

**UNIVERSITY OF ORADEA
FACULTY OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF ANIMAL SCIENCE AND AGRITOURISM
DEPARTMENT OF AGRICULTURE AND HORTICULTURE
UNIVERSITY OF LIFE SCIENCES "KING MIHAI I OF TIMIȘOARA"
FACULTY OF MANAGEMENT AND RURAL TOURISM
UNIVERSITY OF SZEGED
UNIVERSITY OF DEBRECEN
ONE HEALTH ASSOCIATION
ACADEMICIAN NICOLAE MANOLESCU STRUNGA ROMANIA**



**UNIVERSITATEA
DIN ORADEA**
Facultatea de
Protecția Mediului



**INTERNATIONAL STUDENT SYMPOSIUM
"SUSTAINABILITY IN THE ROMANIAN RURAL ENVIRONMENT"
4th edition**

April 11, 2025

Location: Hotel Termal, Victoria Street no. 24, 417500 Băile Felix, Romania

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Alexandra UNGUREANU, PhD - *University Stefan cel Mare of Suceava, Department of Economics*

Student Alexandra-Ioana MICULA - *University of Oradea, Faculty of Environmental Protection*

PROGRAM OF THE CONFERENCE

Friday – April 11, 2025 – Hotel Termal, Băile Felix

09³⁰ - 10⁰⁰ Registration of participants

10⁰⁰ - 10¹⁰ Opening of the conference, Associate Professor **Cristina-Maria MAERESCU** PhD, *Dean of the Faculty of Environmental Protection, University of Oradea*

10¹⁰ - 10²⁰ Associate Professor **Aurel-Vasile CĂUȘ** PhD, *President of the Senate of the University of Oradea*

10²⁰ - 10³⁰ Professor **Tiberiu IANCU** PhD, *Vice-Chancellor University of Life Sciences "KING MIHAI I" Timișoara*

10³⁰ - 10⁴⁰ Professor **Felix ARION** PhD, *University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca*

10⁴⁰ - 10⁵⁰ George OPRIȘ, Lăcrimioara ȘANDRO, Alin PANTI, Ioana IOVA, Simona-Ioana VICAȘ – **APHRODITE - AN INNOVATIVE DESSERT**

10⁵⁰ – 11⁰⁰ Estera DUCA, Simona-Ioana VICAȘ – **THE INFLUENCE OF ACTIVATED SLUDGE ON GERMINATION, GROWTH DEVELOPMENT AND BIOCHEMICAL PARAMETERS OF TOMATO SEEDLINGS (*LYCOPERSICON ESCULENTUM*)**

11⁰⁰ – 11¹⁰ Anthony MAGHIARI, Teodora ANTON, Gheorghe DONCA – **ASPECTS OF DRONE USAGE BY ROMANIAN FARMERS FOR ENHANCING AGRICULTURAL SUSTAINABILITY**

11¹⁰ – 11²⁰ Daiana BOCU, Alin PANTI, Alin-Ioan SURU, Cristian-Gabriel DOMUȚA, Gheorghe DONCA – **AI-DRIVEN IRRIGATION - THE PATH TOWARDS SMART IRRIGATION SYSTEMS TO ENSURE AGRICULTURAL SUSTAINABILITY**

11²⁰ – 11³⁰ Octavian BERCHEZ, Raul-Marian BELEȘ, Giulia TELEPTEAN, Amarillis LAZĂR – **VEGETATION CONDITIONS OF AGRICULTURAL CROPS IN THE BIHARIA PLAIN**

11³⁰ – 12⁰⁰ **Coffee Break**

Section 1 – Management, marketing, economy and rural development, accounting and legislation

Moderators:

Associate Professor Ramona-Vasilica BACTER, PhD

Associate Professor Aurelia-Ioana CHEREJI, PhD

Lecturer Alina-Emilia-Maria GHERDAN, PhD

Lecturer Ioana-Camelia CHEBELEU, PhD

12⁰⁰ – 12¹⁰ Ștefania-Andreea BĂCILĂ, Adina-Patricia-Mărioara CRISTA, Marinela-Alina MOCIAN, Ciprian-Ioan RUJESCU, Ioana-Anda MILIN – **DETERMINING AN OPTIMAL ROUTE FOR VISITATION OF TOURIST OBJECTIVES IN TIMIȘ COUNTY**

