



Conference Schedule

HUMANITIES SCIENCES

On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **MACIEJ PROKOP**
(*University of Rzeszow*)
LINGUISTIC AND VISUAL ANALYSIS OF ARTICLE TITLES ON THE "SUPER EXPRESS" PORTAL
- 2 10:10 – 10:20 **JAKUB RYS**
(*Pedagogical University of Cracow*)
A PROPOSAL OF INCLUDING FULL-FLEDGED VIDEO GAMES IN EEG BIOFEEDBACK THERAPY
- 3 10:20 – 10:30 **MONIKA SARNAT**
(*Pedagogical University of Cracow*)
THE IMPORTANCE OF MIRROR NEURON ACTIVITY IN EMPATHY

Presentations

- 1 **PAWEŁ LEWANDOWSKI**
(*The John Paul II Catholic University of Lublin*)
THE CLERGY'S RIGHT TO HOLIDAYS (ENG)
- 2 **KAROLINA TADLA**
(*University of Economics in Katowice*)
INNOVATION MANAGEMENT IN ECONOMIC ENTITIES

Posters

- 1 **RACHELA ANTOSZ-REKUCKA**
(*Jagiellonian University*)
THE SUBJECTIVE INTENSITY OF PREMENSTRUAL DISORDERS SYMPTOMS AND PSYCHOTIC-LIKE EXPERIENCES
- 2 **ANDRZEJ GREŃCZUK**
(*Wroclaw University of Economics and Business*)
APPLICATION OF COGNITIVE NETWORKS. LITERATURE RESEARCH
- 3 **KAMIŁA ŁUCZAK**
(*Wroclaw University of Economics and Business*)
THE ROLE OF USER EXPERIENCE IN VR AND AR TECHNOLOGIES - A LITERATURE REVIEW (ENG)
- 4 **ZUZANNA POREBOWICZ**
(*The Maria Grzegorzewska University*)
THE WAYS OF SOCIALIZING HOMESCHOOLED STUDENTS
- 5 **MICHELLE VILLANUEVA JARA**
(*Andrzej Frycz Modrzewski Krakow University*)
STUDENT SUPPORT GROUP AS A FORM OF PSYCHOLOGICAL HELP FOR STUDENTS



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MEDICAL SCIENCES

On-line Presentations

- 10:50 – 11:00 **Opening the Session and discussing technical matters**
- 1 11:00 – 11:10 **DAGMARA ADAMSKA-TOMASZEWSKA**
(*Medical University of Silesia*)
RHABDOMYOLYSIS - POSSIBLE LIFE-THREATENING COMPLICATION OF INFECTIOUS AND ONCOLOGICAL DISEASES - OWN EXPERIENCES AND LITERATURE REVIEW (ENG)
- 2 11:10 – 11:20 **MAGDALENA GRAZUL**
(*Medical University of Lodz*)
COULD PROBIOTICS SUPPORT TREATMENT OF DIABETIC FOOT INFECTIONS? (ENG)
- 3 11:20 – 11:30 **DAMIAN PAWLIK**
(*University of Health and Sport Sciences in Wrocław*)
INFLUENCE OF JUMP HEIGHT ON THE GAME EFFICIENCY IN ELITE VOLLEYBALL PLAYERS
- 4 11:00 – 11:10 **ALICJA SIERAKOWSKA**
(*University of Opole*)
ANTIPSYCHOTIC DRUGS IN ANOREXIA NERVOSA

Presentations

- 1 **JOANNA GRAFFSTEIN**
(*NanoSanguis S.A.*)
POLYELECTROLYTE MULTILAYERS IN BLOOD SUBSTITUTE PREPARATIONS (ENG)
- 2 **BARBARA KAPROŃ**
(*Medical University of Lublin*)
NOVEL HUMAN TOPOISOMERASE II INHIBITORS AS ANTICANCER AGENTS
- 3 **EDYTA KUCHARSKA**
(*West Pomeranian University of Technology in Szczecin*)
TRIPEPTIDE GHK-CU IN PREVENTION OF OXIDATIVE STRESS - IMPLICATIONS FOR COGNITIVE HEALTH (ENG)
- 4 **ALICJA PALUCH**
(*Medical University of Lublin*)
THE OBESITY EPIDEMIC, LEADING TO TYPE TWO DIABETES - THE METABOLIC DISEASES OF THE 21ST CENTURY
- 5 **IZABELA PALUCH FILIPSKA**
(*Medical University of Silesia*)
WHAT DO CHRONICALLY ILL PEOPLE WITH MULTIMORBIDITY DISEASE NEED
- 6 **NATALIA SĘKARA-DONIEC**
(*Synevo sp. z o.o.*)
THE ROLE OF BASIC TESTS IN HEALTH CARE - ON THE BASIS OF GENERAL URINE EXAMINATION
- 7 **NATALIA SĘKARA-DONIEC**
(*Synevo sp. z o.o.*)
INTERLEUKIN 6 - A SUPER IMMUNE-GUARDING CYTOKINE
- 8 **ANETA ZAJĄC**
(*Synevo sp. z o.o.*)
DISEASES AND DEFECTS FOUND IN NEONATAL SCREENING
- 9 **ANETA ZAJĄC**
(*Synevo sp. z o.o.*)
UTERINE NECK CANCER



