

SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS

Doctoral School of Fundamental and
Engineering Sciences

PROGRAMMES

2025

SCDS-UDJG 2025

The 12th Edition, GALAȚI,
12th-13th of June 2025

SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS

Doctoral School of Fundamental and
Engineering Sciences

The 13th Edition
GALAȚI, 12th-13th of June 2025

CONFERENCE PROGRAMME

THURSDAY – 12 of June 2025

08:00 - 10:00	Invited plenary lectures (online)
09:00 - 11:00	Participants registration
10:00 – 13:00	Invited lectures Oral presentations in concurrent sections
13:00 - 14:00	Lunch (building D - 1 st floor)
14:00 - 16:00	Invited lectures Oral presentations in concurrent sections (onsite or online)
16:00 - 16:30	Coffee break (building D - 1 st floor)
16:30 - 19:00	Oral presentations in concurrent sections

FRIDAY – 13 of June 2025

09:00 - 10:30	Oral presentations in concurrent section
10:30 - 11:00	Coffee break (building D - 1 st floor)
11:00 - 13:00	Poster Session (online)
11:00 - 13:00	Workshop
13:00 - 14:00	Awarding ceremony. Closing ceremony
14:00 - 15:00	Lunch (building D - 1 st floor)

PROGRESS IN FOOD SCIENCE AND BIO-RESOURCES ENGINEERING

ORAL PRESENTATIONS (11:00-15:40)

Chair: Daniela Borda

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| <p>OP.3.1
(11⁰⁰-11²⁵)</p> | <p><u>Mihaela Brumă (Călin)</u>, Iuliana Banu, Ina Vasilean, Loredana Dumitrașcu, Nicoleta Stănciuc, Gabriela Râpeanu, Aprodu Iuliana</p> | <p>Soy Protein Hydrolysates as Valuable Ingredient for Gluten-Free Muffins</p> |
| <p>OP.3.2
(11²⁵-11⁵⁰)</p> | <p><u>Ilir Mărtiri</u>, Leontina Grigore Gurgu, Liliana Mihalcea, Iuliana Aprodu, Mihaela Turturică, Alina Cantaragiu Cioromila, Gabriela Râpeanu, Nicoleta Stănciuc</p> | <p>Investigation of the Inhibitory Mechanism of <i>Salvia officinalis</i> Supercritical Fluid Extract against <i>Listeria monocytogenes</i></p> |
| <p>OP.3.3
(11⁵⁰-12¹⁵)</p> | <p><u>Marina Pihurov</u>, Mihaela Cotârleț, Leontina Grigore-Gurgu, Neculai Patriche, Maria Desimira Stroe, Gabriela Elena Bahrim</p> | <p>Metabiotic Ingredient Obtained Through the Biotransformation of <i>Spirulina</i> Biomass with Kombucha</p> |
| <p>OP.3.4
(12¹⁵-12⁴⁰)</p> | <p><u>Ana Maria Blejan</u>, Violeta Nour, Alexandru Radu Corbu, Georgiana Gabriela Codina</p> | <p>Corn-Based Extruded Snacks Supplemented with Bilberry Pomace Powder: Physical, Chemical, Functional and Sensory Properties</p> |
| <p>OP.3.5
(12⁴⁰-13⁰⁵)</p> | <p><u>Marilena Oprișanu</u>, Nicoleta Stănciuc, Leontina Grigore-Gurgu, Gabriela Elena Bahrim</p> | <p>Synergistic Interactions Between Gut Microbiota and Short-Chain Fatty Acids: A Crucial Axis in Human Health and Chronic Disease Prevention</p> |

13⁰⁵-14⁰⁰ Lunch break (Building D 1stfloor)

