



11 th edition

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

April 06, 2024

Conference Schedule

On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **LEON TABOR**
(University of the Commission of National Education in Krakow)
INCLUSIVE URBAN SPACES: DESIGNING FOR PEOPLE 60+ (ENG)
- 2 10:10 – 10:20 **GABRIELA CZAJA**
(Medical University of Lublin)
MOLECULAR DETECTION OF VIRULENCE GENES AMONG ENTEROCOCCUS FAECALIS STRAINS ISOLATED FROM URINARY TRACT INFECTIONS
- 3 10:20 – 10:30 **SEBASTIAN KANAK**
(Medical University of Lublin)
CHEMICAL COMPOSITION, ANTIOXIDANT AND ANTIBACTERIAL PROPERTIES OF THE AERIAL PARTS OF ALCHEMILLA SPECIOSA BUSER (ROSACEAE)
- 4 10:30 – 10:40 **AGNIESZKA KARABIN**
(Medical University of Lublin)
FETUIN A – A NOVEL MARKER OF METABOLIC DISEASES
- 5 10:40 – 10:50 **OLIWIĄ KWIATKOWSKA**
(The John Paul II Catholic University of Lublin)
MYCOLOGICAL SAFETY OF KOMBUCHA DRINK
- 6 10:50 – 11:00 **KATARZYNA ZYSKA**
(Medical University of Lublin)
CONTINUATION OF RUBELLA VACCINATION PROGRAM IN PREVENTION OF CONGENITAL INFECTION: A REVIEW OF THE CURRENT SITUATION
- 7 11:00 – 11:10 **PIOTR BRZESKI**
(Cutlery Solutions Michał Brzeski)
NOVEL METHODS FOR EVALUATING KNIFE PERFORMANCE
- 8 11:10 – 11:20 **EWELINA GODEK**
(Maria Curie-Skłodowska University in Lublin)
THE INFLUENCE OF KC AND CMC ON STABILITY OF THE AQUEOUS ILT SUSPENSIONS
- 11:20 – 11:40** *Coffee Break*
- 9 11:40 – 11:50 **MATEUSZ JAMROŻY**
(Cracow University of Technology)
MODERN SAPONIN-BASED BIOSURFACTANTS AS AN ALTERNATIVE TO THE CURRENTLY USED DETERGENTS
- 10 11:50 – 12:00 **KATARZYNA KISIEL**
(Rzeszów University of Technology)
INNOVATIVE APPROACHES FOR MODIFICATION OF NATURAL FIBERS THROUGH ATRP METHODS
- 11 12:00 – 12:10 **AGNIESZKA OKRÓJ**
(University of Gdańsk)
A STUDY OF QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIP (QSAR) FOR EC50 OF SULFONAMIDES



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- 12 12:10 – 12:20 **JOLANTA ROMANOWSKA**
(Rzeszów University of Technology)
MODIFIED ALUMINIDE COATINGS (ENG)
- 13 12:20 – 12:30 **MICHAŁ RYKACZEWSKI**
(Polskie Domy Drewniane S.A.)
STRUCTURAL OPTIMIZATION OF CROSS-LAMINATED TIMBER LAYERS WITH AIR VOIDS
TO INCREASE THERMAL INSULATION
- 14 12:30 – 12:40 **ŁUKASZ SROKA**
(University of Economics in Katowice)
FORECASTING THE VALUE OF TIME SERIES – COMPARATIVE ANALYSIS OF A SELECTED
MACHINE LEARNING ALGORITHM AND AN ARTIFICIAL NEURAL NETWORK MODEL
- 15 12:40 – 12:50 **MARCIN WILK**
(CADESIGNER ENGINEERING Sp. z o.o.)
IMPLEMENTATION OF RESEARCH AND DEVELOPMENT (R&D) PROJECTS FOR THE
AUTOMATION AND ROBOTIZATION OF PRODUCTION PROCESSES IN THE RAILWAY
SECTOR
- 16 12:50 – 13:00 **MARYANA ZAGULA-YAVORSKA**
(Rzeszów University of Technology)
ALUMINIDE COATINGS ON HOT PARTS OF AIRCRAFT ENGINES

