

**MINISTRY OF EDUCATION**  
**“AUREL VLAICU” UNIVERSITY OF ARAD**  
**FACULTY OF FOOD ENGINEERING, TOURISM AND**  
**ENVIRONMENTAL PROTECTION**

**310330 Arad, Str. Elena Drăgoi, Nr. 2-4, Arad**

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**PhD STUDENTS' DAYS**

**FACULTY OF FOOD ENGINEERING, TOURISM AND**  
**ENVIRONMENTAL PROTECTION**

**PROGRAM**

**The Second Edition, November 25-26, 2022**

**ARAD, ROMANIA**

# **PhD STUDENTS' DAYS**

## **FACULTY OF FOOD ENGINEERING, TOURISM AND ENVIRONMENTAL PROTECTION “AUREL VLAICU” UNIVERSITY OF ARAD**

**The Second Edition, November 25, 2022**

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Senior Researcher Elisabeta I. SZERB, “Coriolan Dragulescu” Institute of Chemistry, Timișoara, Romania

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Assoc. Prof./Docent Dr. Salme TIMMUSK, Uppsala BioCenter, SLU, Sweden

Prof. Dr. Hab. Simona Ioana VICĂȘ, University of Oradea, Romania

# PhD STUDENTS' DAYS

## FACULTY OF FOOD ENGINEERING, TOURISM AND ENVIRONMENTAL PROTECTION "AUREL VLAICU" UNIVERSITY OF ARAD

**The Second Edition, November 25-26, 2022**

### PROGRAM

**LOCATION:** "Aurel Vlaicu" University of Arad, building M, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi Str., no. 2-4, 134, Code 310 330, Arad.

**Zoom:** Topic: PhD STUDENTS' DAYS

Time: Nov 25, 2022 10:00 AM Athens

Join Zoom Meeting

<https://us06web.zoom.us/j/85392702077?pwd=QXUrS05kNXZld24rT0FVUm5sWU1LQT09>

Meeting ID: 853 9270 2077

Passcode: FIATPM

### Friday, November 25, 2022

- 9.00-10.00 Registration of the participants  
Visit of the Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University of Arad**
- 10.00-10.20 WELCOME SPEECH / DESCHIDEREA OFICIALA A EVENIMENTULUI**  
Rector of „Aurel Vlaicu” University of Arad: Dr. Ramona Lile  
Vicerector of „Aurel Vlaicu” University of Arad: Prof. Dr. Eng. Alexandru Popa,  
Vicerector of „Aurel Vlaicu” University of Arad: Prof. Dr. Codruta Stoica  
Dean of Faculty of Food Engineering, Tourism and Environmental Protection: Assoc. Prof. Dr. Eng. Virgiliu Ciutina  
Director of Școala Doctorală Interdisciplinară (ȘDI) of „Aurel Vlaicu” University of Arad: Prof.dr.habil. Florentina Munteanu  
Research responsible of Department of Technical and Natural Sciences: Prof. Dr. Habil. Dana Maria Copolovici

