



5th edition
National Scientific Conference
"e-FACTORY OF SCIENCE"
April 10, 2021

Conference Schedule

HUMANITIES SCIENCES SESSION

On-line Presentations

- 09:50 – 10:00 **Opening the Conference and discussing technical cases**
- 1 10:00 – 10:10 **Magdalena Brzozowicz** (*University of Warsaw*)
THE INFLUENCE OF FRAMING EFFECT ON THE WILLINGNESS TO PAY FOR CONSUMPTION GOODS IN REALISTIC SHOPPING SETTINGS (ENG)
- 2 10:10 – 10:20 **Klaudia Koralewska** (*University of Warmia and Mazury*)
EFFECT OF THE CHANGE OF CIRCUMSTANCES ON THE OBLIGATION
- 3 10:20 – 10:30 **Małgorzata Osowska** (*Educational Research Institute*)
"OUR ROLE IS TO PROVIDE KNOWLEDGE AND OUR EMPLOYEES TO TRANSFORM IT INTO INNOVATIVE SOLUTIONS." HOW DO THE ORGANIZATION'S PERSONNEL POLICIES AFFECT THEIR INNOVATION?
- 4 10:30 – 10:40 **Kinga Starnowska** (*University of Lodz, Branch in Tomaszow Mazowiecki*)
THE OCCURRENCE AND COURSE OF ANXIETY DISORDERS IN PEOPLE WHO HAVE LOST THEIR FINANCIAL CONTINUITY UNDER THE INFLUENCE OF THE COVID-19 PANDEMIC IN POLAND
- 5 10:40 – 10:50 **Gabriela Zdraż** (*University of Lodz, Branch in Tomaszow Mazowiecki*)
RESEARCHING SOCIAL ATTITUDES TOWARDS WILD ANIMALS EXISTING IN POLAND

Presentations

- 1 **Joanna Błoch** (*University of Wrocław*)
AUGUSTUS PFEIFFER'S TIES WITH SILESIA AND MORE
- 2 **Artur Borowiecki** (*University of Lodz*)
THE PROCESS OF SHAPING THE DRAMATIC STRUCTURE (STORY ARC) IN A FILM NARRATIVE
- 3 **Beata Duda** (*University of Silesia in Katowice*)
COVID-19 PANDEMIC DISCOURSE(S), PANDEMIC IN DISCOURSE. RESEARCH PROJECT PRESENTATION (ENG)
- 4 **Zofia Gralak** (*University of Lodz*)
HAPPINESS, HARD WORK AND TALENT - HOW TO BECOME AN ARTIST IN TANZANIA. THE CASE OF GEORGE LILANGA (ENG)
- 5 **Natalia Jeżewska** (*University of Silesia in Katowice*)
CREATIVE POSTURE CHILD'S IN KINDERGARTEN
- 6 **Damian Kalisiak** (*Cardinal Stefan Wyszyński University in Warsaw*)
POLISH CONSTRUCTION LAW
- 7 **Urszula Kulikowska** (*University of Białystok*)
STRESS IN THE EDUCATIONAL CONTEXT
- 8 **Kinga Majcher** (*University of Economics and Innovation in Lublin*)
LOCAL SECURITY ON THE CONTEMPORARY WORLD
- 9 **Michał Mrozek** (*University of Szczecin*)
POVERTY AND SOCIAL EXCLUSION IN THE SELECTED CENTRAL EUROPEAN COUNTRIES IN 2016-2019 – THE CHOSEN ISSUES (ENG)
- 10 **Dominika Pawlina** (*Operation Manager of International Leaders Forum Foundation*)
ILLEGAL TRADE OF ANCIENT MESOPOTAMIAN ARTEFACTS FROM SYRIA AND IRAQ BY THE ISLAMIC STATE (ENG)