Chair: Violeta Nour

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| <p>OP.3.6
(14⁰⁰-14²⁵)</p> | <p><u>Bogdan Bocăneală</u>, Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Oana Emilia Constantin</p> | <p>Ripening Dynamics of <i>Fetească Neagră</i> Grapes in Response to Vintage Variability: A Three-Year Study from Southern Romania</p> |
| <p>OP.3.7
(14²⁵-14⁵⁰)</p> | <p><u>Anca Lupu</u>, Iuliana Banu, Ina Vasilean, Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu</p> | <p>Improvement of Gluten-Free Products through the Use of Sourdough</p> |
| <p>OP.3.8
(14⁵⁰-15¹⁵)</p> | <p><u>Valentina-Elena Gorgan</u>, Petronela Nechita, Aida – Mihaela Vasile, Gabriela Bahrim</p> | <p>Biopolymers from Renewable Resources - Sustainable Raw Materials with Applications in Agriculture</p> |
| <p>OP.3.9
(15¹⁵-15⁴⁰)</p> | <p><u>Roxana Ratu (Gavril)</u>, Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu, Claudia Mureșan, Gabriela Râpeanu</p> | <p>The Impact of Pumpkin Pomace Powder on the Quality and Antioxidant Activity of Gluten-Free Cake Products</p> |

15⁴⁵ - 16³⁰ Coffee Break (Building D 1stfloor)

Concluding remarks day 1

SECTION 3

PROGRESS IN FOOD SCIENCE AND BIO-RESOURCES ENGINEERING

POSTER SESSION (9:00-13:10) on line

Chair: Petronela Nechita

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| PP.3.1
(9 ⁰⁰ -9 ¹⁰) | <u>Samson Abebe Boyiza</u> , Iuliana Aprodu, Daniela Ionela Istrati, Nicoleta Stănciuc, Camelia Vizireanu | Physicochemical Characterization and Optimization of the Extraction of Bioactive Compounds of Teff Using Ultrasound-Assisted Method |
| PP.3.2
(9 ¹⁰ -9 ²⁰) | <u>Samson Abebe Boyiza</u> , Iuliana Aprodu, Daniela Ionela Istrati, Nicoleta Stănciuc, Camelia Vizireanu | HPLC Profiling and Prebiotic Activity of Teff |
| PP.3.3
(9 ²⁰ -9 ³⁰) | <u>Virginia Tanase Apetroaei</u> , Aida Mihaela Vasile, Mihaela Cotârleț, Daniela Ionela Istrati, Eugenia Mihaela Pricop, Gabriela Elena Bahrim and Camelia Vizireanu | Preliminary Studies on the Lactic Fermentation of Hemp Seeds |
| PP.3.4
(9 ³⁰ -9 ⁴⁰) | <u>Virginia Tanase Apetroaei</u> , Aida Mihaela Vasile, Mihaela Cotârleț, Daniela Ionela Istrati, Eugenia Mihaela Pricop, Camelia Vizireanu and Gabriela Elena Bahrim | Fermentation of Hulled Hemp Seeds (<i>Cannabis sativa</i> L.) with Kefir Grains |
| PP.3.5
(9 ⁴⁰ -9 ⁵⁰) | <u>Cristina Paula Gheorghe (Săpoi)</u> , Violeta Nour, Alexandru Radu Corbu | Physical, Pomological, Nutritional and Phytochemical Properties of Some Plum (<i>Prunus domestica</i> L.) Cultivars Grown in a Collection Orchard from South-West Romania |
| PP.3.6
(9 ⁵⁰ -10 ⁰⁰) | <u>Florina-Genica Oncică</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Constantin Croitoru, Sergiu Erich Palcu | Antioxidant Activity and Bioactive Compounds in Carrot Pomace Extracts Obtained Through Various Extraction Methods |
| PP.3.7
(10 ⁰⁰ -10 ¹⁰) | <u>Florina-Genica Oncică</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Constantin Croitoru, Sergiu Erich Palcu | Exploring the Nutritional Enhancement Potential of Carrot By-Products in Food Formulations |
| PP.3.8
(10 ¹⁰ -10 ²⁰) | <u>Larisa Anghel</u> , Gabriel Dănuț Mocanu, Gabriela Râpeanu, Nicoleta Stănciuc | Valorization of Red Grape Pomace Inoculated with Lactic Acid Bacteria by Drying: Evidences on Phytochemicals Profile |
| PP.3.9
(10 ²⁰ -10 ³⁰) | <u>Nicoleta Bălan</u> , Silviu Măntăilă, Nicoleta Stănciuc, Gabriela Râpeanu | Alternative Extraction Solvents for a More Pronounced Protective Effect of Polyphenols in Red Grape Pomace Extracts: a Comparative Study |