12¹⁰ – 12²⁰ Patric-Beniamin BALȘ, Silviu-Ștefan BORCA, Alexandru-Iustin GHEORGHE, Vlăduț-Cătălin PONTA, Anka-Roxana PASCARIU – **AI-POWERED COMMUNICATION FOR SUSTAINABLE FARMING**

12²⁰ – 12³⁰ Adina ȘAITIȘ, Felix ARION – **PROSPECTS FOR DEVELOPMENT OF RURAL COMMUNITIES THROUGH LEADER - CASE STUDY GAL NAPOCA POROLISSUM**

12³⁰ – 12⁴⁰ Tudor-Cristian POPESCU, Felix ARION – **DIGITALIZATION OF THE TOURISM SERVICES BOOKING PROCESS - GENERATION Z PREFERENCES**

12⁴⁰ – 12⁵⁰ Luminița DIGORI, Felix ARION – **STUDY ON CONSUMER PERCEPTION OF A MOLDOVAN CONFECTIONERY IN CLUJ-NAPOCA**

12⁵⁰ – 13⁰⁰ Bianca-Maria GÂVAN, Irina-Morar, Iulia ARION, Alina TRUȚA – **PHENOTYPICAL ANALYSIS OF DECIDUAL LARIX CONES AND SEEDS FROM THE BACIU PLANTATION, CLUJ-NAPOCA - ESSENTIAL ASPECTS FOR GENETIC SELECTION AND CONSERVATION**

13⁰⁰ – 13¹⁰ Xu ZHAI, Felix ARION – **HERITAGE BITES**

13¹⁰ – 13²⁰ Zijuan ZHANG, Felix Arion – [NOMNOM STREET](#)
 13²⁰ – 13³⁰ Yao WU, Felix ARION – [SOLUTIONS FOR HOME CREATIONS](#)
 13⁴⁰ – 13⁵⁰ Dhaneswaran TAMILVANAN, Felix ARION – [BY PRODUCTS USED IN INDUSTRY - SIDE KICKS](#)
 13⁵⁰ – 14⁰⁰ Nathan LION, Felix ARION – [A TASTE OF THE WORLD - CULINARY JOURNEYS ACROSS CULTURES](#)
 14⁰⁰ – 14¹⁰ Sharan RAJAN, Felix ARION – [ORGANIC VENDING MACHINE](#)
 14¹⁰ – 14²⁰ Kessara SANMONGKOL, Felix ARION – [GRASS-FED SEDUCTION – THE FLAVOR YOU CAN'T RESIST](#)
 14²⁰ – 14³⁰ Florian PRIGENT, Felix ARION – [TRUETASTE CENTRE - THE SHOP FOR DESIGNATED FOOD](#)
 14³⁰ – 14⁴⁰ Marie PLOUGOULEN, Felix ARION – [FLAVORS OF THE WORLD - THE GLOBAL CUISINE FESTIVAL](#)
 14⁴⁰ – 14⁵⁰ César TRUJILLO, Felix ARION – [GASTROGRAPHY - DO IT YOURSELF](#)
 14⁵⁰ – 15⁰⁰ Chaima KHALIL, Felix ARION – [FARMFAB 3D PRINTED FOOD](#)
 15⁰⁰ – 15¹⁰ YuanYuan ZHOU, Felix ARION – [PRESERVING TERROIR, PROTECTING HERITAGE: A MULTIDISCIPLINARY FRAMEWORK FOR PDO/PGI CERTIFICATION OF ROMANIAN CAVE-AGED CHEESE](#)
 15²⁰ – 15³⁰ Dorel-Aurel CHIFOR, Călin-Ionuț ARDELEAN, Delia-Renata MELUȚ, Adelina VENIG, Aurora VENIG – [QUALITY MANAGEMENT OF LETTUCE MANAGEMENT IN PROTECTED AREAS UNDER THE INFLUENCE OF ABIOTIC FACTORS](#)
 15³⁰ – 15⁴⁰ Alexia-Anamaria MATEI, Natalia-Mariana LASAC, Dorotheea DUME, Ioana-Camelia CHEBELEU – [EVOLUTION OF LEGISLATION IN THE AGRICULTURAL FIELD IN ROMANIA IN THE PERIOD 1990-2025](#)
 15⁴⁰ – 15⁵⁰ Ioana-Alexandra MICULA, Iulia-Delia LUCA, Anca-Iulia DUDAȘ-GĂLĂȘEL – [A STRATEGIC COMPARATIVE ANALYSIS OF ONLINE MARKETING GROWTH](#)