HUMANITIES SCIENCES SESSION

Presentations

- 1 **TERESA BISAGA**
(University of Silesia)
HOW TO RECOGNIZE IF SCIENTIFIC FILMS TELL THE TRUTH?
- 2 **JOANNA CHRZĄSZCZ**
(State University of Jan Grodek in Sanok)
ECONOMIC PSYCHOLOGY – ADVERTISING AND ITS IMPACT ON SHOPPING
- 3 **KLAUDIA HOJKA**
(Poznań University of Technology)
THE IMPORTANCE OF EDUCATION AND PROFESSIONAL DEVELOPMENT IN THE SUCCESSION PROCESS
IN FAMILY BUSINESSES
- 4 **KATARZYNA JANKOWSKA**
(University of Warmia and Mazury)
UNDERSTANDING NARCISSISTIC PERSONALITY DISORDER – DIAGNOSIS, CHARACTERISTICS, AND
THERAPEUTIC APPROACHES
- 5 **KATARZYNA JANKOWSKA**
(University of Warmia and Mazury)
HOW DOES MOTIVATION AFFECT ACADEMIC ACHIEVEMENTS?
- 6 **DOROTA KONDRATOWICZ**
(SGH Warsaw School of Economics)
LEVERAGING DIGITAL MARKETING CHANNELS IN EMPLOYEE RECRUITMENT



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Posters

- 1 **MARIA CZUBAK**
(*The Maria Grzegorzewska University*)
IT'S OUR CHOICE – MODELS OF DEMOCRATIC EDUCATION
- 2 **MARIA CZUBAK**
(*The Maria Grzegorzewska University*)
CONSERVATISM TOWARDS DEMOCRATIC EDUCATION
- 3 **KAMIL KULAS**
(*Poznan University of Economics and Business*)
SUPPLIERS PROCESS MATURITY ANALYSIS IN THE AVIATION INDUSTRY

MEDICAL SCIENCES SESSION

Presentations

- 1 **KATARZYNA BAZYLEWICZ**
(*University Clinical Hospital no 1 Pomeranian Medical University Szczecin*)
SURGICAL TREATMENT OF HYDROCEPHALUS CAUSED BY STRUCTURAL MALFORMATION OF THE CEREBELLUM
- 2 **MONIKA DĄBROWSKA**
(*Medical College, Jagiellonian University*)
THE FATE OF DRUGS IN THE ENVIRONMENT (ENG)
- 3 **AGATA GRABOWSKA**
(*Medical University of Silesia in Katowice*)
THE ROLE OF SAGITTAL ALIGNMENT OF THE SPINE IN MAINTAINING STRUCTURAL AND FUNCTIONAL INTEGRITY (ENG)
- 4 **JOANNA HUK**
(*University of Opole*)
MEDICAL ROBOTICS IN GYNECOLOGY
- 5 **WOJCIECH P. JAKUBCZAK**
(*Medical University of Lublin*)
A GLOBAL OUTBREAK OF MPOX – CLINICAL CHARACTERIZATION AND CURRENT EPIDEMIOLOGICAL SITUATION
- 6 **KACPER KAZIMIERCZUK**
(*University of Opole*)
LITERATURE REVIEW – IS A TATTOO A RISK DURING CENTRAL ANESTHESIA?
- 7 **TOMASZ KLAUDEL**
(*University of Opole*)
LITERATURE REVIEW – CURRENT STATE OF KNOWLEDGE ABOUT WHIPPLE'S DISEASE
- 8 **EDYTA KUCHARSKA**
(*West Pomeranian University of Technology in Szczecin*)
BIOCOMPATIBLE AND BIODEGRADABLE NOVEL COSMETIC RAW MATERIALS FOR COSMETIC AND BIOMEDICAL APPLICATIONS (ENG)
- 9 **ZUZANNA MARGAS**
(*Gdańsk University of Technology*)
THE APPLICATION OF NITROGENOUS BASES AND NUCLEOSIDES IN DIETARY SUPPLEMENTS FOR ATHLETES
- 10 **WERONIKA NOWAK**
(*Rzeszow University of Technology im. Ignacy Łukasiewicz*)
COMMUNICATION MODELS OF THE DOCTOR-PATIENT-FAMILY RELATIONSHIP