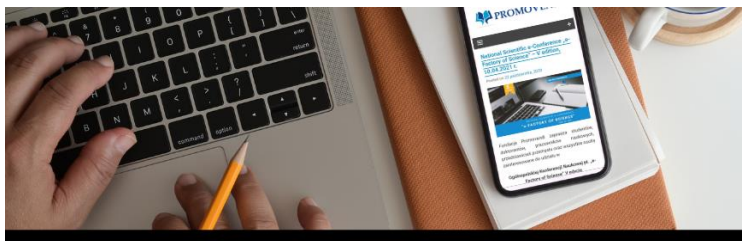


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- 11 **Przemysław Mirosław Pazder** (*Pomeranian University of Slupsk*)
THE STATE OF THE FAMINE IN UKRAINE IN 1932-1933 – CAUSES AND EFFECTS
- 12 **Przemysław Mirosław Pazder** (*Pomorianian University in Slupsk*)
POLISH MINORITY IN THE USSR DURING THE HOLODOMOR PERIOD IN POLISH HISTORIOGRAPHY
- 13 **Kacper Pelczarski**
DEVELOPMENT OF VIEWS ON THE DIET OF HOMO NEANDERTHALENSIS AND HOMO SAPIENS
IN THE MIDDLE PALEOLITHIC
- 14 **Justyna Pierewoj** (*University of Bialystok*)
SELECTED CURRENT PROBLEMS OF THE PHARMACEUTICAL MARKET – LEGAL AND PRACTICAL
ASPECTS (ENG)
- 15 **Kamil Rezmer** (*University of Science and Technology*)
QUALITY MANAGEMENT – SELECTED CONCEPTS
- 16 **Mateusz Ruszaj** (*Jagiellonian University*)
MAP DESCRIPTIONS FOR BLIND PEOPLE (ENG)
- 17 **Monika Strzelecka** (*Catholic University of Lublin*)
THE IMPACT OF TELLING ABOUT YOUR LIFE ON MAKING SENSE OF IT
- 18 **Daniel Tabiś** (*University of Applied Sciences in Tarnow*)
EDUCATIONAL LAW IN THE REPUBLIC OF POLAND
- 19 **Arkadiusz Trela** (*WSB University in Dąbrowa Górnicza*)
ROLE OF INTERNATIONAL QUALITY MANAGEMENT SYSTEMS IN THE MEDICAL TOURISM MARKET
(ENG)
- 20 **Julia Ukleja** (*University of Warmia and Mazury in Olsztyn*)
THE ROLE OF HOMEWORK IN THE EDUCATION OF CHILDREN AT EARLY SCHOOL
- 21 **Iwona Wilczek** (*Academy of Fine Arts in Katowice*)
ARS HOMO EROTICA IN CONTEMPORARY POLISH PHOTOGRAPHY
- 22 **Daria Wrukowska** (*New Generation MK*)
EDUCATING ELDERLY PEOPLE IN THE USE OF MOBILE TECHNOLOGIES
- 23 **Waleria Zachwatowicz** (*University of Warmia and Mazury*)
ANALYSIS OF THE IMPACT OF USING SOCIAL MEDIA FOR SELF-ESTEEM
- 24 **Maja Zielińska** (*The Maria Grzegorzewska University in Warsaw*)
SCHOOL DIFFICULTIES OF STUDENTS WITH UNINHIBITED PRIMARY REFLEXES (ENG)

Posters

- 1 **Sabina Barszcz** (*University of Wrocław*)
LIFE ATTITUDE VS BELIEFS ABOUT HUMAN NATURE AND RELIGIOUS ORIENTATION
- 2 **Katarzyna Chojnacka** (*The Maria Grzegorzewska University in Warsaw*)
THE AWARENESS OF SUSTAINABLE DEVELOPMENT IN KINDERGARTEN TEACHERS AND TEACHERS
IN GRADES 1-3 OF PRIMARY SCHOOLS
- 3 **Magdalena Cybulska** (*University of Warsaw*)
DEINDUSTRIALIZATION AND INVESTMENT ATTRACTIVENESS
- 4 **Maria Czubak** (*The Maria Grzegorzewska University in Warsaw*)
SUPPORTING INTERESTS OF CUB SCOUTS IN POLAND
- 5 **Dominika Janik-Lis** (*The John Paul II Catholic University of Lublin*)
COACHING AND ITS ROLE IN BUILDING SOCIAL COMPETENCE
- 6 **Natalia Jeżewska** (*University of Silesia in Katowice*)
PRESENTATION OF CULTURALLY DIFFERENT PEOPLE AND PEOPLE WITH DISABILITIES
IN INTERCULTURAL AND INCLUSIVE TEXTS INTERSEMIOTICALLY TRANSLATION IN WORKING
WITH CHILDREN IN KINDERGARTEN