Poster section

1. Gabriela-Maria VĂRĂDIAN, Andreea VELICI, Ioana-Anda MILIN, Elena-Claudia SÎRBULESCU – [FINANCING SOLUTIONS FOR STUDENTS AND YOUNG PEOPLE](#)
2. Ramona-Teodora NAICE, Petronela-Nicoleta MARE, Tania-Ștefania CHIS, Despina-Maria BORDEAN, Luminița-Cornelia PÎRVULESCU – [STUDY REGARDING ANALYSIS OF THE MEAT PRODUCTS QUALITY](#)
3. Timeea CARAGENA, Lorena LUPEI, Natalia LASAC, Alexia-Anamaria MATEI, Diana-Nicoleta RABA, Luminița-Cornelia PÎRVULESCU – [BANAT AND CRISANA - A CULINARY MOSAIC OF HISTORICAL INFLUENCES](#)
4. Carlo-Marius DRAGOMIR, Alina-Valentina ARSI, Robert-Daniel NEAGU, Luminița-Cornelia PÎRVULESCU, Diana Nicoleta RABA – [THE IMPACT OF VARIOUS THERMAL PROCESSING TECHNIQUES ON THE SENSORY AND PHYSICOCHEMICAL ATTRIBUTES OF SELECTED CRUCIFEROUS VEGETABLES](#)
5. Dariana-Elena POPA, Ionela-Manuela CERB, Angela PETERI, Andrea FEHER, Elena, Claudia SÎRBULESCU – [ANALYSIS OF NEW LOANS GRANTED BY THE CREDIT INSTITUTIONS TO THE POPULATION IN ROMANIA](#)
6. Angela PETERI, Dariana-Elena POPA, Ionela-Manuela CERB, Luminița-Cornelia PÎRVULESCU, Elena-Claudia SÎRBULESCU – [EXPLORATION OF INTEREST RATES ON LOANS OFFERED BY CREDIT INSTITUTIONS](#)
7. Sergiu-Constantin DELAN, Mihai-Ștefan GHERHEȘ, Fabio-Alexandru NEAGU-CORICI, Constanța-Corina SÎRBU, Elena-Claudia SÎRBULESCU – [SOLUTIONS FOR AGRICULTURAL FINANCING OFFERED BY THE ROMANIAN BANKING SYSTEM](#)
8. Mihaela LĂCĂTUȘ, Patricia TARKANYI, Silvia STOIA, Luminița-Cornelia PÎRVULESCU – [HARNESSING THE POWER OF WILD EDIBLES - HOW INVASIVE WEEDS CAN HELP FIGHT MALNUTRITION](#)
9. Patricia TARKANYI, Mihaela LĂCĂTUȘ, Luminița-Cornelia PÎRVULESCU, Georgeta-Sofia POPESCU, Laura RĂDULESCU, Despina-Maria BORDEAN – [THE MULTIFUNCTIONAL ROLE OF STINGING AND DEAD NETTLES IN SUSTAINABLE AGROECOSYSTEMS](#)

