciences, associate professor, Ukrainian State University of Science and Technologies
	Tryputen Mykola, Candidate of Technical Sciences, associate professor, Dnipro University of Technology

Development of transport and transport systems

CHARACTERISTICS OF THE DIVERGENCE OF VESSELS AT SMALL INITIAL DISTANCES	Kalinichenko Tetiana Valentynivna , graduate student, State University Infrastructure and Technologies
ENVIRONMENTAL STRATEGY OF MULTIMODAL TRANSPORTATION	Cherkudinov Volodymyr , graduate student, Ukrainian State University of Science and Technologies
	Zelenko Yuliya , Doctor of Technical Sciences, Professor, Ukrainian State University of Science and Technologies

Architecture and construction

PROSPECTS OF USING NUMERICAL SIMULATION SOFTWARE FOR WATER HAMMER ANALYSIS AND RESEARCH	Mysak Ihor Vasylovych, Candidate of Technical Sciences, Lviv Polytechnic National University
MODERN SURFACE WATER MANAGEMENT PLAN	Mysak Ihor Vasylovych, Candidate of Technical Sciences, Lviv Polytechnic National University

Medicine and healthcare

POSSIBILITIES OF MSCT, MRI IN COMPARISON WITH THE DIAGNOSTIC CHARACTERISTICS OF THE TWO METHODS IN THE DETECTION OF MALIGNANT FORMATIONS OF THE ABDOMINAL CAVITY	Rozhkovska Galina, Candidate of Medical Sciences, associate professor, Odessa National Medical University
	Dolgushyn Oleg, Odessa National Medical University
	Dius Olena, Odessa National Medical University
	Korsun Oleksandr, Odessa National Medical University
	Dorofeeva Tamara, Candidate of Medical Sciences, associate professor, Odessa National Medical University
	Sokolov Viktor, Doctor of Medical Sciences, Professor, Odessa National Medical University
	Tsvigovskiy Viatcheslav, Candidate of Medical Sciences, associate professor, Odessa National Medical University



THE NETWORK OF FUNCTIONAL AND METABOLIC DISORDERS IN CHILDREN WITH DIABETIC NEPHROPATHY	Burlaka Ievgeniia, Doctor of Medical Sciences, associate professor, Bogomolets National Medical University
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Biology and ecology

PRINCIPLES OF ASSESSING THE RESOURCE POTENTIAL OF OIL-CONTAINING WASTE OF RAILWAY INFRASTRUCTURE	Zelenko Yuliya, Doctor of Technical Sciences, Professor, Ukrainian State University of Science and Technologies
	Bezovska Maryna, Candidate of Technical Sciences, associate professor, Ukrainian State University of Science and Technologies
LEGISLATION OF UKRAINE ON ENVIRONMENTAL PROTECTION AND CHEMICAL SAFETY	Garmash Svitlana Myckolaevna, Candidate of Agricultural Sciences, associate professor, Ukrainian State University of Chemistry and Technology

Agriculture, forestry, fisheries and water management

SCIENTIFIC AND PRACTICAL ANALYSIS OF THE STATE OF THE NATURAL FEED BASE IN PONDS OF SOUTHERN UKRAINE UNDER CONDITIONS OF TRANSFORMATION OF ABIOTIC AND BIOTIC FACTORS	Honcharova Olena Viktorivna, Candidate of Agricultural Sciences, associate professor, Kherson State Agrarian and Economic University
	Kutishchev Pavlo Serhiyovich, Candidate of Biological Sciences, associate professor, Kherson State Agrarian and Economic University
THREATS TO THE SUSTAINABLE DEVELOPMENT OF THE AGRICULTURAL SECTOR AND RURAL AREAS DURING THE RUSSIAN-UKRAINIAN WAR	Kovtun Olena Volodymyrivna, Candidate of Agricultural Sciences, associate professor, Lviv National Environmental University/docent

Economy and trade

THE IMPACT OF ACCOUNTING CONSULTING ON THE EFFICIENCY OF IT-SPHERE ENTERPRISES	Kolach Svitlana Myhailivna, Candidate of Economic Sciences, associate professor, Lviv National University of Environmental Management
	Maletska Olga Ivanivna, Candidate of Economic Sciences, associate professor, Lviv National University of Environmental Management
	Andrushko Ruslana Petrivna, Candidate of Economic Sciences, associate professor, Lviv National University of Environmental Management
	Tsitska Nadia.Evgenivna, Candidate of Economic Sciences, associate professor, Lviv National University of Environmental Management
	Myronchuk Zoriana Petrivna, Candidate of Economic Sciences, associate professor, Lviv National University of Environmental Management
INDUSTRY SPECIFICS AND IMPROVEMENT OF THE FUNCTIONING OF MUNICIPAL HEAT SUPPLY ENTERPRISES	Popova Hanna Yuriiivna, Candidate of Economic Sciences, associate professor, Donbas National Academy of Civil Engineering and Architecture



