



## Conference Schedule

### HUMANITIES SCIENCES SESSION

#### On-line Presentations

- 11:50 – 12:00 **Opening the Session and discussing technical matters**
- 1 12:00 – 12:10 **ALEKSANDER GEMEL**  
*(University of Lodz)*  
THE PROBLEM OF KNOWLEDGE REPRESENTATION IN THE THEORY OF ARTIFICIAL INTELLIGENCE
- 2 12:10 – 12:20 **MAGDALENA OLESZKIEWICZ**  
*(University of Silesia in Katowice)*  
THE INFLUENCE OF “KNOWING THE LANGUAGE” ON THE FORMATION OF ASSOCIATIONS WITH WORDS IN FOREIGN LANGUAGES BY BILINGUAL AND MULTILINGUAL LANGUAGE LEARNERS
- 3 12:20 – 12:30 **ESTERA SIKORSKA**  
*(Adam Mickiewicz University)*  
MODERN PRESS STATE IN BAHRAIN

#### Presentations

- 1 **JAKUB KOCZAR**  
*(Cracow University of Economics)*  
THE EXISTENCE OF A SYSTEM OF SOCIAL AND ECONOMIC JUSTICE IN THE GLOBAL CAPITALIST WORLD – THE FUNDAMENTALS AND PRINCIPLES OF ISLAMIC BANKING
- 2 **KORNELIA KORDIAK**  
*(University of Wrocław)*  
BINGE-WATCHING AS A HOBBY OR A THREAT? ONE MORE EPISODE SYNDROME
- 3 **EMILIA OKARMA**  
*(Cracow University of Economics)*  
SALES TACTICS IN RETAIL BANKING
- 4 **ADELAJDA OKOŃ**  
*(University of Warsaw)*  
FORMS OF FINANCIAL SUPPORT FROM THE COMPANY SOCIAL BENEFITS FUND
- 5 **SANDRA PACZKOWSKA**  
*(University of Nicolaus Copernicus)*  
THE THEORY OF EVOLUTION – THE PARADIGM SHIFT
- 6 **DARIA PAŃKA**  
*(The University of Warsaw)*  
PANDEMIC-RELATED LOANWORDS IN THE LANGUAGE OF POLISH FACEBOOK USERS (ENG)
- 7 **VASYLYNA PETROVETS**  
*(University of Rzeszów)*  
CHANGES IN TOURIST MOVEMENT IN TIMES OF PANDEMIC ON THE EXAMPLE OF OLESKO CASTLE IN THE OPINION OF LVIV REGION RESIDENTS
- 8 **ALEKSANDRA PILIPIUK**  
*(Kozłowski University)*  
BENEFITS OF HAVING LEGAL AND FINANCIAL EDUCATION IN THE CONTEXT OF THE LAWYER CAREER
- 9 **MARTYNA PINDA**  
*(Cracow University of Economics)*  
FINANCING MUSEUMS IN POLAND



# National Scientific Conference Knowledge - Key to Success

7th edition

- 10 **PAULINA PŁAZA**  
(*Cracow University of Economics*)  
THE MONETARY POLICY OF THE FEDERAL RESERVE SYSTEM DURING THE 2020 ECONOMIC CRISIS
- 11 **MAJA RUSEK**  
(*Cracow University of Economics*)  
FINTECH SECTOR – AREAS OF ACTIVITY AND DETERMINANTS OF DEVELOPMENT
- 12 **SZYMON SKIERKOWSKI**  
(*Cracow University of Economics*)  
THE REASONS FOR THE INCREASE IN INFLATION IN THE 21ST CENTURY IN THE WORLD