- 11 **SAMANTA OSTROWSKA**
(*University of Opole*)
APPLICATION OF 3D PRINTING IN MEDICINE
- 12 **MICHAŁ PELCZARSKI**
(*University of Opole*)
LITERATURE REVIEW, SUMMARY OF THE CURRENT STATE OF KNOWLEDGE ABOUT OSTEOPOROSIS
- 13 **DAWID PIEKARSKI**
(*University of Opole*)
LITERATURE REVIEW, SUMMARY OF KNOWLEDGE ABOUT MUCOPOLYSACCHARIDOSIS TYPE 1
- 14 **JANINA RZESZOT**
INIURIES TEENAGE FOOTBOLLERS PREVENTION AND RETURN TO THE GAME (*ENG*)
- 15 **JAKUB SADOWSKI**
(*University of Opole*)
REVIEW OF THE LITERATURE. CEREBELLAR ATAXIAS INHERITED IN AN AUTOSOMAL RECESSIVE MANNER
- 16 **MICHAŁ SIKORSKI**
(*University of Opole*)
LITERATURE REVIEW – CURRENT STATE OF KNOWLEDGE ABOUT EISENMENGER SYNDROME
- 17 **DAMIAN SPYTEK**
(*Jan Kochanowski University in Kielce Collegium Medicum*)
METHODOLOGY OF CORRECTIVE GYMNASTICS FOR FLAT BACKS
- 18 **MAŁGORZATA STAREK**
(*Jagiellonian University Medical College*)
DIETARY SUPPLEMENTATION SUPPORTING THE TREATMENT OF DEPRESSIVE DISORDERS (*ENG*)
- 19 **KAROLINA TOMASIK**
(*University of Opole*)
LITERATURE REVIEW – CURRENT STATE OF KNOWLEDGE ABOUT HEMOCHROMATOSIS
- 20 **NATALIA WACEK**
(*Jan Kochanowski University in Kielce Collegium Medicum*)
METHODOLOGY OF CORRECTIVE GYMNASTICS FOR VARUS KNEES
- 21 **SZYMON WOLANIUK**
(*University of Opole*)
REVIEW OF THE LITERATURE – PAROXYSMAL NOCTURNAL HEMOGLOBINURIA
- 22 **MONIKA ZABORSKA**
(*University of Opole*)
CASE REPORT OF A 40-YEAR-OLD PATIENT WITH DEEP INFILTRATING ENDOMETRIOSIS (*DIE*)

Posters

- 1 **DOMINIK BIALEK**
(*Medical University of Lublin*)
IMPACT OF PHYSICAL ACTIVITY ON THE PREVENTION OF SCHIZOPHRENIA (*ENG*)
- 2 **ŻANETA BINERT-KUSZTAL**
(*Jagiellonian University Medical College*)
ACCUMULATION OF BISPHENOL A® IN MUSHROOMS OF THE GENUS PLEUROTUS SPP. (*ENG*)
- 3 **ŻANETA BINERT-KUSZTAL**
(*Jagiellonian University Medical College*)
THE GENIUS OF CEFIDEROCOL (*ENG*)
- 4 **MAŁGORZATA GORZEL**
(*Wincenty Pol Academy of Applied Sciences in Lublin*)
ART THERAPY AND ITS IMPORTANCE IN MEDICAL STUDIES