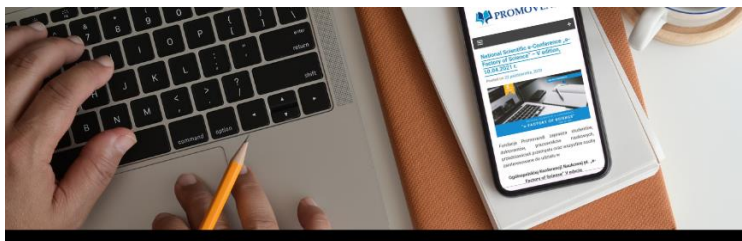
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- 7 **Katarzyna Krupa** (*The Maria Grzegorzewska University in Warsaw*)
KNOWLEDGE OF PEDAGOGICAL STUDENTS AND TEACHERS OF PRESCHOOL AND EARLY CHILDHOOD EDUCATION ABOUT EDUCATION FOR SUSTAINABLE DEVELOPMENT
- 8 **Angelika Lenart** (*John Paul II Catholic University of Lublin*)
BEHAVIORAL AND PERSONALITY DISORDERS
- 9 **Agata Niezabitowska** (*University of Wrocław*)
LEVEL OF SELF-CONTROL AND THE INTENSITY OF SMOKING MOTIVES
- 10 **Bartłomiej Pawlak** (*University of Łódź*)
STACK OVERFLOW TAG PREDICTION USING MACHINE LEARNING (ENG)
- 11 **Zuzanna Porębowicz** (*The Maria Grzegorzewska University in Warsaw*)
MONTESSORI EDUCATION DURING LOCKDOWN CAUSED BY THE COVID-19 PANDEMIC – IS IT POSSIBLE? EXPERIENCES OF TEACHERS FROM DOMOWY OŚRODEK MONTESSORI DOM
- 12 **Weronika Wojcieszek** (*The Maria Grzegorzewska University in Warsaw*)
SUSTAINABLE DEVELOPMENT AS ASSESSED BY STUDENTS OF PEDAGOGICAL AND TECHNICAL UNIVERSITIES
- 13 **Sylwia Zaroślak** (*The Maria Grzegorzewska University in Warsaw*)
FOREST EDUCATION OF PRESCHOOL CHILDREN AS AN ELEMENT OF EDUCATION FOR SUSTAINABLE DEVELOPMENT
- 14 **Anna Zarzycka** (*Catholic University of Lublin*)
PREFIGURATIVE CULTURE TOWARDS GLOBALIZATION PROCESSES

MEDICAL SCIENCES SESSION

On-line Presentations

- 1 11:00 – 11:10 **Elżbieta Wilczyńska, Karolina Babiarz** (*University of Rzeszów*)
PHYSICAL ACTIVITY OF ADOLESCENTS AGED 12-14 ON THE EXAMPLE OF STUDENTS FROM THE SCHOOL AND KINDERGARTEN COMPLEX NO. 9 IN RZESZÓW
- 2 11:10 – 11:20 **Magdalena Dul** (*Rzeszow University of Technology*)
DEBUNKING MYTHS ABOUT THE IMPACT OF HIGH PROTEIN DIETS ON BONES DENSITY AND KIDNEY HEALTH
- 3 11:20 – 11:30 **Izabela Gura** (*Medical University of Lublin*)
THE MEANING OF ENTEROBIUS VERMICULARIS INFECTION IN APPENDICITIS ETIOLOGY
- 4 11:30 – 11:40 **Alicja Mińko, Zuzanna Hilicka** (*Pomeranian Medical University in Szczecin*)
MULTIFACTOR ANALYSIS OF LIFE QUALITY OF ENDOMETRIOSIS PATIENTS
- 5 11:40 – 11:50 **Barbara Janota** (*Medical University of Silesia in Katowice*)
THE FREQUENCY OF CHOSEN FOOD PRODUCTS INTAKE AMONGST POLISH AND TURKISH STUDENTS OF VARYING BODY MASS, BEFORE AND DURING THE COVID-19 PANDEMIC
- 6 11:50 – 12:00 **Jakub Laskowski** (*Medical University of Lublin*)
THE POSSIBILITY OF COMPLETE REMISSION IN AN INOPERABLE TUMOR – A NEUROBLASTOMA CASE REPORT
- 7 12:00 – 12:10 **Bartosz Sobocki** (*Medical University of Gdańsk*)
THE IMPACT OF TREHALOSE ON INTRACELLULAR AND EXTRACELLULAR NUCLEOTIDE METABOLISM IN BREAST CANCER AND ENDOTHELIAL CELLS
- 8 12:10 – 12:20 **Małgorzata Waclawik** (*Medical University of Gdańsk*)
SILICONE WRISTBANDS – AN EMERGING TOOL IN HUMAN EXPOSURE ASSESSMENT STUDIES (ENG)