## Posters

- 1 **ZOFIA BUCZEK**  
(*Cracow University of Economics*)  
INTEREST RATES AND THEIR EFFECTS
- 2 **BARTOSZ BUTA**  
(*Cracow University of Economics*)  
MODERN BANKING IN THE CONTEXT OF METAVERSE
- 3 **JUSTYNA SZYDEŁKO**  
(*Cracow University of Economics*)  
THE BIGGEST FINANCIAL CRISES
- 4 **KARINA SZYMAŃSKA**  
(*The Silesian Technical University*)  
GREEN PUBLIC PROCUREMENT FROM THE CONTRACTOR'S PERSPECTIVE
- 5 **KINGA TOKARZ**  
(*Cracow University of Economics*)  
FINANCIAL TECHNOLOGIES

## MEDICAL SCIENCES SESSION

### On-line Presentations

- 12:50 – 13:00 **Opening the Session and discussing technical matters**
- 1 13:00 – 13:10 **IZABELA KIEBAŁA**  
(*University of Rzeszów*)  
ASSESSING THE IMPORTANCE AND EFFECTIVENESS OF STEM CELLS IN THE TREATMENT OF NEURODEGENERATIVE DISEASES
  - 2 13:10 – 13:20 **ALEKSANDRA KIPER**  
(*University of Rzeszów*)  
ASSESSMENT OF THE EFFECTS PRODUCED BY REHABILITATION IN OBESE CHILDREN WITH MILD INTELLECTUAL DISABILITY
  - 3 13:20 – 13:30 **NATALIA PICHETA**  
(*Medical University of Lublin*)  
ASSOCIATION BETWEEN PATHOGENS AND ALZHEIMER'S DISEASE DEVELOPMENT
  - 4 13:30 – 13:40 **KLAUDIA WINIARCZYK**  
(*Medical University of Lublin*)  
MUSHROOMS AS A SOURCE OF BIOACTIVE AGENTS WITH NEUROPROTECTIVE PROPERTIES

### Presentations

- 1 **ANNA ANTONIK**  
(*Medical College of Rzeszów University*)  
HADDAD SYNDROME – EPIDEMIOLOGY, DIAGNOSTICS, THERAPY, PROSPECTS FOR THE FUTURE



- 2 **MICHAŁ CZACHAJDA**  
(Medical University of Lublin)  
SHORT-CHAIN FATTY ACIDS(SCFAS) – COMMON SUBSTANCES WITH EXTRAORDINARY PROPERTIES
- 3 **SZYMON GALAS**  
(Poznań University of Physical Education)  
SELECTED METHODS OF DETERMINING THE LEVEL OF INDIVIDUAL COMPONENTS OF SPECIAL FITNESS IN TABLE TENNIS BY GOMES – LITERATURE REVIEW
- 4 **MARTA HAŁAS-WIŚNIEWSKA**  
(Nicolas Copernicus University in Toruń, Collegium Medicum in Bydgoszcz)  
THE ROLE OF THE ACTIN CYTOSKELETON AND EZRIN IN THE MIGRATION OF CERVICAL CANCER CELLS
- 5 **DOMINIK KĘDZIERSKI**  
(Radom Academy of Economics)  
INFLAMMATORY BOWEL DISEASE IN THE CONTEXT OF STRESS
- 6 **KINGA KOGUT**  
(University of Rzeszów)  
AYAHUASCA TOURISM IN THE AMAZON REGION
- 7 **ADRIANNA LIEDKE**  
(University of Rzeszów)  
TOURIST TRAFFIC IN PALACE AND CASTLE FACILITIES IN PODKARPACKIE VOIVODESHIP
- 8 **ALICJA PALUCH**  
(Medical University of Lublin)  
CERVICAL CANCER – AN INTERDISCIPLINARY PROBLEM
- 9 **ALICJA PALUCH**  
(Medical University of Lublin)  
CONTEMPORARY PROCEDURE DIAGNOSTIC AND THERAPEUTIC PROCEDURES IN THE PITUITARY GLAND TUMOURS
- 10 **MAGDALENA ZŁOTEK**  
(Medical University of Lublin)  
ANTI-CANCER POTENTIAL OF RETINOIDS – A REVIEW
- 11 **JOANNA ŻANDAREK**  
(Medical College, Jagiellonian University)  
ANTIBIOTIC RESISTANCE AS A SERIOUS THREAT TO GLOBAL HEALTH

