



14 th edition

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

November 22, 2025

# Conference Schedule

## On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **PIOTR BRZESKI**  
*Cutlery Solutions Michał Brzeski*  
FUNCTIONAL PVD COATINGS FOR FOOD INDUSTRY KNIVES FROM R&D TO INDUSTRIAL IMPLEMENTATION (ENG)
- 2 10:10 – 10:20 **DAWID DACKO**  
*Dekorglass Działdowo S.A.*  
GLASS BATCH CHEMICAL ACTIVATION
- 3 10:20 – 10:30 **DAWID DACKO**  
*Dekorglass Działdowo S.A.*  
DEVELOPMENT OF UV BLOCKING SUPERFLINTGLASS
- 4 10:30 – 10:40 **DAWID DACKO**  
*Dekorglass Działdowo S.A.*  
DIGITAL VERTICAL PRINTING ON GLASS
- 5 10:40 – 10:50 **MATEUSZ HELMINIAK**  
*Kazimierz Wielki University in Bydgoszcz*  
THE NEGATIVE ROLE OF LINGUISTIC CREATIVITY IN THE PROCESS OF LEARNING THE ENGLISH AND THE GERMAN LANGUAGE
- 6 10:50 – 11:00 **KONRAD KRAKOWSKI**  
*University of Agriculture in Krakow*  
E-WASTE AS A SOURCE OF CRITICAL RAW MATERIALS
- 7 11:00 – 11:10 **JOANNA STEFAŃCZYK**  
*Adam Mickiewicz University in Poznań*  
TOXICITY OF COMBUSTION AND PYROLYSIS PRODUCTS DURING UNCONTROLLED ACCIDENTS INVOLVING LITHIUM-ION BATTERIES
- 8 11:10 – 11:20 **MAJA ŚWIDERSKA**  
*University of Agriculture in Krakow*  
NUTRITION AND THE SKIN – THE IMPACT OF DIET ON THE COURSE OF ATOPIC DERMATITIS
- 9 11:20 – 11:30 **LEON TABOR**  
*University of the Commission of National Education in Krakow*  
VIRTUAL MUSEUMS AND EXHIBITIONS – A NEW ERA OF ACCESS TO CULTURE



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## **Presentations**

- 1 **BARTŁOMIEJ BRUSZEWSKI**  
*Białystok University of Technology*  
ANALYSIS OF THE RESILIENCE OF THE RSA ALGORITHM TO CONTEMPORARY CRYPTOGRAPHIC ATTACKS
- 2 **KAROL KOT**  
*PKO Bank Polski S.A.*  
BIOPUAP – CLOUD-BASED BIOMETRIC AUTHENTICATION SYSTEM
- 3 **KAROL KOT**  
*PKO Bank Polski S.A.*  
LAUNCH OF TOKEN AND SMART CONTRACT-BASED SERVICES USING BLOCKCHAIN TECHNOLOGY AT PKO BANK POLSKI SA
- 4 **MICHAŁ KRASNOPOLSKI**  
*ZPE ZAPEL S.A.*  
RESEARCH AND DEVELOPMENT WORKS OF ZPE ZAPEL S.A. TO DEVELOP INNOVATIVE CERAMIC SHIELD TECHNOLOGY FOR ULTRA-HIGH UHV VOLTAGE
- 5 **NATALIA KUBRYŃ**  
*Collegium Medicum Nicolaus Copernicus University*  
THERAPEUTIC POTENTIAL OF PROTAC DEGRADERS IN DISORDERS ASSOCIATED WITH EXCESSIVE STRESS HORMONE ACTIVITY
- 6 **KAROLINA LEMIESZKIEWICZ-SOSNOWSKA**  
*Warsaw School of Economics*  
DIGITAL STRATEGY AND RESPONSIBLE LEADERSHIP: THE RDP AND LDS INDICES
- 7 **WERONIKA MARCHLEWSKA**  
*University of Life Science in Lublin*  
MOLECULAR DETECTION OF ANTIBIOTIC RESISTANCE GENES IN ANIMAL-DERIVED BACTERIA
- 8 **MALGORZATA PRZYBYLSKA**  
*Nicolaus Copernicus Specialist Municipal Hospital in Toruń*  
CASE STUDY – PHYSIOTHERAPY FOR A PATIENT WITH CILIARY DYSKINESIA
- 9 **MARTYNA M. ROSA**  
*Jagiellonian University*  
FROM AUTHORITY TO EMPATHY – THE NEW FACE OF LEADERSHIP IN ESTABLISHED COMPANIES (ENG)
- 10 **JANINA DANUTA RZESZOT**  
*The Academy of Applied Sciences*  
DIFFICULT PATIENT IN PHYSIOTHERAPY, HELP IN REGAINING FITNESS BY A PHYSIOTHERAPIST (ENG)
- 11 **DARIUSZ SKŁODOWSKI**  
*Cardinal Stefan Wyszyński University in Warsaw*  
TRANSFERRING FAMILY ASSETS TO CORPORATE STRUCTURES TO PROTECT THEM FROM DIVISION
- 12 **WERONIKA SZCZĘDOR**  
*University of Life Science in Lublin*  
STRESS BIOMARKERS IN WILD BIRDS AND MAMMALS – MODERN TOOLS FOR ASSESSING WELFARE AND ENVIRONMENTAL IMPACT
- 13 **JULIA WIECZOREK**  
*Czestochowa University of Technology*  
DETERMINANTS OF FAMILY BUSINESSES' READINESS TO IMPLEMENT ESG REPORTING