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Presentations

- 1 **Patrycja Bargiel** (*Pomeranian Medical University of Szczecin*)
OCCURRENCE OF DIASTASIS RECTI ABDOMINIS IN WOMEN IN LABOUR DEPENDING ON NUMBER OF PREGNANCIES AND ASSESSMENT OF FREQUENCY AND TYPE OF PHYSICAL ACTIVITY
- 2 **Marlena Budek** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz Nicolaus Copernicus University in Toruń*)
INFLUENCE OF OBESITY ON THE DEVELOPMENT OF GASTROENTEROPANCREATIC NEUROENDOCRINE TUMORS
- 3 **Marlena Budek** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz Nicolaus Copernicus University in Toruń*)
ISOTOPE DIAGNOSTICS OF NEUROENDOCRINE TUMORS WITH THE USE OF RADIOLABELLED SOMATOSTATIN ANALOGUES
- 4 **Dominik Dudek** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz Nicolaus Copernicus University in Toruń*)
COPEPTIN – NEWLY DISCOVERED MARKER OF CARDIOVASCULAR DISEASES
- 5 **Weronika Dudzińska** (*High School – King Sigismund Augustus in Białystok*)
CURCUMIN: CAN IT SLOW CANCER GROWTH?
- 6 **Weronika Fałęcka** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz Nicolaus Copernicus University in Toruń*)
VITAMIN D AND ITS ROLE IN PARKINSON'S DISEASE
- 7 **Dawid Gawęł** (*Jerzy Kukuczka Academy of Physical Education in Katowice*)
ACUTE IMPACT OF BLOOD FLOW RESTRICTION ON STRENGTH-ENDURANCE PERFORMANCE DURING RESISTANCE EXERCISE
- 8 **Justyna Jandernal** (*Regional Specialist Hospital Dr. Władysław Biegański in Grudziądz*)
TREATMENT OF PATIENTS DIAGNOSED WITH GASTRIC CANCER IN THE LIGHT OF CURRENT GUIDELINES
- 9 **Dorian Jarek** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń*)
ROLE OF MITOCHONDRIAL DYSFUNCTIONS IN DEVELOPMENT AND COURSE OF ALZHEIMER'S DISEASE
- 10 **Natalia Kielich** (*Adam Mickiewicz University in Poznan*)
HOW CRISPR/CAS9 COULD CURE LEUKEMIA? (ENG)
- 11 **Natalia Kielich** (*Adam Mickiewicz University in Poznan*)
ONCOGENIC VIRUSES AND HEPATOCELLULAR CARCINOMA
- 12 **Kamil Klimas** (*Wroclaw Medical University*)
COELIAC DISEASE – DIAGNOSIS, TREATMENT AND COMPLICATIONS
- 13 **Małgorzata Korzeniowska** (*Wroclaw Medical University*)
AN OVERVIEW AND MANAGEMENT OF OSTEOPOROSIS – PATHOGENESIS, RISK FACTORS, CLINICAL MANIFESTATIONS, DIAGNOSIS AND TREATMENT (ENG)
- 14 **Anna Kubica-Cielińska** (*Wroclaw Medical University*)
POSTOPERATIVE PAIN MANAGEMENT IN CHILDREN
- 15 **Szymon Kufel** (*Regional Specialist Hospital named after Władysław Biegański in Grudziądz*)
THE USE OF COGNITIVE BEHAVIORAL THERAPY METHODS IN THE TREATMENT OF CANCER PAIN
- 16 **Jan Milanowski** (*Ludwik Rydygier Collegium Medicum in Bydgoszcz Nicolaus Copernicus University in Toruń*)
THE ROLE OF SELECTED PRO-INFLAMMATORY CYTOKINES IN HYPERTENSION AND PULMONARY ARTERIAL HYPERTENSION
- 17 **Marina Milona** (*Pomeranian Medical University*)
CONTEMPORARY METHODS BICUSPID AORTIC VALVE REPAIR
- 18 **Alicja Mińko** (*Pomeranian Medical University in Szczecin*)
ASSESSMENT OF THE TOLERANCE EFFORT IN PATIENTS AFTER CARDIAC SURGERY WITH TYPE 2 DIABETES AND ELEVATED LEVEL OF GLYCOSYLATED HAEMOGLOBIN (HBA1C)
- 19 **Paweł Myśliborski-Wołowski** (*Department of Clinical Oncology in Grudziądz*)
PRINCIPLES OF PAIN TREATMENT IN ONCOLOGICAL PATIENTS



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- 20 **Kacper Niewęglowski** (*Medical University of Lublin*)
APPLICATION OF ARTIFICIAL INTELLIGENCE (AI) TO DIAGNOSIS OF COVID-19
- 21 **Kacper Niewęglowski** (*Medical University of Lublin*)
POTENTIAL IMPACT OF GUT MICROBIOTA IN THE DEVELOPMENT OF OBESITY
- 22 **Bartosz Omasta** (*Kazimierz Pułaski University of Technology and Humanities in Radom*)
WHAT DO WE KNOW ABOUT SARS-COV-2?
- 23 **Mariusz Rogucki** (*Medical University of Białystok*)
COULD MICRORNA BE A BIOMARKER FOR PAPILLARY THYROID CANCER?
- 24 **Weronika Rokicka** (*Pomeranian Medical University in Szczecin*)
AWARENESS OF THE PELVIC FLOOR MUSCLES WITH SPORT-PERFORMING WOMEN
- 25 **Hubert Rola** (*Pomeranian Medical University*)
TO CURE THE INCURABLE – CRIP-R
- 26 **Marcin Setlak** (*Medical University of Silesia*)
POSSIBILITIES OF NEUROSURGICAL TREATMENT OF BASILAR ARTERY ANEURYSMS – REVIEW OF THE CURRENT STATE OF KNOWLEDGE (ENG)
- 27 **Monika Stefaniak** (*Mieszko I School of Pedagogy and Administration in Poznan*)
QUALITY OF LIFE AND PHYSICAL ACTIVITY OF PEOPLE OVER 60 YEARS OF AGE IN THE ERA OF COVID-19
- 28 **Agnieszka Świącicka-Klama** (*Wrocław Medical University*)
METABOLIC SYNDROME AS A GROWING PROBLEM
- 29 **Natalia Wilczek** (*Medical University of Lublin*)
POTENTIAL ASSOCIATION OF SUBACUTE THYROIDITIS WITH SARS-COV- 2 INFECTION – REVIEW
- 30 **Miłosz Marek Zbucki** (*High School – King Sigismund Augustus in Białystok*)
CHANGES IN THE SURFACE CHARGE OF LIPID VESICLE UNDER THE INFLUENCE OF ROSMARINIC ACID
- 31 **Ewa Ziółkowska** (*The President Stanisław Wojciechowski Calisia University*)
FUTURE DIRECTIONS OF NURSING RESEARCH
- 32 **Anna Zwierzyńska** (*Jan Kochanowski University in Kielce*)
CONTRACEPTION THEN AND NOW
- 33 **Aleksandra Żmuda** (*Pomeranian Medical University in Szczecin*)
THE FEAR OF PREGNANT WOMEN ABOUT TAKING UP PHYSICAL ACTIVITY IN THE COVID-19 PANDEMIC