10³⁰-11⁰⁰ Coffe break (Building D 1st floor)

Chair: Nicoleta Stănciuc

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| PP.3.10
(11 ⁰⁰ -11 ¹⁰) | <u>Mihaela Brumă (Călin)</u> , Daniela Țiuleanu, Ina Vasilean, Aprodu Iuliana | Comparison of Conventional and Emerging Techniques for the Extraction of Bioactive Compounds from Rosemary |
| PP.3.11
(11 ¹⁰ -11 ²⁰) | <u>Constandache (Lungeanu) Daniela</u> , Nistor Oana-Viorela, Mocanu Gabriel-Dănuț, Andronoiu Doina-Georgeta, Botez Elisabeta | Study Upon the Influence Low Sodium Environment on Quality Characteristics of Pickled Unripe Tomatoes During Storage |
| PP.3.12
(11 ²⁰ -11 ³⁰) | <u>Mirela Crăciunescu</u> , Iulia Bleoancă, Felicia Stan, Cătălin Fetecău, Loredana | Coaxial Electrospinning Applications for Obtaining PLA Fibers with Microencapsulated Thyme Essential |

	Dumitrașcu, Daniela Borda	Oil: - a Method to Develop Active Composite Materials
PP.3.13 (11³⁰-11⁴⁰)	<u>Diana Moisa (Danilov)</u> , Carmen Chițescu, Iulia Grecu, Angelica Docan, Danilov Cristian, Lorena Dediu	Assessment of OCP and PCB Contamination Transfer from Black Sea Aquatic Environments to Fish
PP.3.14 (11⁴⁰-11⁵⁰)	<u>Gheorghe Alexandra Teodora</u> , Gabriela Râpeanu, Oana Constantin, Nicoleta Stănciuc, Iuliana Aprodu, Claudia Mureșan	Influence of Heat Treatment on the Stability of Biological Active Compounds Recovered from Purple Carrot Peels
PP.3.15 (11⁵⁰-12⁰⁰)	<u>Valentina-Elena Gorgan</u> , Petronela Nechita, Aida – Mihaela Vasile, Gabriela Bahrim	Biodegradable Mulch Films: Economic and Environmental Advantages
PP.3.16 (11⁴⁰-11⁵⁰)	<u>Cornelia Hodorogea (Huhulea)</u> , Maria Turtoi	Food-educated Preschoolers of Today, Healthy Eaters of Tomorrow
PP.3.17 (11⁵⁰-12⁰⁰)	<u>Mihaela Hozoc (Nedelcu)</u> , Oana Emilia Constantin, Iuliana Aprodu, Gabriela Elena Bahrim, Nicoleta Stănciuc, Sergiu Erich Palcu, Gabriela Râpeanu	The Benefits of Finning Agents in Producing Quality White Wines
PP.3.18 (12⁰⁰-12¹⁰)	<u>Alina Nicoleta Macoveiu (Dobre)</u> , Mirela Crețu, Liliana Mihalcea, Cristian Rimniceanu, Lorena Dediu	<i>Ulva lactuca</i> Supplementation in Common Carp Diets: A Study of Growth Response in RAS with Varying Hydraulic Conditions
PP.3.19 (12¹⁰-12²⁰)	<u>Marian (Toca) Gianina</u> , Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu, Claudia Mureșan, Gabriela Râpeanu	Assessing Wine Quality and Authenticity: Enzymatic Measurement of Citric Acid Levels
PP.3.20 (12²⁰-12³⁰)	<u>Marina Pihurov</u> , Mihaela Cotârleț, Leontina Grigore-Gurgu, Dana Iulia Moraru, Neculai Patriche, Maria Desimira Stroe, Gabriela Elena Bahrim	Integrating the Spirulina Biomass and Wild Consortia of Microorganisms from Artisanal Cultures to Obtain Metabiotic Ingredients for Aquaculture
PP.3.21 (12³⁰-12⁴⁰)	<u>Daniela-Nicoleta Ropotan</u> , Lorena Dediu	The Impact of Neurotoxic Compounds on the Nervous System of Zebrafish
PP.3.22 (12⁴⁰-12⁵⁰)	<u>Roxana Ratu (Gavril)</u> , Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu, Claudia Mureșan, Gabriela Râpeanu	Effects of Extraction Parameters on Ultrasound-Assisted Recovery of Carotenoids from Pumpkin Peels
PP.3.23 (12⁵⁰-13⁰⁰)	<u>Lavinia Stan (Boldea)</u> , Gabriel Dănuț Mocanu, Gabriela Râpeanu, Nicoleta Stănciuc	Kinetics of Convective Air and Infrared Drying of Apple Snacks Infused in <i>Hibiscus Sabdariffa</i> Extract
PP.3.24 (13⁰⁰-13¹⁰)	<u>Marius Florin Stoica</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Constantin Croitoru, Sergiu Erich Palcu	Evolution of Physico-Chemical Parameters During the Ripening of Fetească Regală Grapes in the Dealu Bujorului Vineyard
PP.3.25 (13¹⁰-13²⁰)	<u>Nicoleta Bălan</u> , Silviu Măntăilă, Nicoleta Stănciuc, Gabriela Râpeanu	Use of a Natural Deep Eutectic Solvent (NaDES) for the Development and Optimization of Ultrasound-Assisted Green Extraction of Polyphenolic Compounds from Red and White Grape Pomace