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## Posters

- 1 **ADAM BĘBEN**  
*Medical University of Gdańsk, BaltiCare – Private Dental Clinic*  
COMPREHENSIVE OCCLUSAL REHABILITATION IN A PATIENT WITH ADVANCED TOOTH WEAR AND COEXISTING TYPE 1 DIABETES
- 2 **ADAM BĘBEN**  
*Medical University of Gdańsk, BaltiCare – Private Dental Clinic*  
REENDODONTIC TREATMENT AND FIBER POST RECONSTRUCTION OF A FRACTURED MAXILLARY LATERAL INCISOR – A CASE REPORT
- 3 **ŁUKASZ KOŁODZIEJ**  
*University of Lodz*  
*Bio-Med-Chem Doctoral School of the University of Lodz and Lodz Institutes of the Polish Academy of Sciences*  
BDNF AND NTN4 MRNA OVEREXPRESSION IN DEPRESSION – A PRELIMINARY STUDY
- 4 **ADAM ŁOŚ**  
*Eko-Styl Rental Sp. z.o.o., Sp.k.*  
DEVELOPING A FINISH THAT GIVES TEXTILE BAGS AND COVERS DUAL FUNCTIONAL PROPERTIES
- 5 **JOANNA MARKOWSKA**  
*Prof. Wacław Dąbrowski Institute Of Agricultural And Food Biotechnology – State Research Institute Department Of Refrigeration Technology And Technique*  
CHEMICAL CONTAMINANTS IN FROZEN VEGETABLES
- 6 **MACIEJ MATYSIK**  
*Poznan University of Technology*  
MODERN CHEMOINFORMATICS APPROACHES IN ANALOGUES OF NATURAL PRODUCTS
- 7 **MACIEJ MATYSIK**  
*Poznan University of Technology*  
INNOVATIVE IN SILICO STRATEGIES FOR THE DEVELOPMENT OF SECONDARY METABOLITE ANALOGUES
- 8 **PIOTR MICHAŁOWSKI**  
*Poznan University of Technology*  
*Laboratory of Medicinal Chemistry, Institute of Bioorganic Chemistry PAS*  
A VALUABLE SOURCE OF BIOACTIVE COMPOUNDS – SECONDARY METABOLITES OF FUNGI
- 9 **PIOTR MICHAŁOWSKI**  
*Poznan University of Technology*  
*Laboratory of Medicinal Chemistry, Institute of Bioorganic Chemistry PAS*  
PRIMARY VS SECONDARY METABOLITES – NATURAL PRODUCTS WITH BROAD APPLICATION POTENTIAL
- 10 **OLIWIA MIERNIK**  
*Jagiellonian University*  
UNIVERSITIES OF THE THIRD AGE AS A RESPONSE TO THE CHALLENGES OF AN AGEING SOCIETY
- 11 **KRZYSZTOF POCIECHA**  
*Jagiellonian University*  
STUDY OF METABOLISM AND INHIBITION OF CYTOCHROME P450 ISOENZYME ACTIVITY BY A NEW XANTHINE DERIVATIVE (*ENG*)
- 12 **JOANNA RACZKOWSKA**  
*HydroSafeGuard S.A.*  
LIGHT AGAINST POLLUTION – A SMART COATING FOR THE FUTURE



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- 13 **MARLENA WAROWNA**  
*University of Radom*  
COSMETIC ACUPUNCTURE
- 14 **MARLENA WAROWNA**  
*Wincenty Pol Academy of Applied Sciences in Lublin*  
THE USE OF GUA SHA STONE IN FACIAL SKIN CARE
- 15 **KRYSTIAN WOLSKI**  
*Silesian University of Technology*  
SUSTAINABLE SYNTHESIS OF ZINC, COPPER AND IRON COMPLEXES FOR MICRONUTRIENT  
FERTILIZER APPLICATIONS IN PLANT SUPPLEMENTATION