



**PROGRAMME**  
**Central European Conference ECOpole'22**

**WEDNESDAY, 19<sup>th</sup> October 2022**

**17.00 - RECEPTION**

**17.00 - 18.50 DINNER**

**19.00 – 19.05 Maria WACLAWEK** (<sup>1</sup>*Ecological Chemistry and Engineering Society, Opole, PL;* <sup>2</sup>*European Academy of Sciences and Arts, Salzburg, AT*): **Welcome Participants**

**19.05 -20.00 Musical Soirée**



## THURSDAY, 20<sup>th</sup> October 2022

**7.30 - 9.40 BREAKFAST**

**10.00 - 12.55 SECTION S I**

**10.00 - 11.45 PLENARY SESSION S1: ENERGY**

**10.00 - 10.05 Maria WACŁAWEK<sup>1,2</sup>** (*<sup>1</sup>Ecological Chemistry and Engineering Society, Opole, PL; <sup>2</sup>European Academy of Sciences and Arts, Salzburg, AT*): **Opening of the Conference**

**10:05 - 10.45 Klaus MAINZER<sup>1,2,3</sup>** (*<sup>1</sup>Technical University of Munich, DE; <sup>2</sup>University of Tübingen, DE; <sup>3</sup>European Academy of Sciences and Arts, Salzburg, AT*): **RENEWABLE ENERGY AND SUSTAINABLE DIGITALIZATION CHALLENGES FOR EUROPE**

**10.45 – 11.45 Rajender S. VARMA<sup>1,2</sup>** (*<sup>1</sup>Palacky University, Olomouc, CZ; <sup>2</sup>U.S. Environmental Protection Agency, Cincinnati, Ohio, USA*): **WASTE-DERIVED CARBONACEOUS MATERIALS: SUSTAINABLE APPLICATIONS OF MAGNETIC NANOCATALYSTS IN CHEMICAL TRANSFORMATIONS AND ENVIRONMENTAL REMEDIATION**

**11.45 – 12.00 COFFEE AND TEA BREAK**

**12.00 – 12.55 PLENARY SESSION S2: ENVIRONMENT FRIENDLY PRODUCTION OF ENERGY**

**12.00 – 12.25 M. Wiśniewska, A. Kulig, K. Lelicińska-Serafin** (*Warsaw University of Technology, Warszawa, PL*): **MUNICIPAL WASTE BIOGAS PLANTS – CIRCULAR ECONOMY IDEA, ODOUR NUISANCE, FEEDSTOCK MODIFICATION**

**12.25 – 12.40 A. Zaremba<sup>1</sup>, T. Rodziewicz<sup>2</sup>, M. Waclawek<sup>3,4</sup>** (*<sup>1</sup>Czestochowa University of Technology, Czestochowa, PL; <sup>2</sup>University of Opole, Opole, PL; <sup>3</sup>Ecological Chemistry and Engineering Society, Opole, PL; <sup>4</sup>European Academy of Sciences and Arts, Salzburg, AT*): **HOW CHANGES IN THE ACCOUNTING OF ENERGY FROM PHOTOVOLTAICS INFLUENCE ITS DEVELOPMENT IN POLAND**

**12.40 – 12.55 P. Świsłowski<sup>1</sup>, M. Rajfur<sup>1</sup>, T. Rodziewicz<sup>1</sup>, M. Waclawek<sup>2,3</sup>** (*<sup>1</sup>University of Opole, Opole, PL; <sup>2</sup>Ecological Chemistry and Engineering Society, Opole, PL; <sup>3</sup>European Academy of Sciences and Arts, Salzburg, AT*): **EFFICIENCY OF ONE OF THE PHOTOVOLTAIC SYSTEMS AT THE UNIVERSITY OF OPOLE**

**13.00 - 14.30 LUNCH**

## **15.00 – 17.15 SECTION S II**

### **15.00 – 15.55 PLENARY SESSION S3: ACHIEVEMENTS OF ECOLOGISTS**

**15:00 – 15.40 Arkadiusz NOWAK<sup>1,2</sup>** (<sup>1</sup>*Polish Academy of Sciences, Botanical Garden – Center for Biodiversity Conservation, Warszawa, PL;* <sup>2</sup>*University of Warmia and Mazury in Olsztyn, Olsztyn, PL*): ECOLOGY IN THE EYES OF AN ECOLOGIST – TODAY'S CHALLENGES, HOT TOPICS, SUCCESSES AND FAILURES OF THIS NOBLE DISCIPLINE