13²⁰-14⁰⁰ Concluding remarks. Closing Ceremony

14⁰⁰-15⁰⁰ Lunch break (Building D 1st floor)

ORAL PRESENTATIONS (10:00-19:00)

Chairs: Florin-Marian Buhociu, Maria Magdalena Rahoveanu Turek, Silviu Stanciu, Adrian Gheorghe Zugravu

IL-OP.4.1 (10 ⁰⁰ -10 ¹⁰)	<u>Sebastian Brumă</u>	Academic Engagement in The Integration of Small Farmers Into Urban Food Systems: A Case Study of Iași Municipality
OP.4.2 (10 ¹⁰ -10 ²⁰)	<u>Dragoș Horia Buhociu</u>	Financing Rural Development o Romania by National Recovery Plan and Resilience
IL- OP.4.3 (10 ²⁰ -10 ³⁰)	<u>Florin-Marian Buhociu, Dragoș Horia Buhociu</u>	Sustainable Development In Agritourism Based On Circular Economy
IL-OP.4.4 (10 ³⁰ -10 ⁴⁰)	<u>Gheorghe Adrian Zugravu, Constanta Laura Zugravu</u>	The Strategic Importance of Canola Crops in Romania
IL-OP.4.5 (10 ⁴⁰ -10 ⁵⁰)	<u>Silviu Stanciu</u>	Associative Forms in Romanian Agriculture: Opportunities for Enhancing Competitiveness and Rural Development
OP.4.6 (10 ⁵⁰ -11 ⁰⁰)	<u>Milica - Ecaterina Dobrotă</u>	Agri-Food Public Procurement in Romania: Policy Gaps and Potential for Rural Development
OP.4.7 (11 ⁰⁰ -11 ¹⁰)	<u>Mihaela Pila</u>	Cross-Border Agri-Food Trade: Romania–Moldova
OP.4.8 (11 ¹⁰ -11 ²⁰)	<u>Maria Magdalena Turek Rahoveanu</u>	Economic Measures of Sustainable Development
OP.4.9 (11 ²⁰ -11 ³⁰)	<u>Lavinia Daniela Balasan, Dragoș Horia Buhociu, Florin Marian Buhociu</u>	Financing Scenarios for Rural Vocational Training: A Case Study from Brăila County and Insights for Romania's South-East Region
OP.4.10 (11 ³⁰ -11 ⁴⁰)	<u>Lavinia Daniela Balasan, Dragoș Horia Buhociu, Florin Marian Buhociu</u>	Mapping Future Rural Occupations: an Analysis of Skilled Labor Needs in Romania's South-East Region
OP.4.11 (11 ⁴⁰ -11 ⁵⁰)	<u>Mitică Roman, Floricel Maricel Dima, Neculai Patriche, Anca Nicoleta Cordeli (Săvescu), Stanciu Silviu</u>	Adaptation of Sustainable Aquaculture Practices to Climate Change: the Role of Agropiscicultural Rotation in Preserving Biodiversity in Southeastern Romania
OP.4.12 (11 ⁵⁰ -12 ⁰⁰)	<u>Laureana Odajiu, Silviu Stanciu</u>	Food Waste in Republic of Moldova in 2024: Causes, Impacts, and Policy Responses
OP.4.13 (12 ⁰⁰ -12 ¹⁰)	<u>Nicolae Mocanu, Silviu Stanciu</u>	Food Consumption, Media Promotion, and Population Health in the Republic of Moldova
OP.4.14 (12 ¹⁰ -12 ²⁰)	<u>Alexandru Ghencea, Silviu Stanciu</u>	Market Concentration and Territorial Asymmetries in the Moldovan Agri-Food Retail System
OP.4.15 (12 ²⁰ -12 ³⁰)	<u>Iuliana (Tomoșoiu) Condulet, Silviu Stanciu</u>	Food Recalls in Romania (2021–2024): a Study on Trends, Causes, and Public Health Implications
OP.4.16 (12 ³⁰ -12 ⁴⁰)	<u>Iuliana (Tomoșoiu) Condulet, Silviu Stanciu</u>	Analysis Of Food Product Withdrawal And Recall Notifications In Romania, 2024
OP.4.17 (12 ⁴⁰ -12 ⁵⁰)	<u>Beatrice-Simona Manolache, Silviu Stanciu</u>	Vocational Training as a Factor for Enhancing Human Resources in Agriculture
OP.4.18 (12 ⁵⁰ -13 ⁰⁰)	<u>Beatrice-Simona Manolache, Silviu Stanciu</u>	Human Resources Dynamics in the Agricultural Sector in Romania