Posters

- 1 **Michał Bystram** (*Medical University of Gdańsk*)
TEMPORARY CROWNS – AN INDIRECT METHOD WITH USING ACRYLIC RESIN WITH RAPID POLYMERISATION
- 2 **Magdalena Dzikowiec** (*Medical University of Lodz*)
THE ROLE OF HELICOBACTER PYLORI AND EPSTEIN-BARR VIRUS IN GASTRIC DYSBIOSIS AND GASTRIC CARCINOGENESIS (ENG)
- 3 **Barbara Kosior** (*Medical University of Gdansk*)
TEMPORARY CROWNS: MANUFACTURING IN CAD/CAM TECHNOLOGY
- 4 **Julia Nowicka** (*Medical University of Gdańsk*)
TEMPORARY CROWN – AN INDIRECT METHOD USING THERMOSETTING ACRYLIC MATERIAL
- 5 **Marlena Owczorz** (*Medical University of Silesia*)
THE USE OF CLAS AND HYDROGELS IN DRUG RELEASE (ENG)



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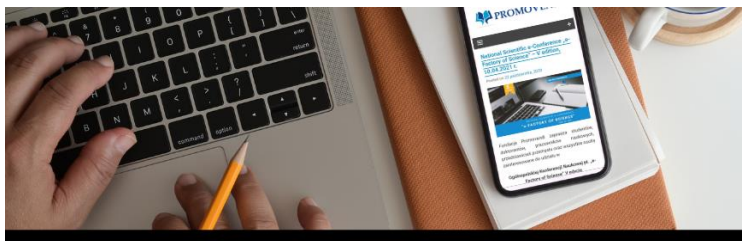
TECHNICAL SCIENCES SESSION

On-line Presentations

- 1 12:30 – 12:40 **Karolina Beton** (*Lodz University of Technology*)
BIOCHEMICAL AND NANOMECHANICAL ANALYSIS OF NORMAL AND CANCER CELLS OF THE HUMAN GASTROINTESTINAL TRACT EXPOSED TO ROS BY RAMAN IMAGING AND AFM (ENG)
- 2 12:40 – 12:50 **Dominik Böhm** (*University of Szczecin*)
THE APPLICABILITY OF DISTILLATION AS AN ALTERNATIVE IN NUCLEAR REPROCESSING (ENG)
- 3 12:50 – 13:00 **Marta Gawel** (*University of Łódź*)
COULD SALIVA BECOME THE GOLD STANDARD IN CLINICAL TRIALS?
- 4 13:00 – 13:10 **Ewelina Jach** (*Wrocław University of Science and Technology*)
PHASE TRANSITION AND PHYSICAL PROPERTIES OF DABCOKCL ORGANIC-INORGANIC HYBRID COMPOUND
- 5 13:10 – 13:20 **Anna Kawka** (*Adam Mickiewicz University in Poznan*)
SYNTHESIS OF NEW QUATERNARY ALKYLAMMONIUM SALTS OF BILE ACID DERIVATIVES
- 6 13:20 – 13:30 **Aleksandra Pierwoła** (*AGH University of Science and Technology*)
NUMERICAL OPTIMIZATION OF GRAVITY CASTING PROCESS FOR FORGED BLANKS MADE OF ALUMINUM ALLOY (ENG)