**15.40 – 15.55 P. Świsłowski<sup>1</sup>, A. Nowak<sup>2,3</sup>, M. Rajfur<sup>1</sup>, M. Waclawek<sup>4,5</sup>** (<sup>1</sup>*University of Opole, Opole, PL;* <sup>2</sup>*Polish Academy of Sciences, Botanical Garden – Center for Biodiversity Conservation, Warszawa, PL;* <sup>3</sup>*University of Warmia and Mazury in Olsztyn, Olsztyn, PL;* <sup>4</sup>*Ecological Chemistry and Engineering Society, Opole, PL;* <sup>5</sup>*European Academy of Sciences and Arts, Salzburg, AT*): THE MOSS BAG TECHNIQUE IN EVERYDAY LIFE

### **15.55 – 16.15 COFFEE AND TEA BREAK**

### **16.15 – 17.15 PLENARY SESSION S4: ORGANISMS IN POLLUTED ENVIRONMENT**

**16.15 - 16.30 E. Łobos-Moysa, E. Felis, E. Kudlek** (*Silesian University of Technology, Gliwice, PL*): THE IMPACT OF ANTHROPOGENIC POLLUTANTS ON THE ENVIRONMENT - THE PRESENCE OF UV-FILTERS, VOLATILE FRAGRANCES, PRESERVATIVES, SILOXANES, AND MICROPLASTICS IN MARINE ORGANISMS

**16.30 – 16.45 S. Mikołajczyk, M. Pajurek, M. Warenik–Bany** (*National Veterinary Research Institute, Pulawy, PL*): PERFLUOROALKYL SUBSTANCES IN HEN EGGS FROM DIFFERENT TYPES OF HUSBANDRY

**16.45 – 17.00 S. Mikołajczyk, M. Warenik–Bany, M. Pajurek** (*National Veterinary Research Institute, Pulawy, PL*): PERFLUOROALKYL SUBSTANCES IN BALTIC FISH - RISK FOR CONSUMERS

**17.00 – 17.15 M. Pajurek, M. Warenik–Bany, S. Mikołajczyk, S. Maszewski, W. Pietroń** (*National Veterinary Research Institute, Pulawy, PL*): FEED MATERIALS CONTAMINATED WITH DIOXINS AND PCBS

### **19.00 CONFERENCE DINNER and wine tasting**

## FRIDAY, 21<sup>st</sup> October 2022

**7.00 - 8.45 BREAKFAST**

**9.00 -12.25 SECTION S III**

**9.00 - 9.55 PLENARY SESSION S5: ENVIRONMENTAL POLLUTION**

**9:00 – 9.40 Majeti N.V. PRASAD** (*University of Hyderabad, Hyderabad, Telangana, IN*): EMERGING AND MICROPOLLUTANTS IN THE ENVIRONMENT – SELECTED REMEDIATION TECHNOLOGIES

**9.40 – 9.55 H. Ul Haq, G. Boczkaj** (*Gdansk University of Technology, Gdańsk, PL*): APPLICATIONS OF DEEP EUTECTIC SOLVENT FOR SAMPLE PREPARATION IN FOOD ANALYSIS - A GREEN ANALYTICAL CHEMISTRY APPROACH

**9.55 – 10.15 COFFEE AND TEA BREAK**

**10.15 - 11.10 PLENARY SESSION S 6: ENVIRONMENTAL POLLUTION**

**10.15 – 10.35 J. Kříž<sup>1</sup>, F. Studnička<sup>1</sup>, V. Štěpánek<sup>1,3</sup>, L. Hyšplerová<sup>1</sup>, P. Bauerová<sup>2</sup>, J. Keder<sup>2</sup>, A. Lyčka<sup>1</sup>** (<sup>1</sup>*University of Hradec Králové, Hradec Králové, CZ*; <sup>2</sup>*Czech Hydrometeorological Institute, Tušimice Observatory, CZ*; <sup>3</sup>*Power Plant Chvaletice, CZ*): ADVANCED METHODS FOR REDUCING, MEASUREMENT AND MODELING OF THE MICROPARTICLES DISPERSION FROM LARGE SOURCES, DATA ANALYSIS