## SECTION I

**Environmental Science and Engineering**

**Environmental Protection**

**Biodiversity, Ecology, Plant Physiology**

**Health, Medicine, Pharmacy**

**Biology, Applied Biology, Biochemistry**

**Chairman: Prof. dr. habil. Lucian Copolovici**

**Prof. dr. habil. Florentina Munteanu**

**Prof. dr. habil. Dorina Chambre**

- 10.20-10.30 ESTIMATING METHANE EMISSIONS FROM DIFFERENT LAND-USE TYPES IN THE URBAN AREA  
OP 1 Mustafa Hmoudah, Cristian Pop, Călin Baciu  
Babeş-Bolyai University, Romania
- 10.30-10.40 THE VULNERABILITY OF LIMESTONE AND MARBLE FROM HERITAGE STRUCTURES TO THE  
OP 2 ACTION OF ACID PRECIPITATION  
Lorena Aliana Cioban, Dorina Rodica Chambre  
Aurel Vlaicu University, Arad, Romania
- 10.40-10.50 REMOVAL OF ACID ORANGE 7 FROM AQUEOUS SOLUTION BY MAGNETIC  
OP 3 NANOCOMPOSITE: OPTIMIZATION PROCESS STUDY  
Maria Andreea Nistor, Simona Gabriela Muntean, Liliana Halip, Otilia Costişor  
"Coriolan Dragulescu" Institute of Chemistry, Timișoara, Romania
- 10.50-11.00 ECHINACEA PURPUREA (L.) MOENCH - ANTIOXIDANT ACTIVITY  
OP 4 Cristina Burlou-Nagy, Florin Banica, Monica Foghis, Annamaria Pallag  
University of Oradea, Oradea, Romania
- 11.00-11.10 THE CAPACITY OF WOOL FIBRE TO ABSORB HEAVY METALS AND VALORIFICATION OF  
OP 5 SHEEP WOOL THROUGH THIS  
Bianca-Denisa CHEREJI, Florentina-Daniela MUNTEANU  
"Aurel Vlaicu" University, Arad, Romania
- 11.10-11.20 ABIOTIC STRESS IN THE VITACEAE FAMILY – A REVIEW  
OP 6 Simona Chişmore and Lucian Copolovici  
"Aurel Vlaicu" University, Arad, Romania
- 11.20-11.30 STUDY OF PHOTOCATALYTIC DYE-DEGRADATION BY CU NANOPARTICLES BLEND  
OP 7 Edison Paredes, David Wragg, Erwan Rauwel, Protima Rauwel  
Estonian University of Life Sciences, Tartu, Estonia  
University of Oslo, Oslo, Norway
- 11.30-11.40 THE COMPARISON BETWEEN IN-SITU MONITORING DATA AND MODELLED RESULTS OF  
OP 8 PARTICULATE MATTER (PM10) FOR ENVIRONMENTAL RISK ASSESSMENT: STUDY CASE,  
THE CLOSED MOLDOVA NOUĂ TAILINGS PONDS - ROMANIA  
Irakunda Elisephane, Zoltán Török, Alexandru Ozunu  
Babeş-Bolyai University
- 11.40-11.50 STUDY OF THE TIMIŞ-BEGA RIVER BASIN IN TERMS OF WATER QUALITY  
OP 9 Florina Burescu, Florentina-Daniela Munteanu  
"Aurel Vlaicu" University, Arad, Romania
- 12.00-12.30 Coffee break / Pauza de cafea**
- 12.30-12.40 COMPARATIVE STUDY OF THE POLLUTION SITUATION IN THE WATER BASINS OF MURES,  
OP 10 OLT AND SIRET  
Elena Violeta Monea (Blidar), Florentina-Daniela Munteanu  
"Aurel Vlaicu" University, Arad, Romania

- 12.40-12.50 STUDIES ON THE ENVIRONMENTAL IMPACT OF SURFACE TREATMENT PROCESSES  
OP 11 Norica Godja, Florentina-Daniela Munteanu  
"Aurel Vlaicu" University, Arad, Romania
- 12.50-13.00 OPTICAL PROPERTIES OF BIOSYNTHESIZED ZnO NANOPARTICLES USING THUJA TINTCURE  
OP 12 Keshav Nagpal, Erwan Rauwel, Protima Rauwel  
Estonian University of Life Sciences, Tartu, Estonia
- 13.10-13.20 CELL-PENETRATING PEPTIDES: MECHANISMS AND APPLICATIONS  
OP 13 Ana-Maria Tolos, Dana Maria Copolovici  
"Aurel Vlaicu" University of Arad, Romania;  
University of Oradea, Romania
- 13.20-13.30 PEPTIDES APPLICATIONS IN BIOMEDICINE  
OP 14 Andreea Gostăviceanu, Dana Maria Copolovici  
University of Oradea, Oradea, România  
"Aurel Vlaicu" University of Arad, România
- 13.30-13.40 APPLICATION OF CYTOSMART LUX3 BR MICROSCOPE FOR EVALUATION OF  
OP 15 PROLIFERATION AND MIGRATION OF FIBROBLASTS  
Adriana Ramona Memete<sup>1</sup>, Simona Ioana Vicas  
University of Oradea, Oradea, Romania
- 13.40-13.50 SOURCE-RELATED RISK ASSESSMENT FOR HEAVY METALS IN SOIL ON THE SITE OF A  
OP 16 HYDROCARBON HEATING POWER PLANT  
Ramona Carmen HĂRȚĂU, Florentina –Daniela MUNTEANU  
"Aurel Vlaicu" University of Arad, Romania
- 13.50-14.00 A REVIEW OF THE PHYTOCHEMICAL COMPOSITION AND PHARMACOLOGICAL EFFECTS OF  
OP 17 PLANTS OF THE GENUS *SANGUISORBA*  
Alexandra Cristina Tocai (Moțoc), Simona Ioana Vicaș  
University of Oradea, Romania
- 14.00-14.10 A LONG-TERM MONITORING OF VOLATILE ORGANIC COMPOUNDS, PARTICULATE MATTER,  
OP 18 CARBON DIOXIDE, AND FORMALDEHYDE IN A GENERAL SHOP  
Andreea Maria Tepeneu (Popa), Lucian Copolovici  
Aurel Vlaicu University, Arad, Romania
- 14.10-14.20 STUDIES ON THE ANIMAL FOOD AND VEGETALWASTE PRODUCTION IN EUROPEAN  
OP 19 COUNTRIES  
Mirabela-Elena RAȚ (BOTICI), Florentina-Daniela MUNTEANU  
Aurel Vlaicu University, Arad, Romania
- 14.10-15.10 LUNCH / PRANZUL**