10. Anka-Roxana PASCARIU, Ana ȘUBA, Mihaela IANCU, Dragoș CHENDE, Iasmina IOSIM, Tiberiu IANCU – [INNOVATIVE COMMUNICATION SOLUTIONS IN AGRICULTURE USING ARTIFICIAL INTELLIGENCE](#)
11. Anastasia MURARI, Gabriel ȘUSTER, Cosmina-Simona TOADER – [THE TOURIST IMAGE OF HUNEDOARA COUNTY - AN ASSESSMENT OF TOURISTS PERCEPTIONS](#)
12. Marius-Ionuț GORDAN, Tiberiu IANCU, Tabita-Cornelia ADAMOV, Elena PEȚ, Ioana-Anda MILIN – [A COMPARATIVE ANALYSIS OF AGRITOURISM DEVELOPMENT IN ROMANIAS WEST AND NORTH-WEST REGIONS - TRENDS, CHALLENGES AND OPPORTUNITIES](#)
13. Larisa-Elena BRISCAN, Theodor MUNTEAN, Ramona CIOLAC, Tabita-Cornelia ADAMOV – [THE IMPACT OF THE BANAT BRUNCH EVENT ON THE DEVELOPMENT OF AGRITOURISM IN THE SILAGIU HILLS AND THE NITCHIDORF AREA](#)
14. Theodor MUNTEAN, Larisa-Elena BRISCAN, Tiberiu IANCU, Tabita-Cornelia ADAMOV – [INNOVATIVE STRATEGIES FOR SUSTAINABLE RURAL DEVELOPMENT IN ROMANIA](#)
15. Andrei RUSU, Anamaria-Roxana MARTIN, Nicoleta MATEOC-SÎRB, Tabita-Cornelia ADAMOV – [THE ROLE OF AGRICULTURAL HOLDINGS IN THE TRANSITION TO SUSTAINABLE DEVELOPMENT IN ROMANIA](#)
16. Dragoș-Ciprian CHENDE, Anka-Roxana PASCARIU, Camelia MĂNESCU, Tabita-Cornelia ADAMOV, Ioana-Anda MILIN – [THE IMPLICATIONS OF AGRITOURISM IN THE DEVELOPMENT OF RURAL COMMUNITIES](#)
17. Daniela MARINA, Anca-Lilieta RUS, Ramona CIOLAC, Diana MARIN – [IDENTIFYING FORMS OF TOURISM THAT CAN BE PRACTICED IN THE AREA OF THE AZORES ISLANDS, PORTUGAL](#)
18. Vlăduț-Cătălin PONTA, Antonio-Ștefan GNANDT, Patric-Beniamin BALȘ, Silviu BORCA, Anka-Roxana PASCARIU – [AUTOMATION IN AGRICULTURE WITH AI AND COMMUNICATION](#)
19. Daniela-Roxana LUPU, Leone-Iulian MIHAI, Dragoș-Ciprian CHENDE, Tabita-Cornelia ADAMOV, Camelia MĂNESCU – [SUSTAINABLE RURAL TOURISM - VECTOR OF ECONOMIC REVITALIZATION AND CULTURAL HERITAGE PRESERVATION IN THE ROMANIAN RURAL SPACE](#)
20. Marius-Cristian BOSTAN, Cristina SIMEANU – [DYNAMIC ANALYSIS OF CULTURAL TOURISM DEMAND IN SUCEAVA COUNTY DURING THE PERIOD 2013-2022](#)
21. Vanessa TODEA, Ioana-Camelia CHEBELEU – [ART NOVEAU IN ORADEA SEEN AS A EUROPEAN TOURISTIC CITY](#)
22. Teodora-Maria ZOB, Paula-Nicola COSTINAR, Patricia MOLDOVAN, Ioana-Camelia CHEBELEU, Mircea CHEBELEU – [LEGISLATIVE EVOLUTION IN THE FORESTRY FIELD IN THE PERIOD 2000-2025 IN ROMANIA](#)
23. Andra TĂUT, Ioana-Camelia CHEBELEU – [BANKRUPTCY AND INSOLVENCY OF COMMERCIAL COMPANIES](#)
24. Andrada PASCAR, Valentin COPĂCIAN, Andrea BĂLIBAN, Alina-Emilia-Maria GHERDAN, Ramona-Vasilica BACTER – [STUDY ON THE SITUATION OF WHEAT PRODUCTION IN THE WESTERN PART OF ROMANIA AND IN BIHOR COUNTY](#)
25. Flavia SABO, Andrea RUS, Adelina GHERMAN, Alina-Emilia-Maria GHERDAN, Ramona-Vasilica BACTER – [FROM THE CULTIVATED AREA TO THE PRODUCTION OF SUNFLOWER AND COLD-PRESSED OIL IN AN AGRICULTURAL COMPANY IN SĂLAJ COUNTY](#)
26. Andrea-Maria KOVACS, Călin Gheorghe PĂȘCUȚ, Alexandra UNGUREANU, Alina-Emilia-Maria GHERDAN, Ramona-Vasilica BACTER – [CAPITALIZING ON LOCAL AUTHENTICITY WITHIN AGRITOURISM PROGRAMS](#)