### Posters

- 1 **JUSTYNA DZIEDZIC**  
(Maria Curie-Skłodowska University in Lublin)  
ANTICANCER THERAPY USING MIRNAS
- 2 **KATARZYNA GDULA**  
(University of Maria Curie – Skłodowska)  
APPLICATION OF NANOCARRIERS IN COMBATING MULTIDRUG RESISTANCE IN CANCERS
- 3 **ALEKSANDRA GOLONKA**  
(Jagiellonian University Medical College)  
HOW WESTERN DIET AND PLANT-BASED DIET MODIFICATES THE GUT MICROBIOTA?
- 4 **PATRYCJA GUZEWICZ**  
(Medical University of Białystok)  
MIDWIVES WORKING IN THE LABOR ROOM TOWARDS NON – PHARMACOLOGICAL METHODS OF LABOR PAIN RELIEF
- 5 **DAWID KABAŁA**  
(GeneMe Molecular)  
SNP LABELING WITH TAQMAN PROBES MORE ADVANTAGEOUS THAN SEQUENCE READING IN DIAGNOSTICS (ENG)



6 **GRZEGORZ ZIELIŃSKI**

*(Institute of Biotechnology and Molecular Medicine)*

THE DIAGNOSTIC SIGNIFICANCE OF THE QUALITY OF ISOLATED DNA IN GENOTYPING WITH TAQMAN PROBES (ENG)

## TECHNICAL AND NATURAL SCIENCES SESSION

### On-line Presentations

- 11:50 – 12:00 **Opening the Session and discussing technical matters**
- 1 12:00 – 12:10 **ALEKSANDRA BEDNAREK**  
*(Lodz University of Technology)*  
EFFECT OF MULTIPLE HEAT TREATMENT OF POLYCAPROLACTONE (PCL) ON THE PROPERTIES OF FILAMENTS INTENDED FOR 3D PRINTING OF STRUCTURES FOR BIOMEDICAL APPLICATIONS
- 2 12:10 – 12:20 **ARKADIUSZ LEWICKI**  
*(University of Information Technology and Management in Rzeszow; Sagitum S.A.)*  
MULTI-LAYER SELF-ORGANIZING MAP IN IDENTIFYING AND CATEGORIZING ERRORS PROBLEM FOR ROBOTIC PROCESS AUTOMATION SOFTWARE
- 3 12:20 – 12:30 **JUSTYNA MILEK**  
*(Bydgoszcz University of Science and Technology)*  
COMPARISON OF TWO METHODS TO DETERMINATE THE DEACTIVATION ENERGY OF ENZYMES
- 4 12:30 – 12:40 **ŁUKASZ NYCZKOWSKI**  
*(General Electric Company Polska Sp. z o.o.)*  
OPTIMIZATION OF THE VERIFICATION PROCESS OF SAFETY-CRITICAL SYSTEMS IN AVIATION
- 5 12:40 – 12:50 **RADOSŁAW SZYMON**  
*(Wrocław University of Science and Technology)*  
LATTICE DYNAMICS IN GAN NANOWIRES STRAINED BY WIDE BANDGAP OXIDE-SHELL (ENG)

### Presentations

- 1 **ALEKSANDRA BUCZYŃSKA**  
*(Białystok University of Technology)*  
BIOPHILIC DESIGN
- 2 **ZUZANNA BYCZKOWSKA-ROSTKOWSKA**  
*(University of Warmia and Mazury in Olsztyn)*  
RESISTANCE OF STAPHYLOCOCCUS SPECIES TO QUATERNARY AMMONIUM COMPOUND
- 3 **ANNA DMOCHOWSKA**  
*(Białystok University of Technology)*  
LOW TECH ARCHITECTURE
- 4 **MONIKA MICHALAK**  
*(University of Warmia and Mazury in Olsztyn)*  
TRANSCRIPTOME CHANGES IN LISTERIA MONOCYTOGENES DURING SOUS VIDE PROCESSING
- 5 **PIOTR MICHAŁOWSKI**  
*(Poznan University of Technology)*  
TRIPARTITE PRODRUGS AS AN EXAMPLE OF MULTIDIRECTIONAL, PROGRAMMABLE THERAPY
- 6 **MONIKA OSIŃSKA-BRONIARZ**  
*(Łukasiewicz Research Network – Institute of Non-Ferrous Metals)*  
GREEN ANODES FOR SAFE AND HIGH-ENERGY NEW GENERATION OF LI-ION BATTERIES