13 ⁰⁰ -14 ⁰⁰ Lunch break (Building D 1 st floor)		
Chairs:		
Florin-Marian Buhociu, Maria Magdalena Rahoveanu Turek, Silviu Stanciu, Adrian Gheorghe Zugravu		
OP.4.19 (14⁰⁰-14¹⁰)	<u>Camelia Chiculiță (Epure), Silviu Stanciu</u>	Funding Programs / Projects under Implementation (2021–2027 Financial Framework) with Impact on Rural Development
OP.4.20 (14¹⁰-14²⁰)	<u>Camelia Chiculiță (Epure), Silviu Stanciu</u>	European Perspective on Rural Development in Galați County: Challenges, Funding, and Regional Integration
OP.4.21 (14²⁰-14³⁰)	<u>Pînzari (Vișodet) Olesea, Maria Magdalena Turek Rahoveanu</u>	Funding Opportunities for Small Farmers to Support Sustainable Rural Development in the Central Region of Moldova
OP.4.22 (14³⁰-14⁴⁰)	<u>Daniel George Serban, Florina Loredana Serban, Maria Magdalena Turek Rahoveanu</u>	Digital Transformation in the Agricultural Field 2023-2027
OP.4.23 (14⁴⁰-14⁵⁰)	<u>Florina-Loredana R. Năstase (Șerban), Maria Magdalena Turek Rahoveanu</u>	Comparative Analysis of the Stage of Application of the Agro-Environmental Measure at European Level, by Member States
OP.4.24 (14⁵⁰-15⁰⁰)	<u>Marcu Emanuela, Maria Magdalena Turek Rahoveanu</u>	Efficiency of Agricultural Crops Under the Impact of Drought
OP.4.25 (15⁰⁰-15¹⁰)	<u>Gabriel Marian Pisica, Maria Magdalena Turek Rahoveanu</u>	The Use of Pedoclimatic Indicators in The Stability of Soil Quality in the Cernisoils Class in Tudor Vladimirescu Atu, Brăila County
OP.4.26 (15²⁰-15³⁰)	<u>Ciprian Grigorescu, Adrian Zugravu</u>	Developments in the Theories of Motivation
OP.4.27 (15³⁰-15⁴⁰)	<u>Vasilache Cosmina Ionela,</u>	Challenges and Opportunities in the Certification and Labeling of Organic Wines
OP.4.28 (15⁴⁰-15⁵⁰)	<u>Raluca Beatrice Costea (Voinea), Silviu Stanciu</u>	The Impact of Covid 19 on Tourism in Europe and Romania. The Agritourism and its Impact During the Pandemic
OP.4.29 (15⁵⁰-16⁰⁰)	<u>Raluca Beatrice Costea (Voinea), Silviu Stanciu</u>	Online Hunting Maps as Modern Tools for Promoting Agrotourism Activities
16 ⁰⁰ -16 ³⁰ Coffee Break (Building D 1 st floor)		
OP.4.30 (16³⁰-16⁴⁰)	<u>Adrian Petre Liptac, Silviu Stanciu</u>	Professional Associations in Romanian Animal Husbandry: Current Landscape and Development Needs
OP.4.31 (16⁴⁰-16⁵⁰)	<u>Adrian Petre Liptac, Silviu Stanciu</u>	The Evolution of the Goat Sector in Romania: Trends, Challenges, and Opportunities
OP.4.32 (16⁵⁰-17⁰⁰)	<u>Vitali Zanet, Silviu Stanciu</u>	Enhancing the Competitiveness of Moldova's Agri-Food Sector: Challenges and Policy Options
OP.4.33 (17⁰⁰-17¹⁰)	<u>Vitali Zanet, Silviu Stanciu</u>	Productivity and Market Integration of the Moldovan Agri-Food Sector
OP.4.34 (17²⁰-17³⁰)	<u>Paul Voicu, Silviu Stanciu</u>	Research on the Implementation of AI Technologies in the Agro-Food Sector
OP.4.35 (17³⁰-17⁴⁰)	<u>Eliza Carmen Despa (Mocian), Adrian Turek Rahoveanu</u>	The Alternative to Neonicotinoids: Premises for a Sustainable Agricultural Policy in the Romanian Context
OP.4.36 (17⁴⁰-17⁵⁰)	<u>Andra Adelina Dobrotă (Vasilescu), Adrian Turek Rahoveanu</u>	The Wine Value Chain in Romania: an Integrated Approach to the Wine Sector
OP.4.37 (17⁵⁰-18⁰⁰)	<u>Mirela-Georgiana Matei (Oprea), Elena-Roxana Șuhani (Toader),</u>	Emerging Technologies as a Sustainable Solution to Agricultural Risks: Challenges and Prospects