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10 **DAMIAN ZYM**

(MAWI M. Piszczek & W. Dziejcie Spółka jawna)

INNOVATIVE SYSTEM OF EQUIPMENT FOR STORAGE AND FULL RECORDING OF THE CIRCULATION OF THERMOLABILE DRUGS

11 **JOANNA ŻANDAREK**

(Jagiellonian University)

PRELIMINARY EVALUATION OF THE TOXICITY OF CEFEPIME PHOTODEGRADATION PRODUCTS USING THAMNOCEPHALUS PLATYURUS

Posters

1 **KLAUDIA JAKUBOWSKA**

(Vincent Pol University)

NURSING CARE OF THE PATIENT AFTER STROKE

2 **KLAUDIA JAKUBOWSKA**

(Vincent Pol University)

ART THERAPY IN THE FIGHT AGAINST "STUDENT BURNOUT"

3 **KLAUDIA JAKUBOWSKA**

(Vincent Pol University)

EVALUATION OF THE EFFECTIVENESS OF KNEE JOINT MOBILIZATION IN PATIENTS WITH GONARTHROSIS

4 **JULIA ŁUCZAK**

(Pomeranian Medical University in Szczecin)

THE DIFFERENCES IN THE ELEMENTAL COMPOSITION OF POLISH IPA STYLE BEERS

TECHNICAL SCIENCES

On-line Presentations

09:50 – 10:00 **Opening the Session and discussing technical matters**

1 10:00 – 10:10 **AGNIESZKA DOBRZYŃSKA-JAROSZ**

(Wroclaw University of Science and Technology)

SECURITY DESIGN OF CONTEMPORARY PUBLIC UTILITY FACILITIES

2 10:10 – 10:20 **EWELINA GODEK**

(Maria Curie-Skłodowska University in Lublin)

COMPARISON OF THE INFLUENCE OF CATIONIC GUAR GUM ON STABILIZATION AND FLOCCULATION PROPERTIES OF THE AQUEOUS SUSPENSIONS OF GLAUCONITE AND MONTMORILLONITE

3 10:20 – 10:30 **MIKOŁAJ KULA**

(Vivid Games)

PREDICTIVE MODELLING FOR REAL-TIME GAME CONTENT MODIFICATION (ENG)

4 10:30 – 10:40 **ANNA MARTIN**

(Poznan University of Technology)

ELECTRICALLY CONDUCTIVE COATINGS CONTAINING SODIUM LIGNOSULFONATE AND CARBON NANOTUBES AS POTENTIAL ORGANIC SENSORS

5 10:40 – 10:50 **JUSTYNA MILEK**

(Bydgoszcz University of Science and Technology)

DETERMINATION THE ACTIVATION ENERGY AND DEACTIVATION ENERGY FOR ENZYMATIC REACTION



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- 6 10:50 – 11:00 **JUSTYNA MILEK**
(Bydgoszcz University of Science and Technology)
 DETERMINATION THE ACTIVATION ENERGY AND DEACTIVATION ENERGY OF PHENOL
 DECOMPOSITION BY IMMOBILIZED HORSE RADISH PEROXIDASE
- 7 11:00 – 11:10 **EWELINA WARMBIER**
(Poznan University of Technology)
 VISCOELASTIC PROPERTIES OF EMULSIONS STABILIZED WITH THE ADDITION OF
 POLYETHYLENE OXIDE