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- 5 **EDYTA KWIŁOSZ**
(*State University of Applied Sciences in Krosno*)
THERAPEUTIC AND CARE PROPERTIES OF PROPOLIS
- 6 **NATALIA MACIEJCZYK**
(*Maria Curie-Skłodowska University*)
THE ROLE OF THE MICROENVIRONMENT IN TUMOR ANGIOGENESIS: KEY FACTORS AND THERAPEUTIC PROSPECTS
- 7 **ILONA NOWAK**
(*Research and Implementation Centre Silesia LabMed, Medical University of Silesia in Katowice*)
NEW INSIGHTS INTO NEURODEGENERATIVE DISEASES: AMYOTROPHIC LATERAL SCLEROSIS AND MULTIPLE SCLEROSIS
- 8 **WERONIKA NOWAK**
(*Rzeszów University of Technology im. Ignacy Łukasiewicz*)
ANALYSIS OF WOMEN'S LEVEL OF AWARENESS REGARDING BREAST CANCER AND CERVICAL CANCER PREVENTION
- 9 **NATALIA OGAREK**
(*Medical University of Silesia*)
THE BILATERAL RELATIONSHIP BETWEEN THYROID AND RENAL DYSFUNCTION (ENG)
- 10 **MARLENA WAROWNA**
(*Wincenty Pol Academy of Applied Sciences in Lublin*)
USE OF MUD IN COSMETOLOGY
- 11 **ADRIANNA WITCZYŃSKA**
(*Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Torun*)
DRUG REPOSITIONING – NEW WAY OF USING OLD DRUGS (ENG)

TECHNICAL AND NATURAL SCIENCES SESSION

Presentations

- 1 **ANDRZEJ BARTCZAK**
(*Fabryka Maszyn Spożywczych „SPOMASZ“ PLESZEW S.A.*)
VACUUM EVAPORATOR FOR CAMEL MASS
- 2 **IGOR CUDNIK**
(*Poznań University of Technology*)
MATAN – THERMOMECHANICAL MATERIAL ANALYSIS PYTHON PACKAGE (ENG)
- 3 **ARKADIUSZ KAMPCZYK**
(*AGH University of Krakow*)
OPTIMISATION ALGORITHM FOR MONITORING METRO TRANSPORT TRACTION ELECTRICITY CONSUMPTION – ESSENCE IN RAILTOPOMODEL (ENG)
- 4 **HANNA KORNACKA**
NON-STEROIDAL ANTI-INFLAMMATORY DRUGS IN THE AQUATIC ENVIRONMENT: PHYTOREMEDIATION POSSIBILITIES
- 5 **ADRIANNA MICHNIEWICZ**
(*University of Warmia and Mazury*)
THE MOST COMMON POISONINGS IN PETS – REVIEW WORK
- 6 **NATALIA MIKOŁAJCZAK**
(*University of Warmia and Mazury in Olsztyn*)
THE EFFECT OF 4-VINYLGUAIACOL AND 4-VINYLSYRINGOL ON THE DEGRADATION OF BIOACTIVE COMPOUNDS IN PLANT BIO-OILS DURING STORAGE WITH EXPOSURE TO LIGHT (ENG)
- 7 **BRYGIDA STANEK**
(*Poznań University of Economics and Business*)
LOGISTICAL PROBLEMS IN THE STATE FIRE SERVICE DURING FIREFIGHTING OPERATIONS