Management and marketing

SEARCH OF SCENARIOS FOR THE DEVELOPMENT OF FOOD RETAIL IN UKRAINE IN CONDITIONS OF EXTREME UNCERTAINTY	Dankeieva Oksana, Candidate of Economic Sciences, associate professor, National University of Food Technologies
PROTECTION OF INTELLECTUAL PROPERTY IN THE DIGITAL ENVIRONMENT OF INDUSTRY 4.0 IN THE CONDITIONS OF UKRAINE'S MILITARISM	Hordieieva Inna Oleksandrivna, Candidate of Technical Sciences, associate professor, Ukrainian State University of Science and Technologies
SCENARIO PLANNING AS A TOOL FOR MONITORING THE SUSTAINABLE DEVELOPMENT OF ENTERPRISES IN THE ENERGY MARKET	Kuznetsova Inna , Doctor of Economic Sciences, Professor, Odessa National Economic University
	Balabash Olga , Candidate of Economic Sciences, associate professor, Odessa National Economic University
MANAGEMENT STRATEGIES FOR COMPANIES IN CONDITIONS OF DEVELOPMENT AND DIGITAL ADAPTATION WITH AI	Ryzhikova Natalia, Doctor of Economic Sciences, Professor, State Biotechnological University
	Girzheva Olga, Doctor of Economic Sciences, Professor, State Biotechnological University
	Mykytas Arkadii, Doctor of Economic Sciences, Professor, State Biotechnological University
	Mandysh Oleksandra, Doctor of Economic Sciences, Professor, State Biotechnological University

Tourism and recreation

ORGANIZATION OF TOURIST AND EXCURSION ACTIVITIES: RELATIONSHIP OF THE HISTORY OF THE UKRAINIAN STATE AND CULTURE WITH TOURIST NEEDS AND EXPECTATIONS	Aleksieienko-Lemovska Lyudmila Vladislavivna, Candidate of Pedagogical Sciences, associate professor, International European University
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Education and pedagogy

INTEGRATION AND GLOBALIZATION OF HIGHER EDUCATION AT THE RECEPTION OF UKRAINIAN SCIENTISTS (SECOND HALF OF THE 1990S – THE BEGINNING OF THE 20S OF THE 21ST CENTURY)	Snitovska Olga Yosypivna, Candidate of Philology, associate professor, Danylo Halytsky Lviv National Medical University
BIOGRAPHICAL APPROACH TO STUDYING PERSONALITIES OF FOREIGN CULTURAL-EDUCATIONAL FIGURES IN UKRAINIAN PEDAGOGICAL COMPARATIVE STUDIES (1990S FIRST QUARTER OF THE 21ST CENTURY)	Kryvtzun Neonila Znoviyivna , graduate student, Vasyl Stefanyk Precarpathian National University
FUNDAMENTALS OF	Braslavska O., Doctor of Pedagogical Sciences,



INNOVATIVE PEDAGOGICAL ACTIVITIES IN THE EDUCATIONAL TECHNOLOGICAL PROCESS OF TRAINING FUTURE TEACHERS	Professor, Uman Pavlo Tychyna State Pedagogical University
CREATION OF MODERN INNOVATIVE SPACE OF SCHOOL EDUCATION	Herasymenko O., Candidate of Pedagogical Sciences, associate professor, Uman Pavlo Tychyna State Pedagogical University
TECHNOLOGY OF CONDUCT OF NON-TRADITIONAL FORMS OF LEARNING IN EDUCATIONAL INSTITUTIONS	Ozerova L., Candidate of Pedagogical Sciences, Senior Lecturer, Uman Pavlo Tychyna State Pedagogical University
ACTIVE LEARNING METHODS AND THEIR ADVANTAGES OVER TRADITIONAL	Pashchenko M., Candidate of Pedagogical Sciences, associate professor, Municipal Institution "Uman Taras Shevchenko Professional College of Education and Humanities of Cherkasy Regional Council "
EFFICIENCY OF USING MODERN INTERACTIVE TEACHING METHODS IN THE PROCESS OF FUTURE TEACHER TRAINING	Rozhi I., Candidate of Pedagogical Sciences, associate professor, Uman Pavlo Tychyna State Pedagogical University

Psychology and sociology

PSYCHOLOGICAL CHARACTERISTICS OF THE MODERN WOMAN MANAGER	Bedan Viktoriia, Candidate of Psychological Sciences, associate professor, International Humanities University
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Philology, linguistics and literary criticism

THE WORK OF DIOGENES LAERTIUS "LIVES AND THOUGHTS OF EMINENT PHILOSOPHERS" IN THE SPACE OF ANCIENT BIOGRAPHY	Zvonska Lesia, Doctor of Philology, Professor, Taras Shevchenko National University of Kyiv
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Legal and political sciences

MODERNIZATION OF JUSTICE UNDER THE INFLUENCE OF INNOVATIVE TECHNOLOGIES	Moskvyeh Lidiia Mykolaivna, Doctor of Law, Professor, Yaroslav Mudryi National Law University
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November 30, 2023: Summarizing. Recommendations for the publication of materials in the monograph. Closing of the annual scientific-practical Symposium.

Chairman of the Organizing Committee
 Doctor of Technical Sciences, Professor, Academician

A.G. Shibaev

SWorld Project Manager
 Ph.D.



S.V. Kuprienko