27. Alex-Tiberius OANCEA, David-Ovidiu POPA, Gheorghe-Marian COVRIG, Elena COZAC – [ECOLOGICAL PROBLEMS THAT CAN NEGATIVELY INFLUENCE THE PRACTICE OF MOUNTAIN TOURISM IN ROMANIA](#)
28. Bianca NISTOR, Iulia SZABO, Alina-Emilia-Maria GHERDAN, Ariana OAIE, Tibor-Zsolt CZIRJAK – [ECONOMIC DEVELOPMENT IN MOUNTAIN AREAS THROUGH SPECIFIC ACTIVITIES - CASE STUDY PEȘTERA LOCALITY - BRAȘOV COUNTY](#)
29. Melisa CUC, Natalia CUC, Arina VID, Anca BRATA, Ramona-Vasilica BACTER – [LOGO, BRAND OF A COMPANY WITH ACTIVITY IN TOURISM AND PUBLIC FOOD](#)
30. Dana-Valeria BONCA, Călin-Florin BACTER, Elena-Manuela CLIMPE, Mirela-Salvia CASĂU-CRAINIC, Ramona-Vasilica BACTER – [THE IMPACT OF PROFESSIONAL TRAINING ON LABOR MARKET INSERTION IN THE SPA TOURISM SECTOR](#)
31. Magdalena DAN, Linda-Emilia SEBESTIEN, Ioana IOVA, Anca-Iulia DUDAȘ-GĂLĂȘEL, Mirela-Salvia CASĂU-CRAINIC, Aurelia-Ioana CHEREJI – [STRATEGIES FOR THE DIVERSIFICATION OF ECONOMIC ACTIVITIES TO IMPROVE THE FINANCIAL PERFORMANCE OF THE ROUA MUNTELUI, BAIA DE ARIEȘ, ALBA COUNTY, ROMANIA](#)
32. Alin BODOG, Ciprian ȚARĂU, Monica-Angelica DODU, Cristina-Maria MAERESCU, Aurelia-Ioana CHEREJI – [THE EVOLUTION OF THE LIVESTOCK SECTOR IN ALBA COUNTY BETWEEN 2019 AND 2023 AND FINANCIAL SUPPORT PROSPECTS UNDER THE CAP STRATEGIC PLAN 2023–2027](#)
33. Daniela DANA, Tudor MIHAI, Ana-Maria CĂLIN, Carmen-Ionela CECAN, Maria-Valentina-Cristiana DUMITRA, Maria-Tereza FIERARU – [CHARACTERIZATION OF THE STAGNANT LUVOSOL FROM THE PREAJBA GORJ EXPERIMENTAL CENTER](#)
34. Alin-Andrei LADĂR, Monica-Angelica DODU, Tănase-Călin LADĂR – [THE ROLE OF RARE EARTHS IN THE FUTURE SUSTAINABLE ECONOMY](#)
35. Armin-Raoul TĂUT, Katia-Maria ȘUPIALĂ, Andra-Renate TĂUT, Adela-Olimpia VENTER – [THE INFLUENCE OF ARTIFICIAL INTELLIGENCE ON SPORTS AND HEALTH](#)
36. Natalia Mariana LASAC, Teodora Maria ZOB, Florin Denis BOROȘ, Adela Olimpia VENTER – [ARTIFICIAL INTELLIGENCE IN THE HOTEL INDUSTRY, CASE STUDY IN CHINA, JAPAN, USA AND SOUTH KOREA](#)
37. Rebeca Claudia CHIRILĂ, Ramona Vasilica BACTER, Iulia Cristina MUREȘAN - [KEY PERFORMANCE INDICATORS FOR ASSESSING ECONOMIC DIVERSIFICATION](#)

Section 2 – Agriculture and horticulture

Moderators:

Associate Professor Adelina VENIG, PhD

Associate Professor Cristian-Gabriel DOMUȚA, PhD

Lecturer Alina-Ștefania STANCIU, PhD

Lecturer Octavian BERCHEZ, PhD

Poster section

38. Iuliana-Teodora VIDICAN, Iulia-Andrada IENCIU, Oana-Maria VIDICAN – [STUDY OF COLOR IN LANDSCAPING](#)
39. Ioana-Teodora STANCIU, Gerko KOTYESZ, Balasz HEGYI, Iulia CĂIMAN, Alina-Ștefania STANCIU – [CONTRIBUTIONS TO THE EVALUATION OF THE PRODUCTIVITY OF PERMANENT GRASSLANDS FROM THE AREA OF BRATCA \(BIHOR COUNTY\)](#)

Section 3 – Animal Science

Moderators:

Associate Professor Cristina-Maria MAERESCU, PhD

Professor Habil. Daniel MIERLIȚĂ, PhD

Lecturer Monica-Angelica DODU, PhD

Lecturer Codrin GAVRA, PhD

Poster section

38. Zsolt BIRINYI, Daniel MIERLIȚĂ – FORMULATION OF MANUFACTURING RECIPES IN THE COMPOUND FEED INDUSTRY USING HYBRIMIN® FUTTER 5 SOFTWARE
39. Ștefan BRAD, Daniel MIERLIȚĂ – ASSESSMENT OF THE SAFETY OF FOODS DERIVED FROM GENETICALLY MODIFIED ORGANISMS (GMOS) AND HUMAN BIOSECURITY
40. Anca PITICARI, Codrin GAVRA – STUDY ON THE PASTORAL VALUE OF THE GRASSLANDS LOCATED IN THE SALONTA PLAIN (BIHOR COUNTY)
41. Johanna KULCSAR, Armin-Raoul TĂUT, Andrea-Corina DOGAR, Monica-Angelica DODU, Florin LUP – STUDY OF PRODUCTIVE INDICES IN A POPULATION OF TURKEYS FROM THE WESTERN PART OF THE COUNTRY
42. Ariana OAIE, Raluca POPOVICI – LABORATORY DIAGNOSIS OF URINARY TRACT INFECTIONS CAUSED BY E. COLI
43. Johanna KULCSAR, Corina BALDEA – LABORATORY DIAGNOSIS OF URINARY TRACT INFECTIONS CAUSED BY KLEBSIELLA
44. Adrienn BITÓ – CUSTOM DEVELOPED SOFTWARE FOR THE COLLECTION OF USED COOKING OIL
45. Gréta ÚJVÁRI – COULD SUPPLEMENTATION BE SUSTAINABLE?
46. Dalma DEÁK, Balázs ÜRÖGI – SUSTAINABILITY IN ENGINEERING EDUCATION - PET BOTTLE RECYCLING
47. Léna BARLOG – PLASTICS IN THE OCEAN
48. Levente BARTALIS – LACK OF FEEDBACK AND COMMUNICATION AS THE MAIN CAUSES OF NEGATIVE WORKPLACE ATMOSPHERE IN LABORATORIES
49. Brigitta BALAZS, Viktoria NYIRI, Boglárka VARRO – SURVEY OF ENZYMES KNOWN IN THE FIELD OF FOOD INTOLERANCE

One Health section

Moderators:

Associate Professor Cristinel-Gigi ȘONEA, PhD

Lecturer Florin-Gheorghe LUP, PhD

50. Cristinel-Gigi SONEA, Răzvan-Daniel COTIANU, Nina SAVA, Gabriela PÎRVULESCU – INTEGRATING THE ONE HEALTH CONCEPT INTO THE UNIVERSITY CURRICULUM AREA
51. Cristinel-Gigi SONEA, Răzvan-Daniel COTIANU, Nina SAVA, Petre-Adrian ISAR – THE IMPORTANCE OF THE ONE HEALTH CONCEPT IN AGRIBUSINESS AND COMBATING FOOD INSECURITY AT THE RURAL LEVEL
52. Mădălina Diana DAINA, László FEHÉR, Lucia Georgeta DAINA - ANALYSIS AND APPROACH TO CONFLICTS IN MEDICAL PRACTICE

53. Mădălina Diana DAINA, László FEHÉR, Cristian Marius DAINA - [ANALYSIS OF HEALTHCARE-ASSOCIATED INFECTIONS IN HOSPITALS](#)

15⁰⁰ Lunch