Presentations

- 1 **Weronika Bałdys** (*Lodz University of Technology*)
CELLULOSIC ETHANOL AS SECOND GENERATION BIOFUEL
- 2 **Wojciech Bańkosz** (*Cracow University of Technology*)
METHODOLOGY FOR MEASURING SEDIMENTATION RATES IN MR LIQUIDS
- 3 **Natalia Berdzik** (*Adam Mickiewicz University in Poznan*)
BIOLOGICAL ACTIVITY OF NEW INDOLE DERIVATIVES
- 4 **Adrianna Bigaj** (*AGH University of Science and Technology*)
PRELIMINARY RESEARCH OF THE RELATIONSHIP BETWEEN THE PARAMETERS OF CZECH LIGNITE AND THE MERCURY CONTAINED IN THEM
- 5 **Mateusz Boczar** (*FIS Technology Services*)
BOUNDARIES OF ARTIFICIAL INTELLIGENCE (ENG)
- 6 **Izabela Cimocho** (*University of Bialystok*)
CAPACITANCE PROPERTIES OF MESOPOROUS CARBON AND C60PD POLYMER COMPOSITE
- 7 **Karolina Dąbrowska** (*Maria Curie-Skłodowska University*)
MOLECULAR DYNAMICS STUDY OF THE STRUCTURE OF MONOLAYERS INVOLVING JANUS AND SPHERICAL PARTICLES
- 8 **Kamil Dędek** (*Lodz University of Technology*)
HEALTH-PROMOTING PROPERTIES OF FERULIC ACID AND ITS USE TO INCREASE THE BIOACTIVE POTENTIAL OF STARCH
- 9 **Ilona Dziobek** (*Military University of Technology*)
TESTING THE RESISTANCE TO OXIDATION OF DIESEL FUELS
- 10 **Tomasz Filipiuk** (*Military University of Technology*)
OVERVIEW OF SELECTED PRODUCTION METHODS AND HYDROGEN STORAGE



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- 11 **Piotr Głąb** (*Hutchinson Poland*)
INFLUENCE OF VULCANISATION STATE OF EPDM RUBBER ON BLOOMING – OPTIMISATION OF INJECTION MOULDING PROCESS FOR VISUAL ASPECTS OF COATED RUBBER PARTS
- 12 **Damian Jagleniec** (*University of Warsaw*)
TRIPODAL SQUARAMIDE-BASED HETERODITOPIC ION PAIR RECEPTOR TO EFFECTIVE EXTRACTING INORGANIC SALTS
- 13 **Milena Kaczmarska** (*Lodz University of Technology*)
INTERACTIONS OF THE INGREDIENTS OF THE SELECTED DAIRY INDUSTRY PRODUCT WITH POLYPHENOLIC PREPARATIONS AND THEIR INFLUENCE ON THE ANTIOXIDANT POTENTIAL OF THE ENRICHED PRODUCT
- 14 **Zdzisław Kinart** (*University of Lodz*)
CONDUCTANCE STUDIES OF SODIUM SALTS OF SELECTED DICARBOXYLIC ACIDS IN WATER AT TEMPERATURES OF 283.15K TO 313.15K.
- 15 **Denis Kopiec** (*Wrocław University of Science and Technology*)
LITHIUM-AIR CELLS – TECHNOLOGICAL LIMITATIONS THAT HAMPER POTENTIAL
- 16 **Paulina Laszuk** (*University in Białystok*)
INVESTIGATION OF THE EFFECT OF KAEMPFEROL AND MYRICETIN ON THE PROPERTIES OF BIOLOGICAL MEMBRANES
- 17 **Piotr Madura** (*Q Media Renata Adamczyk*)
INTERDISCIPLINARITY AS A KEY TO SUCCESS IN DESIGNING HIGH-CLASS PHOTOGRAPHIC AND CINEMA LENSES ON THE EXAMPLE OF IRIX LENSES BRAND
- 18 **Jacek Marcinkowski** (*Unisystem Sp. z o.o.*)
SMART INDOOR NAVIGATION SYSTEM: INCREDISCOPE
- 19 **Patrycja Nogas** (*Military University of Technology*)
METHODS OF PRODUCTION SECOND GENERATION BIOFUELS
- 20 **Agnieszka Ochalek** (*AGH University of Science and Technology*)
HANDHELD 3D LASER SCANNER IN UNDERGROUND HERITAGE DOCUMENTATION
- 21 **Dominika Olchówka** (*Wrocław University of Science and Technology*)
THE OPTIMAL MEASUREMENT PARAMETERS FOR THE DIAGBELT MAGNETIC SYSTEM ON THE TEST CONVEYOR
- 22 **Karol Wydra** (*University of Wrocław*)
POLYNUCLEAR COBALT(II) COMPLEXES OF HOMOCHIRAL 3+3 MACROCYCLE (ENG)
- 23 **Marta Zaleskaya** (*University of Warsaw*)
SELECTIVE RECOGNITION OF SULFATES USING MACROCYCLIC, SQUARAMIDE BASED ION PAIR RECEPTORS AND SENSORS

Posters

- 1 **Karolina Babijczuk** (*Adam Mickiewicz University*)
STRUCTURAL, SPECTROSCOPIC AND THEORETICAL STUDIES OF ADDUCT OF PYRIDOXINE WITH SQUARIC ACID AND WATER (ENG)
- 2 **Agata Baran** (*Military University of Technology*)
MAGNESIUM – ALTERNATIVE POWER SOURCE (ENG)
- 3 **Wojciech Bańkosz** (*Cracow University of Technology*)
LABORATORY TEST RIG FOR THE ANALYSIS OF THE SEDIMENTATION PROCESS OF FERROMAGNETIC PARTICLES
- 4 **Katarzyna Bethke** (*University of Gdańsk*)
DAPHNIA MAGNA AS VERSATILE TEST ORGANISM IN ECOTOXICOLOGICAL STUDIES
- 5 **Dominika Gołaszewska** (*University of Gdańsk*)
ALKALOIDS – DEADLY POISONS OR LIFE-SAVING MEDICINAL POTENTIAL?