Presentations

- 1 **MAGDALENA MALGORZATA BALIK**
(Lodz University of Technology)
 INFLUENCE OF THE QUALITY OF GRAPHENE MATERIALS ON THE ACHIEVED CURRENT PARAMETERS IN
 LIB CELLS
- 2 **MARIA WERONIKA DREWNOWSKA**
(Bialystok University of Technology)
 PRO-ECOLOGICAL SYSTEMS IN MODERN HIGH-RISE BUILDINGS
- 3 **PIOTR GRELOWSKI**
(IT Business Consulting Group Sp. z o.o.)
 DEVELOPMENT OF INNOVATIVE ULTRASONIC AIR POLLUTION FILTER TECHNOLOGY
- 4 **KAROLINA KOWALSKA**
(University of Silesia)
 STRUCTURAL AND SPECTROSCOPIC PROPERTIES OF MULTICOMPONENT GERMANATE GLASSES
 CONTAINING TITANIUM DIOXIDE DOPED WITH RARE-EARTH IONS FOR PHOTONIC APPLICATIONS
- 5 **SYLWIA KWIATKOWSKA-MARKS**
(Bydgoszcz University of Science and Technology)
 METHOD OF OBTAINING BEADS WITH A HIGH CONTENT OF CALCIUM ALGINATE
- 6 **SYLWIA KWIATKOWSKA-MARKS**
(Bydgoszcz University of Science and Technology)
 SORPTION OF CU(II) ON BEADS WITH DIFFERENT ALGINATE CONTENT - COMPARISON OF LANGMUIR
 AND FREUNDLICH ISOTHERMS
- 7 **MAGDALENA MAMCARZ**
(University of Silesia in Katowice)
 BROWNIAN MOTION
- 8 **PIOTR MICHAŁOWSKI**
(Poznan University of Technology)
 CARBIMAZOLE AS THE PRODRUG THYROID HORMONE INHIBITOR
- 9 **MAGDALENA MITERSKA**
(Central Mining Institute)
 BREAK ROOMS FOR EMPLOYEES EXPOSED TO NOISE AT WORKSTATIONS. RESEARCH AND
 SOUNDSCAPE MODIFICATIONS
- 10 **PAWEŁ PATER**
(PPiR GOSTER)
 TESTING RESULTS OF VARIOUS MATERIALS ON A SCREEN WITH A GEARLESS EXCITER
- 11 **JULIA SŁOWIKOWSKA**
(Cracow University of Technology)
 HUNGARIAN METHOD AS ONE OF THE OPTIMIZATION METHODS
- 12 **PAWEŁ SZCZYGLÓWSKI**
(J. Łukasiewicz Rzeszów University of Technology)
 AIRLINE TRANSPORT AND ENVIRONMENT



- 13 **ILONA TRAWCZYŃSKA**
(Bydgoszcz University of Science and Technology)
HOW DOES ISOPROPYL ALCOHOL WORK ON DRY YEAST?
- 14 **ILONA TRAWCZYŃSKA**
(Bydgoszcz University of Science and Technology)
PREDICTION OF THE INCREASING OF CELL MEMBRANES PERMEABILIZATION
- 15 **SŁAWOMIR WALKOWIAK**
(Poznan University of Technology; Exide Technologies)
VALVE REGULATED LEAD ACID BATTERIES WITH ABSORBENT GLASS MAT SEPARATOR PRODUCTION OVERVIEW
- 16 **DAWID WIRTEK**
(Rzeszow University of Technology)
FACTS AND MYTHS ABOUT AIRCRAFT CONSTRUCTIONS
- 17 **MARCIN ZAGRODZKI**
(Cracow University of Technology Tadeusz Kościuszko)
THE USE OF ARTIFICIAL INTELLIGENCE IN IMAGE ANALYSIS
- 18 **ANNA ZIAJA**
(Rzeszów University of Technology)
ARE RENEWABLE ENERGY USED IN CIVIL AVIATION?

Posters

- 1 **MAGDA BIELICKA**
(University of Białystok)
NANOPARTICLES IN FOOD INDUSTRY (ENG)
- 2 **IZABELA GORTAT**
(Lodz University of Technology)
SEAWATER DESALINATION USING PERVAPORATION METHOD
- 3 **MATEUSZ JAMROŻY**
(Cracow University of Technology)
BIOCOMPATIBLE POLYMER SYSTEMS WITH POTENTIAL APPLICATION AS THIRD GENERATION DRESSING MATERIALS
- 4 **RAFAŁ OWCZARCZAK**
(Wroclaw University of Science and Technology; KMB Grupa Sp. z o.o. sp. K)
HUMAN ACTIVITY INSIDE A BUILDING. CAN IT BE USED TO POWER IOT DEVICES?
- 5 **JULIA SZREDER**
(Silesian University of Technology)
SYNTHESIS OF 3-MERCAPTOPROPYL O-GLYCOSIDES AND THEIR APPLICATION FOR IMPROVING THE BIOAVAILABILITY AND SELECTIVITY OF COMPOUNDS EXHIBITING ANTITUMOR ACTIVITY
- 6 **PAWEŁ WOJTASZ**
(The Gdańsk University of Technology)
WOOD PLASTIC COMPOSITES IN IN THE 21ST CENTURY
- 7 **MIŁOSZ WORWA**
(Cracow University of Technology)
USING A PLC CONTROLLER TO CONTROL AN OSCILLATING PLANT



