



10 th edition

**National Scientific Conference
"e-FACTORY OF SCIENCE"**

November 25, 2023

Conference Schedule

ON-LINE PRESENTATIONS

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
1. 10:00 – 10:10 **BARTOSZ BEZUBIK**
(*BIAFORM S.A.*)
TECHNOLOGICAL CHANGES APPLIED BY BIAFORM SA IN PRODUCING NON-STANDARD PLYWOOD FOR SPECIALISED APPLICATIONS IN THE CONSTRUCTION AND AUTOMOTIVE SECTORS
2. 10:10 – 10:20 **WŁADYSŁAW BŁOCKI**
(*University of Information Technology and Management in Rzeszów*)
APPLICATION OF GRAPH THEORY TO THE ANALYSIS OF HIGH VOLTAGE POWER NETWORKS
3. 10:20 – 10:30 **WOJCIECH CIEŻ**
(*Elplant Sp. z o.o.*)
UNI-BUS SYSTEM BY ELPLANT SP. Z O. O. AS AN EXAMPLE INNOVATION, INTUITIVENESS AND EFFICIENCY IN AGRICULTURE
4. 10:30 – 10:40 **MARTA DURSKA**
(*University of Warmia and Mazury*)
MELANOPHOROMA IN AXOLOTL (*AMBYSTOMA MEXICANUM*) – A CASE STUDY
5. 10:40 – 10:50 **EWELINA GODEK**
(*Maria Curie-Skłodowska University in Lublin*)
COMPARISON OF THE INFLUENCE OF CATIONIC CELLULOSE ON STABILITY OF THE AQUEOUS SUSPENSIONS OF MONTMORILLONITE, HALLOYSITE AND BENTONITE
6. 10:50 – 11:00 **WOJCIECH GOLEDZINOWSKI**
(*University of Information Technology and Management in Rzeszów*)
NEW MEDIA TODAY. THE IMPACT OF ARTIFICIAL INTELLIGENCE ON COMMUNICATION
7. 11:00 – 11:10 **WERONIKA JABŁOŃSKA**
(*Warsaw University of Life Sciences*)
COMPARISON OF ANTIMICROBIAL PROPERTIES OF SINGLE TYPES OF NANOPARTICLES AND THEIR COMPLEXES AGAINST RARELY ISOLATED MASTITIS PATHOGENS OF *PROTOTHECA* SP. GENUS AND *KLUYVEROMYCES MARXIANUS*
8. 11:10 – 11:20 **MATEUSZ KOSYL**
(*INTUSEAL Sp. z o.o.*)
MATERIALS WITH INCREASED FIRE RESISTANCE USED IN IOT SYSTEMS WITH THE FUNCTION OF DETECTING VIOLATION OF THE INTEGRITY OF FIRE PROTECTION OF SERVICE PENETRATIONS
9. 11:20 – 11:30 **ANNA ŁAPETA**
(*Adam Mickiewicz University in Poznań*)
IN VITRO EVALUATION OF UV FILTER PERMEABILITY (*ENG*)
- 11:30 – 11:40 **Coffee Break**
10. 11:40 – 11:50 **KRZYSZTOF MARUSZEWSKI**
(*TYLDA Sp. z o.o.*)
ENERGY SAVING STRATEGIES IN TELEMATICS DEVICES