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- 6 **Joanna Grelska** (*Silesian University of Technology*)
SUPRAMOLECULAR STRUCTURES INTERACTING THROUGH HYDROGEN BONDS AND VAN DER WAALS FORCES
- 7 **Maciej Jędraszak** (*Adam Mickiewicz University*)
CALCULATIONS OF THE BORN-OPPENHEIMER POTENTIAL FOR HELIUM HYDRIDE CATION (ENG)
- 8 **Maciej Jędraszak** (*Adam Mickiewicz University*)
SPECTROSCOPIC AND STRUCTURAL STUDIES OF MONOBETAINE 1,3-BIS(3-HYDROXYPYRIDINIUM)PROPANE BROMIDE (ENG)
- 9 **Martyna Jurkiewicz** (*West Pomeranian University of Technology*)
THE INFLUENCE OF ACTIVATED CARBON IMPREGNATION ON THE ADSORPTION OF VOCS FROM THE GAS PHASE (ENG)
- 10 **Kamil Kołtało** (*Silesian University of Technology*)
INFLUENCE OF MOLD MATERIAL ON TIME AND EFFICIENCY OF THE INJECTION PROCESS
- 11 **Monika Kopeć** (*Lodz University of Technology*)
THE ROLE OF PROANGIOGENIC FACTORS AND ANTI-ANGIOGENIC FACTORS IN ANGIOGENESIS PROCESS (ENG)
- 12 **Klaudia Kropidłowska** (*University of Gdańsk*)
COMPARISON OF EFFECTS OF PHARMACEUTICALS ON CYANOBACTERIA AND GREEN ALGAE
- 13 **Kerstin Ledniowska** (*Łukasiewicz Research Network*)
POLY(VINYL CHLORIDE) BIOBASED PLASTICIZERS
- 14 **Jakub Łągiewka** (*Jan Długosz University in Czestochowa*)
NEW CYCLODEXTRIN SYSTEMS WITH DIANHYRIDES OF CARBOXYLIC ACIDS
- 15 **Magda Pęska** (*Military University of Technology in Warsaw*)
MG-BASED SOLID STATE HYDROGEN STORAGE MATERIALS (ENG)
- 16 **Magdalena Rzeszotarska** (*Military University of Technology in Warsaw*)
IS IT POSSIBLE TO MANUFACTURE MG₂FEH₆ FROM AUSTENITIC STAINLESS STEEL? (ENG)

NATURAL SCIENCES SESSION

On-line Presentations

- 1 13:40 – 13:50 **Patrycja Biernacka** (*West Pomeranian University of Technology in Szczecin*)
THE USE OF FARMED CARP (CYPRINUS CARPIO) MEAT TO INCREASE THE NUTRITIONAL VALUE OF STARCHY SNACKS
- 2 13:50 – 14:00 **Karolina Głęb** (*Rzeszow University of Technology*)
ACTIVITY OF NEW DENDRIMERIC CONSTRUCTS (PAMAM G3) WITH BIOTIN AND ALPHA-MANGOSTIN RESIDUES AGAINST HUMAN SCC-15 SQUAMOUS CELL CARCINOMA CELLS
- 3 14:00 – 14:10 **Roksana Kruć-Fijałkowska** (*Adam Mickiewicz University in Poznań*)
RIVERBANK FILTRATION AS A NATURAL WATER TREATMENT PROCESS IN THE CASE OF ORGANIC MICROPOLLUTANTS ON THE EXAMPLE OF THE MOSINA-KRAJKOWO WELL FIELD
- 4 14:10 – 14:20 **Kinga Pałatyńska, Bartłomiej Wysoczański** (*West Pomeranian University of Technology in Szczecin*)
METHODOLOGY OF DETECTING PCR-SCAR MARKERS AND DETERMINING THEIR LOCATION ON THE GENETIC MAP ON THE EXAMPLE OF RYE (SECALE CEREALE L.)
- 14:20 **End of the Conference**