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NATURAL SCIENCES

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- 11:20 – 11:30 **Opening the Session and discussing technical matters**
- 1 11:30 – 11:40 **DAMIAN GAWROŃSKI**
(*"Ekodarpol"; University of Life Sciences*)
DEVELOPMENT OF INNOVATIVE AGENTS SUPPORTING THE CULTIVATION AND PROTECTION OF PLANTS WHILE IMPROVING THEIR HEALTH AND SOIL QUALITY BY CARRYING OUT INDUSTRIAL RESEARCH AND EXPERIMENTAL DEVELOPMENT WORKS
- 2 11:40 – 11:50 **DAGMARA WEŻYK**
(*University of Warsaw*)
DIROFILARIA REPENS AND BABESIA CANIS: HAEMATOLOGICAL PARAMETERS AND IMMUNE RESPONSE PROFILE IN DOGS WITH SINGLE INFECTION AND CO-INFECTED WITH PARASITES (ENG)

Presentations

- 1 **KAROLINA KARAŚ**
(*University of Rzeszow*)
HIKING IN THE BIESZCZADY NATIONAL PARK IN THE OPINION OF TOURISTS
- 2 **KATARZYNA KAZIMIERSKA**
(*West Pomeranian University of Technology in Szczecin*)
MICROBIOLOGICAL QUALITY ASSESSMENT OF DRY FOODS FOR DOGS DIVIDED INTO GRAIN AND GRAIN-FREE FOODS (ENG)
- 3 **JULIA KORCZYK**
(*Jagiellonian University*)
THE EFFECT OF SLEEP DEPRIVATION ON BRAIN PLASTICITY
- 4 **WERONIKA MICHALSKA**
(*University of Warsaw*)
TEMPORAL VARIATION IN NEPHOLOGICAL CONDITIONS IN THE CENTRAL PART OF MADAGASCAR. AN EXAMPLE OF ANTANANARIVO
- 5 **VASYLYNA PETROVETS**
(*University of Rzeszow*)
CHANGES IN TOURIST MOVEMENT IN TIMES OF PANDEMIC ON THE EXAMPLE OF ZOLOCHIV CASTLE IN THE OPINION OF RESIDENTS IN LVIV REGION

Posters

- 1 **PAULINA KANDZIA**
(*University of Silesia*)
THE INTENSITY OF LAND USE ON THE EXAMPLE OF COMMUNES OF THE CZESTOCHOWA AGGLOMERATION
- 2 **ANNA KISIEL**
(*Student Science Club "Lunapark" University of Szczecin*)
EXPRESION OF GENES ENCODING CHITINASES IN MEDICAGO TRUNCATULA AFTER INOCULATION WITH RHIZOBACTERIA
- 3 **MACIEJ KOŁODZIEJCZAK**
(*Student research club "Lunapark", University of Szczecin*)
FACTORS INFLUENCING THE KINETICS OF THE BOD PROCESS (ENG)
- 4 **MACIEJ KOŁODZIEJCZAK**
(*Student Scientific Circle "Lunapark", University of Szczecin*)
AN EXAMPLE OF DISCRIMINANT ANALYSIS IN HYDROCHEMICAL RESEARCH (ENG)



5 **KRZYSZTOF MAKOWSKI**

(Refimol sp. z o.o.)

ISOLATION AND SCREENING OF WILD TYPE BACTERIA FOR ABILITY TO HYALURONIC ACID (HA) BIOSYNTHESIS *(ENG)*

6 **PAULINA MATUSZEWSKA**

(Student's Science Group "Helisa" University of Information Technology and Management)

ENGAGEMENT OF CERTAIN INTRACELLULAR RECEPTORS IN THE RESPONSE TO THE SILVER NANOPARTICLES-INDUCED STRESS IN NEUROBLASTOMA CELLS IN VITRO

7 **TYMOTEUSZ MILLER**

(Polish Society of Bioinformatics and Data Science BIODAT)

PRESCRIPTIVE ANALYTICS IN ENVIRONMENTAL SCIENCES *(ENG)*

8 **TYMOTEUSZ MILLER**

(Polish Society of Bioinformatics and Data Science BIODAT)

MOLECULAR IDENTIFICATION OF BACTERIAL STRAINS ISOLATED FROM THE MEDICAGO RHIZOSPHERE *(ENG)*