**10.35 – 10.55 Á. Bálint<sup>1</sup>, G. Bernvalner<sup>2</sup>, V. Kalcsó<sup>2</sup>, C. Mészáros<sup>3</sup>** (<sup>1</sup>*Óbuda University, Budapest, HU*; <sup>2</sup>*Szent István University, Gödöllő, HU*; <sup>3</sup>*Hungarian University of Agricultural and Life Sciences, Gödöllő, HU*): STUDY OF THE EFFECTS OF ACID RAIN AND HEAVY METAL POLLUTION ON GARDEN CRESS (*LEPIDIUM SATIVUM*)

**10.55 – 11.10 A-I. Stoica** (*University of Natural Resources and Life Sciences, Vienna, AT*): THE INFLUENCE OF GOLD MINING INDUSTRY ON THE ENVIRONMENTAL POLLUTION - A CASE STUDY ON ROSIA MONTANA ECOSYSTEM

**11.20 -12.15 PLENARY SESSION S7: SOIL AND OTHER ANALYSES**

**11.20 – 11.40 J. Zawadzki** (*Warsaw University of Technology, Warszawa, PL*): USING BAYESIAN KRIGING TO ESTIMATE SOIL SURFACE MAGNETIC SUSCEPTIBILITY AT THE LOCAL SCALE

**11.40 – 11.55 T. Tõnutare<sup>1</sup>, K. Krestein<sup>1</sup>, R. Kõlli<sup>1</sup>, K. Vennik<sup>2</sup>, T. Tõnutare<sup>1</sup>** (<sup>1</sup>*Estonian University of Life Sciences, Soil Science Chair, Tartu, EE*; <sup>2</sup>*Estonian Military Academy, Tartu, EE*): COMPARISON OF SOIL P CONTENT DETERMINED BY H3A, AL AND MEHLICH 3 METHODS

**12.00 - 12.15 T. Schoenfelder** (*Atmoterm S.A., Opole, PL*): AN INNOVATIVE PLATFORM FOR ENVIRONMENTAL PROTECTION MANAGEMENT ENABLING ANALYSIS OF MULTIDIMENSIONAL DATA, THEIR MODELING AND PREDICTION” AS A TOOL TO SUPPORT PLANNING EFFECTIVE ACTIVITIES AS A RESULT OF DETECTING POLLUTION AND ITS SOURCES AND MAKING FORECASTS AND SIMULATIONS

**13.00 - 14.30 LUNCH**

**14.30 - 18.00 Posters of POSTER SESSION PS 1 are available for examination and discussion**

**15.00 – 18.00 SECTION S IV**

**15.00 - 16.30 PLENARY SESSION S8: ENERGY: HISTORY AND FUTURE**

**15.00 – 16.00 Zbigniew A. SZYDŁO** (*Highgate School, London, UK*): CHEMICAL ELECTRICITY

**16.00 – 16.30 Stanisław LEDAKOWICZ** (*Łódź University of Technology, Łódź, PL*): FROM BIOFUELS TO HIGH ADDED VALUE PRODUCTS OF 3-rd GENERATION BIOREFINERIES

**16.30 – 16.45 COFFEE AND TEA BREAK**

**16.45 – 17.55 POSTER SESSION PS 1 INCLUDING POSTERS OF FORUM OF YOUNG SCIENCE (FYS)**

**17.55 Announcement of verdicts of award by the Jury for the best presentations of FYS**

**18.00 Maria WACŁAWEK<sup>1,2</sup>** (<sup>1</sup>*Ecological Chemistry and Engineering Society, Opole, PL*; <sup>2</sup>*European Academy of Sciences and Arts, Salzburg, AT*): **Closing of the Conference**

**19.30 SOCIAL EVENING**

**SATURDAY, 22<sup>nd</sup> October 2022**

**7.00 - 9.30 BREAKFAST**