**SECTION II**  
**Food Technology**  
**Food Engineering**  
**Food Chemistry, Nutrition**  
**Food Quality and Food Security**  
**Agrotourism Management**  
**Sustainability, Bioeconomy**

**Chairman: Prof. dr. habil. Gabriela Râpeanu**  
**Prof. dr. habil. Simona Ioana Vicaș**  
**Prof. dr. habil. Dana Copolovici**

- 15.10-15.20  
OP1 DETERMINATION OF THE ANTIBIOTIC RESISTANCE PROFILE OF SOME ESCHERICHIA COLI STRAINS ISOLATED FROM MEAT SAMPLES  
Camelia-Ioana Ignătescu, Adriana Dalila Criste  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- 15.20-15.30  
OP2 EVOLUTION OF THE PHENOLIC COMPOUNDS BY MICROENCAPSULATION AND NANOENCAPSULATION OF OLIVE LEAF EXTRACT IN BISCUITS DURING GASTROINTESTINAL DIGESTION  
Călina Ciont (Nagy), Oana Lelia Pop, Dan Cristian Vodnar  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- 15.30-15.40  
OP3 SUSTAINABLE NANOCARRIERS FOR EDIBLE MATERIALS DEVELOPMENT  
Mihaela Ștefana PĂȘCUȚĂ (CANALIS) and Dan Cristian VODNAR  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Cluj-Napoca, Romania
- 15.40-15.50  
OP4 OPTIMIZATION OF THE METHOD OF FORMING NANO-EMULSIONS AND THEIR CHARACTERIZATION  
Mădălina Lorena MEDELEANU, Anca Corina FĂRCAȘ, Loredana LEOPOLD, Cristina COMAN, Sonia Ancuța SOCACI  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- 15.50-16.00  
OP5 PRELIMINARY RESULTS ON THE RECOVERY OF COENZYME Q10 FROM VEGETABLE AND ANIMAL WASTE  
Andersina Simina Podar, Cristina Anamaria Semeniuc, Floricuța Ranga, Maria-Ioana Socaciu, Melinda Fogarasi, Anca Corina Fărcaș, Dan Cristian Vodnar, Simona Raluca Ionescu, Sonia Ancuța Socaci  
University of Agricultural Sciences and Veterinary Medicine from Cluj-Napoca, Cluj-Napoca, Romania  
Centre for Technology Transfer-BioTech, Cluj-Napoca, Romania
- 16.00-16.10  
OP6 GOLD NANOPARTICLES SYNTHESIS FROM LAVENDER BIOMASS AS A SUSTAINABLE RESOURCE  
Cristina POPA, Cristian MOISA, Andreea I. LUPITU, Dorina CHAMBRE, Lucian COPOLOVICI, Dana Maria COPOLOVICI  
University of Oradea, Oradea, Romania  
“Aurel Vlaicu” University of Arad, Arad, Romania

**POSTER PRESENTATION / PREZENTARE POSTERE**  
**16.10-17.00**

- PP1 BIOECONOMICAL VALORIZATION OF EGGPLANT PEEL ANTHOCYANINS AND WHEY PROTEINS  
Nina Nicoleta Condurache (Lazăr), Gabriela Râpeanu  
Dunarea de Jos University of Galati, Romania
- PP2 SUSTAINABLE USE OF ONION SKINS FOR THE DEVELOPMENT OF INNOVATIVE FUNCTIONAL INGREDIENTS  
Ștefania-Adelina Milea, Nicoleta Stănciuc  
Dunarea de Jos University of Galati, Romania