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Presentations

- 1 **Anna Ignaczak** (*Warsaw University of Life Sciences*)
ANALYSIS OF THE FATTY ACIDS COMPOSITION OF SELECTED FAT SPREADS FOR BREAD
- 2 **Anna Ignaczak** (*Warsaw University of Life Sciences*)
EDIBLE INSECTS AS AN ALTERNATIVE SOURCE OF PROTEIN IN HUMAN NUTRITION IN TERMS OF CONSUMER ACCEPTANCE AND CURRENT EXPERIMENTAL RESEARCH
- 3 **Marcin Dreger** (*University of Silesia*)
THE METHANE EMISSION IN THE UPPER SILESIA COAL BASIN AGAINST THE POLISH MINING GROUP CLOSING PROGRAM
- 4 **Aleksandra Garbiec** (*University of Life Sciences in Lublin*)
CANINE SEPARATION ANXIETY - DIAGNOSIS AND THERAPY (ENG)
- 5 **Adonis Hilal** (*Warsaw University of Life Sciences*)
THE EFFECT OF SODIUM ALGINATE AND CHITOSAN ON THE PROPERTIES OF INULIN GELS (ENG)
- 6 **Zbigniew Jelonek** (*University of Silesia in Katowice*)
A RELATIVE RELATIONSHIP BETWEEN LOW-STACK EMISSION AND THE QUALITY OF FUELS USED IN HEATING BOILERS AND GRILLS
- 7 **Joanna Kapustka** (*University of Life Sciences in Lublin*)
BERSERK MALE SYNDROME AS ALPACAS' SOCIALIZATION DISORDER
- 8 **Agata Lange** (*Warsaw University of Life Sciences*)
BACTERIAL RESISTANCE (ENG)
- 9 **Kacper Lewikowski** (*University of Life Sciences in Lublin*)
METALLOTHIONEIN ROLE IN PATHOLOGICAL CONDITIONS INDUCED BY METALS AND METALLOIDS IN ANIMALS
- 10 **Jakub Osypiuk** (*University of Warmia and Mazury in Olsztyn*)
ASSESSMENT AND COMPARISON OF DIFFERENT ASPECTS OF DOG NUTRITION IN POLAND
- 11 **Wiktoria Piątek** (*Maria Curie-Skłodowska University*)
CHARACTERISTICS, SYNTHESIS, AND USES OF LACTOBIONIC ACID AS A NEXT-GENERATION POLYHYDROXY ACIDS (PHA) IN THE COSMETICS INDUSTRY (ENG)
- 12 **Sylvia Stefanek** (*Maria Curie-Skłodowska University*)
THE MODIFICATION OF BEER POLYPHENOLS COMPOSITION BY LACCASE ISOLATED FROM CERRENA UNICOLOR
- 13 **Sebastian Szymjda** (*Pomeranian University in Słupsk*)
MALONDIALDEHYDE (MDA) AS A BIOINDICATOR OF THE INTENSITY OF THE LIPOPEROXIDATION PROCESS IN DIABETES MELLITUS
- 14 **Iwona Szymańska** (*Warsaw University of Life Sciences*)
EVALUATION OF THE PHYSICAL STABILITY AND MICRORHEOLOGICAL PROPERTIES OF EDIBLE OLEOGELS
- 15 **Natalia Świerczek** (*Wrocław University of Science and Technology*)
ACTIVITY OF NISIN IN COMBINATION WITH CONVENTIONAL ANTIBIOTICS AGAINST SELECTED BACTERIAL STRAINS

Posters

- 1 **Michał Antkowiak** (*Poznan University of Life Sciences*)
NO ASSOCIATION BETWEEN AMY2B GENE COPY NUMBER AND OBESITY RISK IN LABRADOR RETRIEVER DOGS (ENG)
- 2 **Łukasz Antoniak** (*Maria Curie-Skłodowska University*)
ANTICANCER PROPERTIES OF CURCUMIN



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- 3 **Dorota Gendaszewska** (*Łukasiewicz Research Network*)
EFFECTIVENESS OF BIOSTIMULATORS IN ALLEVIATING THE EFFECTS OF BIOTIC AND ABIOTIC STRESS IN PLANTS
- 4 **Zbigniew Jelonek** (*University of Silesia in Katowice*)
FUEL AND ASH PARAMETERS IN THE LIGHT OF PETROGRAPHIC STUDIES
- 5 **Oskar Kamiński** (*Adam Mickiewicz University in Poznań*)
ORGANOIDS – ORGANS ON A PETRI DISH
- 6 **Mikołaj Maj** (*Adam Mickiewicz University in Poznań*)
POTENTIAL USES OF BACTERIOPHAGE THERAPY IN THE CONTROL OF ANTIBIOTIC-RESISTANT PATHOGENS
- 7 **Natalia Mikołajczak** (*University of Warmia and Mazury in Olsztyn*)
CHANGES OF QUALITY AND WATER CONTENT IN COLD-PRESSED FLAXSEED OILS DURING STORAGE (ENG)
- 8 **Paulina Pipiak** (*Łukasiewicz Research Network*)
INFLUENCE OF SELECTED BIOSTIMULATORS ON THE YIELD OF MAIZE PLANTS