Posters

- 1 **KAROL WIEK**
(*West Pomeranian University of Technology in Szczecin*)
INNOVATIVENESS OF THE 3D SCANNER PROJECT FOR CUSTOM ORTHOPEDIC INSOLES PRODUCTION
- 2 **DAMIAN FELKEL**
(*West Pomeranian University of Technology in Szczecin*)
USE OF MICROMETER SCREW TO ADJUST Z AXIS OFFSET IN 3D PRINTER
- 3 **KRYSTIAN GRZEKOWIAK**
(*West Pomeranian University of Technology in Szczecin*)
DESCRIPTION OF 3D PRINTER MODIFICATION INVOLVING THE USE OF A MICROMETER SCREW TO ADJUST THE Z AXIS OFFSET
- 4 **JAKUB JASIEJKO**
(*West Pomeranian University of Technology*)
SOLUTIONS APPLIED IN THE 3D SCANNER PROJECT FOR CUSTOM ORTHOPEDIC INSOLES
- 5 **JAKUB JASIEJKO**
(*West Pomeranian University of Technology*)
PERSPECTIVES OF DEVELOPMENT FOR A MICROMETRIC SCREW FOR OFFSET REGULATION IN A 3D PRINTER
- 6 **MARZENA KALISZEWSKA-KOZAK**
(*NanoSanguis S.A.*)
NEW ZEIN-BASED MATERIAL AS NANOSTRUCTURED DRUG DELIVERY SYSTEM (*ENG*)
- 7 **OSKAR KAMISKI**
(*Adam Mickiewicz University in Pozna*)
CALOGENESIS INDUCTION OF SALIX VIMINALIS FROM FLORAL AXIS
- 8 **BARTOSZ PLOTKA**
(*West Pomeranian University of Technology in Szczecin*)
DEVELOPMENT PERSPECTIVES OF THE INNOVATIVE 3D SCANNER PROJECT FOR ORTHOPEDICS
- 9 **MACIEJ RAJTAR**
(*University of Life Sciences in Lublin*)
AVAILABLE ANTIFUNGAL TREATMENTS FOR CANDIDA AURIS INFECTIONS (*ENG*)
- 10 **NATALIA ROGOSCH**
(*Wroclaw University of Environmental and Life Sciences*)
THE ROLE OF SHBG PROTEIN IN THE REGULATION OF THE MULTIPOTENCY OF EQUINE STEM CELLS
- 11 **PAWE SIKORA**
(*Opole University of Technology*)
ONLINE EDUCATION: DEVELOPMENT OF E-LEARNING PLATFORMS AND EFFECTIVENESS OF REMOTE LEARNING
- 12 **KACPER SIWIAK**
(*University of Life Sciences in Lublin*)
GEOGRAPHICAL DISTRIBUTION AND PREVALENCE OF CANDIDA AURIS (*ENG*)
- 13 **SZYMON STRAWA**
(*The John Paul II Catholic University of Lublin*)
IDENTIFICATION OF BACTERIA ISOLATED FROM BIOAEROSOLS COLLECTED FROM PUBLIC PLAYGROUNDS IN LUBLIN (*ENG*)
- 14 **WIKTORIA SUROWA**
(*Opole University of Technology*)
SOFTWARE DEVELOPMENT BASED ON AGILE METHODOLOGY



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- 15 **AMELIA SZCZEPAŃSKA**
(*Maria Curie-Skłodowska University*)
ASTAXSANTHIN IN THE COSMETOLOGY INDUSTRY
- 16 **MICHAŁ SZKOP**
(*NanoSanguis S.A.*)
POLYMER BASED COATINGS FOR POLYCARBONATE NANOPOROUS MEMBRANES (ENG)
- 17 **ALICJA SZOT**
(*University of Life Sciences in Lublin*)
OVERVIEW OF CANDIDA AURIS, ITS DISCOVERY AND CLASSIFICATION (ENG)
- 18 **BETINA WĄSIK**
(*Łukasiewicz Research Network, Institute of Heavy Organic Synthesis "Blachownia"*)
RECOVERY OF GLYCOLIC ACID FROM BRINE WASTEWATER BY ADSORPTION
- 19 **PATRYCJA WRÓŃSKA**
(*University of Life Sciences in Lublin*)
SYMPTOMS AND CLINICAL PRESENTATIONS OF CANDIDA AURIS INFECTIONS (ENG)
- 20 **KAMILA ZABOROWSKA**
(*AGH University of Krakow*)
HYDROGENATION OF SUGARS TO SUGAR ALCOHOLS OVER HETEROGENEOUS CATALYSTS
AS A PROMISING WAY OF TREATING LIGNOCELLULOSIC BIOMASS (ENG)
- 21 **KAROLINA ZIĘBA-KULAWIK**
(*Luxembourg Institute of Socio-Economic Research (LISER)*)
EXTENDED REAL ESTATE OFFER CLASSIFICATION USING LARGE LANGUAGE MODEL TO QUANTIFY
PROPERTY FEATURES FROM DESCRIPTION (ENG)