11. 11:50 – 12:00 **ADRIANNA MICHNIEWICZ**
(*University of Warmia and Mazury in Olsztyn*)
SUBCUTANEOUS TISSUE INFLAMMATION IN DOMESTIC ANIMALS: LITERATURE REVIEW AND CLINICAL CASE DESCRIPTION
12. 12:00 – 12:10 **ALEKSANDRA ORLEF**
(*Jagiellonian University*)
CHIROPTICAL SPECTROSCOPIES AS A METHOD TO STUDY ENCAPSULATION PROCESS OF ACTIVE COMPUND IN NANOPARTICLES (ENG)
13. 12:10 – 12:20 **NATALIA PIETRZKOWSKA**
(*Wroclaw University of Environmental and Life Sciences*)
APTAMER-BASED SOLUTION TO PREVENT THE DEVELOPMENT OF ACUTE KIDNEY INJURY IN DOGS INFECTED WITH BABESIA CANIS
14. 12:20 – 12:30 **LEON TABOR**
(*University of the Commission of National Education in Krakow*)
CRUCIAL ASPECTS IN DESIGNING FOR THE PEOPLE WITH VISUAL DISABILITIES
15. 12:30 – 12:40 **KAMIL ZAŁĘSKI**
(*University of Economics and Human Sciences in Warsaw*)
EVALUATING THE TRANSFORMATION OF WEB DEVELOPMENT PARADIGMS: CATALYSTS OF EFFICIENCY IN CLOUD ARCHITECTURES VIA SERVERLESS TECHNOLOGY INTEGRATION
16. 12:40 – 12:50 **ANNA ZDUBEK**
(*Wroclaw University of Science and Technology*)
THE USE OF METHYLENE BLUE IN THE PHOTODYNAMIC INACTIVATION O PROTEUS MIRABILIS (ENG)
17. 12:50 – 13:00 **JULIA ZIEMIŃSKA**
(*Medical University of Lublin*)
ANALYSIS OF POTENTIAL FACTORS INFLUENCING ON THE NUMBER OF NEW PERTUSSIS CASES IN POLAND

HUMANITIES SCIENCES SESSION

Presentations

1. **JERZY CHOJECKI**
(*The War Studies University*)
THE IMPACT OF GLOBALIZATION ON HUMAN RESOURCES MANAGEMENT IN THE TOURISM SECTOR (ENG)
2. **WERONIKA PRZYBOŚ**
(*University of Rzeszów*)
KUPAŁA NIGHT AT THE RZESZÓW REGION. BETWEEN THE TRADITION AND CONTEMPORANEITY

Posters

1. **KAMIL KULAS**
(*Poznan University of Economics and Business*)
GENERATION Z AND ENVIRONMENTAL AWARENESS – A REVIEW OF SECONDARY RESEARCH
2. **BRYGIDA STANEK**
(*Poznan University of Economics and Business*)
THE IDEA OF A CIRCULAR ECONOMY AND THE PHENOMENON OF GREENWASHING AS PERCEIVED BY CONSUMERS



MEDICAL SCIENCES SESSION

Presentations

1. **ANNA GLINKOWSKA**
(*Medical University of Silesia*)
FLAVONOIDS IN MEDICINE – A REVIEW OF SELECTED FLAVONOIDS IN THERAPIES
2. **TOMASZ KLAUDEL**
(*University of Opole*)
REVIEW OF THE LITERATURE – CURRENT STATE OF KNOWLEDGE ABOUT GAUCHER'S DISEASE
3. **KINGA KOGUT**
(*University of Rzeszów*)
HEALTH TOURISM OFFER IN RURAL AREAS IN THE PODKARPACKIE VOIVODESHIP
4. **ADRIANNA LIEDKE**
(*University of Rzeszów*)
UNUSUAL ACCOMMODATION FACILITIES AS A TOURIST ATTRACTION BASED ON SELECTED EXAMPLES FROM POLAND
5. **OLGA PAPRZYCKA**
(*Medical University of Silesia in Katowice*)
MICRORNAS IN UNDERSTANDING THE ETIOLOGY AND TREATMENT OF DEPRESSION
6. **MICHAŁ PELCZARSKI**
(*University of Opole*)
LITERATURE REVIEW, SUMMARY OF KNOWLEDGE ABOUT GUILLAIN-BARRÉ SYNDROME
7. **JAKUB SADOWSKI**
(*University of Opole*)
THE CURRENT STATE OF KNOWLEDGE ABOUT POMPE DISEASE – TYPE II GLYCOGENOSIS
8. **MICHAŁ SIKORSKI**
(*University of Opole*)
BRUGADA SYNDROME – DIAGNOSIS AND TREATMENT
9. **MAŁGORZATA STULIN**
(*University of Rzeszów*)
PHYSICAL RECREATION IN THE PREVENTION OF CIVILIZATION DISEASES – THE ROLE AND IMPORTANCE AMONG YOUTH FROM SECONDARY SCHOOLS IN RZESZÓW
10. **BARTOSZ TWAROWSKI**
(*Medical University of Lublin*)
THE ROLE OF OXIDATIVE STRESS IN ALZHEIMER'S DISEASE
11. **JAN WIECZOREK**
(*Medical University of Silesia*)
NEW DISCOVERIES IN METHODS OF EXAMINING AND THE SOURCES OF PRIONS