- PP3 THE INFLUENCE OF DIFFERENT PARAMETERS DURING THE MACERATION OF FETEASCA NEAGRA VAR. GRAPES  
Bocăneală Bogdan, Gabriela Râpeanu, Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu  
Dunarea de Jos University of Galati, Romania
- PP4 THE INFLUENCE OF THE MACERATION TEMPERATURE ON THE QUALITY OF WHITE WINES (ȘARBA VARIETY)  
Mihaela Manuela Hozoc (Nedelcu), Gabriela Rapeanu, Nicoleta Stanciuc, Georgiana Horincar, Iuliana Aprodu, Gabriela Elena Bahrim  
Dunarea de Jos University of Galati, Romania
- PP5 HERITAGE BUILDINGS PRESERVATION- THE CASE OF BRASOV MEDIEVAL CITY, ROMANIA  
Alexandru Bogdan, Lucian Copolovici  
“Aurel Vlaicu” University, Arad, Romania
- PP6 GLYCOLIPIDS BIOMARKERS DISCOVERY OF HUMAN TEMPORAL LOBE EPILEPSY BY HIGH-RESOLUTION TANDEM MASS SPECTROMETRY  
Raluca Ica, Mirela Sarbu, Svjetlana Kalanj-Bognar, Alina D. Zamfir  
Department of Condensed Matter, National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania;  
West University of Timisoara, Timisoara, Romania;  
Zagreb University, Croatia  
“Aurel Vlaicu” University of Arad, Arad, Romania
- PP7 POLYMORPHISMS IN VDR, CYP2R1, GC GENES AND VITAMIN D DEFICIENCY  
Carmina Mariana Stroia, Maria Vranceanu, Annamaria Pallag  
University of Oradea; Oradea, Romania  
“Iuliu Hațieganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania
- PP8 STUDY OF THE ROLE OF POLYMORPHISMS IN VDR, CYP2R1 AND GC GENES IN THE RESPONSE OF VITAMIN D SUPPLEMENTATION  
Carmina Mariana Stroia, Maria Vranceanu, Annamaria Pallag  
University of Oradea; Oradea, Romania  
“Iuliu Hațieganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania
- PP9 THE INVOLVMENT AND ATTITUDE OF ROMANIAS IN PRO-ENVIROMENTAL ACTIVITIES RELATED TO THE RISK OF MICROPLASTIC PARTICLES  
Valeria POP, Malina Petrescu-Mag, Dacina Crina Petrescu, Alexandru Ozunu  
“Babes-Bolyai” University, Cluj-Napoca, Romania
- PP10 PRETREATMENTS OF CEREAL BRAN TO INCREASE THE CONCENTRATION OF BIOACTIVE COMPOUNDS  
Silvia Amalia NEMES, Lavinia Florina CĂLINOIU, Anca Corina FARCAȘ, Francisc Vasile DULF and Dan Cristian VODNAR  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- PP11 STABILITY OF PHENOLIC COMPOUNDS EXTRACTED FROM APPLE POMACE DURING TYPICAL FOOD PROCESSING  
Diana Plamada, Miriam Arlt, Daniel Güberbock, Robert Sevenich, Clemens Kanzler, , Helena Kieserling, Sascha Rohn, Dan C. Vodnar  
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania,  
Technische Universität Berlin, Berlin, Germany,  
Technische Universität Berlin, Berlin, Germany

**PROJECT ERASMUS+, 2019-3-TR01-KA205-080177- "GREEN THINKING ENTREPRENEUR YOUTH" DISSEMINATION ACTIVITY**

**17.00-17.30 AWARD CEREMONY / CEREMONIA DE PREMIERE  
CLOSING REMARKS / CONCLUZII**

19.00 Dinner

**Saturday, November 26, 2022**

**9.30-** Students Hostel, Ursului Str., Nr.2-4 Arad,

**10.00-** "Aurel Vlaicu" University of Arad, building M, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi Str., no. 2-4, Code 310 330, Arad

**Trip to Parcul Natural Lunca Muresului (aprox. 3-4 hours)**

**We thank the Project ERASMUS+, 2019-3-TR01-KA205-080177-”Green Thinking Entrepreneur Youth” for the provided sponsorships for the best students' awards!**

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**NOTES**

Abbreviations: OP = oral presentation, PP = poster presentation.