- 7 **MATEUSZ PRUSAK**  
(University of Warmia and Mazury)  
DETERMINATION OF MICROBIAL SURVIVAL DURING CEVICHE PREPARATION
- 8 **MAGDALENA PRZYBYLCZAK**  
(Poznan University of Technology; Lukaszewicz Research Network - Institute of Non-Ferrous Metals)  
IMPACT OF NANOSTRUCTURAL NIOBIUM (V) OXIDES ON ELECTROCHEMICAL BEHAVIOUR OF COMPOSITE CARBON-SULFUR CATHODE FOR LI-S CELLS
- 9 **ILONA TRAWCZYŃSKA**  
(Bydgoszcz University of Science and Technology)  
STATISTICAL EVALUATION OF MATHEMATICAL MODELS USED IN THE PERMEABILIZATION PROCESS OF BAKER'S YEAST CELLS
- 10 **SŁAWOMIR WALKOWIAK**  
(Poznan University of Technology; Exide Technologies Poznan)  
OVERVIEW OF LEAD GRID PRODUCTION TECHNOLOGIES FOR LEAD ACID BATTERIES
- 11 **ZUZANNA WASILEWSKA**  
(University of Warmia and Mazury)  
HOW CEVICHE PREPARATION CAN AFFECT VIRULENCE POTENTIAL OF LISTERIA MONOCYTOGENES

### Posters

- 1 **STANISŁAW DRYJA**  
(Cracow University of Technology)  
BUILDINGS MADE IN CLAY TECHNOLOGY – SOLUTIONS, DETAILS AND STRUCTURES
- 2 **ARTUR GAŁĘZOWSKI**  
(Gdynia Maritime University)  
PROTECTING THE SHIP'S HULL AGAINST CORROSION WITH PAINT COATINGS
- 3 **ANGELIKA GRZYTA**  
(Institute of Agrophysics, Polish Academy of Sciences in Lublin)  
INFLUENCE OF THE ADDITION OF DIFFERENT ORGANIC MATERIALS ON SOIL WETTABILITY (ENG)
- 4 **MATEUSZ JAMROŹY**  
(Cracow University of Technology)  
HYDROGEL DRESSING MATERIALS – PROPERTIES AND APPLICATIONS
- 5 **ADRIANNA KRZEMIŃSKA**  
(University of Szczecin)  
THE ROLE OF CHITINASE IN PLANT GROWTH AND DEVELOPMENT AND THEIR INTERACTION WITH THE ENVIRONMENT
- 6 **AGNIESZKA MAHER**  
(Lodz University of Technology)  
INFLUENCE OF ACRYLAMIDE ON THE GROWTH OF LACTIC ACID BACTERIA AND YEASTS (ENG)
- 7 **JOANNA MARKIEWICZ**  
(Cracow University of Technology)  
VERTICAL FARMING – TRANSFORMING CITY WALLS INTO VERTICAL FARMS, STRUCTURES, SOLUTIONS AND METHODS
- 8 **BARTŁOMIEJ PAWELSKI**  
(University of Gdansk)  
ON DIVISIBILITY OF DEDEKIND NUMBERS BY 2 AND 3 (ENG)
- 9 **AGATA ROLNIK**  
(University of Lodz)  
SELECTED ASTERACEAE VEGETABLES AS ANTIPLATELET AGENTS IN IN VITRO STUDIES