Posters

1. **MAŁGORZATA BELCZYK**
(*Jagiellonian University Medical College*)
EFFECT OF ATORVASTATIN AND CHOLESTEROL-ENRICHED DIET ON RENAL A-KETOGLUTARATE DEHYDROGENASE COMPLEX (A-KGDH) IN RATS (*ENG*)
2. **JOANNA BURZYŃSKA**
(*University of Rzeszów*)
HEALTH-RELATED SOCIAL MEDIA USE – ASSOCIATION WITH SOCIODEMOGRAPHIC VARIABLES AMONG ADULT USERS (*ENG*)



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3. **SABINA GALINIAK**
(Medical College of Rzeszow University)
 THE ROLE OF OXIDATIVE STRESS IN ATOPIC DERMATITIS
4. **MAGDALENA JANCZURA**
(Poznan University of Medical)
 ARE SGLT-2 INHIBITORS NEW HYPERTENSION DRUGS? (ENG)
5. **ADA KACZMAREK**
(Poznan University of Medical Sciences)
 OXIDATIVELY MODIFIED PROTEIN PRODUCTS AND LIPID PEROXIDATION PRODUCTS IN HYPERTENSIVE PATIENTS (ENG)
6. **ADA KACZMAREK**
(Poznan University of Medical Sciences)
 THE ROLE OF A FAMILY DOCTOR AND GYNECOLOGIST IN THE CARE OF A WOMAN (ENG)
7. **NATALIA KUBRYŃ**
(Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University)
 ASPIRIN REPOSITIONING
8. **MONIKA KUŚMIERZ-WOJTASIK**
(Pomeranian Medical University)
 COMPARATIVE ANALYSIS OF CORNEAL PARAMETERS IN SWEEP-SOURCE IMAGING BETWEEN DMEK AND UT-DSAEK EYES
9. **MICHAŁ MARKOWSKI**
(Medical University of Warsaw)
 USE OF BIOLUMINESCENT REPORTER SYSTEM IN CRISPR/CAS9 SILENCING COMPETITIVE CAFFEIC ACID BIOSYNTHETIC PATHWAYS IN NICOTIANA TABACUM PLANTS (ENG)
10. **KRZYSZTOF POCIECHA**
(Jagiellonian University, Medical College)
 MICROSOMAL HALF-LIFE AND INTRINSIC CLEARANCE OF NOVEL XANTHINE DERIVATIVES – PDE 4/7/8 INHIBITORS
11. **JANINA RZESZOT**
 THE IMPACT OF SURROUNDING CONDITIONS ON THE PATIENT IN HOME PHYSIOTHERAPY (ENG)

TECHNICAL AND NATURAL SCIENCES SESSION

Presentations

1. **JERZY DOROBISZ**
(Military Technical Academy Jarosław Dąbrowski)
 APPLICATION OF ARTIFICIAL INTELLIGENCE IN MILITARY APPLICATIONS
2. **JAKUB JARECKI**
(Maritime University of Szczecin)
 PSYCHOLOGY OF GAMES: RESEARCH ON THE IMPACT OF GAMES ON BEHAVIOR AND PLAYER DEVELOPMENT
3. **KORNEL KANIA**
(Sparkbit Labs sp. z o.o.)
 SPARKSENSE – SMART CAMERA FOR CONTEXTUAL DRIVING ASSESSMENT (ENG)
4. **VITALIY KOLOTYLO**
(Warsaw University of Life Sciences – SGGW)
 PRODUCTION OF MICROBIAL TRANSGLUTAMINASE IN A MEDIUM SUPPLEMENTED WITH CORN STEEP LIQUOR BY STREPTOVERTICILLIUM CINNAMONEUM



5. **PATRYK KORBAN**
(*AGH University of Science and Technology*)
COMPARISON OF INERT GAS REFINING PROCESS PARAMETERS ON COMPRESSIVE STRENGTH OF EN AN 44200 AND 46000 ALLOYS
6. **JULIA KORCZYK**
(*Jagiellonian University*)
COMPARATIVE ANALYSIS OF SLEEP IN SELECTED GROUPS OF ANIMALS
7. **ROBERT PACAN**
(*Cerrad Ltd.*)
DEVELOPMENT OF TECHNOLOGY FOR CERAMIC TILES WITH AN ANTIBACTERIAL NANO-AG BASED FUNCTIONAL COATING
8. **REGINA PRZYWARA**
(*Rzeszów University of Technology*)
RETENTION ANALYSIS OF TEST SUBSTANCES ON AN AMINE COLUMN (*ENG*)
9. **ANNA RYBKA**
(*Rzeszów University of Technology*)
POLYAMIDE RECYCLING
10. **ANNA RYBKA**
(*Rzeszów University of Technology*)
RAPID PROTOTYPING TECHNOLOGIES IN MEDICINE
11. **WIOLETTA SĘK**
(*Warsaw University of Life Sciences – SGGW*)
THE INFLUENCE OF INORGANIC SELENIUM ON THE PHYSIOLOGICAL ACTIVITY OF SACCHAROMYCES CEREVISIAE AND RHODOTORULA GLUTINIS YEAST CELLS
12. **HANNA SMOLEJ**
(*Maritime University of Szczecin*)
FUTURE OF MUSIC COMPOSING WITH THE USE OF AI TOOLS
13. **SZYMON SOBIERAJ**
(*Maritime University of Szczecin*)
APPLICATION OF ARTIFICIAL INTELLIGENCE IN COMPUTER GRAPHICS
14. **JAKUB SUŁKOWSKI**
(*Maritime University of Szczecin*)
HOW VIDEO GAMES MAKE OUR LIVES EASIER
15. **KAMIL SZOT**
(*Maritime University of Szczecin*)
ARTIFICIAL GENERAL INTELLIGENCE: HOW CLOSE ARE WE TO ACHIEVING THIS GOAL?
16. **RAFAL TOCZKO**
(*University of Siedlce*)
ECONOMIC AND HEALTH-PROMOTING IMPORTANCE OF OATS (*AVENA SATIVA*)

Posters

1. **PAWEŁ GŁOWACKI**
(*Maspex Group Sp. z o.o.*)
RESEARCH AND DEVELOPMENT ON THE CREATION OF HIGH-QUALITY EXTRUDED FUNCTIONAL FOOD BASED ON AN INNOVATIVE TECHNOLOGICAL PROCESS ENSURING AN INCREASE IN THE NUTRITIONAL VALUE OF OBTAINED PRODUCTS
2. **JOANNA KORZENIEWSKA**
(*University of Lodz*)
MICROSCOPIC AND ELECTROCHEMICAL CHARACTERIZATION OF SILVER NANOPARTICLES PHOTODEPOSITED ONTO ANATASE COATING (*ENG*)



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3. **PIOTR LEWKO**
(*PZZ Lubella GMW Sp. z o.o., University of Life Sciences in Lublin*)
ASSESSMENT OF THE TECHNOLOGICAL SUITABILITY OF SEMOLINA OBTAINED FROM POLISH DURUM WHEAT CROPS (ENG)
4. **SŁAWOMIR NAPIÓRKOWSKI**
(*Łukasiewicz Research Network - Institute of Heavy Organic Synthesis "Blachownia"*)
TECHNOLOGY OF OBTAINING BISPHENOL TMC MODIFIER OF INNOVATIVE POLYCARBONATES
5. **KATARZYNA NEJMAN**
(*Gdansk University of Technology*)
ASSESSMENT OF THE ABILITY OF CANDIDA SUBHASHII TO BIODEGRADE POLYOCTENAMER