	Dorina Nicoleta Mocuța	
OP.4.38 (18⁰⁰-18¹⁰)	<u>Elena-Roxana Șuhani (Toader),</u> Mirela-Georgiana Matei (Oprea) Dorina Nicoleta Mocuța	Digital Solutions for Risk Management in the Public Sector that Improves the Efficiency and Accessibility of Internal Audit
OP.4.39 (18¹⁰-18²⁰)	<u>Paul Voicu, Silviu Stanciu</u>	Romanian Food Producers and the Digital Market: Opportunities and Barriers to Online Trade
OP.4.40 (18³⁰-18³⁰)	<u>Tatiana Chiril, Adrian Zugravu</u>	Solar Energy Communities in Romania: a Solution for Prosumers, Grid Balancing and Rural Development
OP.4.41 (18³⁰-18⁴⁰)	<u>Daniel George Serban, Florina</u> Loredana Serban, Maria Magdalena Turek Rahoveanu	Smart Farming Technologies Existent in SE of Romania
OP.4.42 (18⁴⁰-18⁵⁰)	<u>Florina Loredana Serban, Daniel-</u> George SERBAN, Maria Magdalena Turek Rahoveanu	Common Agricultural Policy in Romania
OP.4.43 (18⁵⁰-19⁰⁰)	<u>Alina Artiomov-Craciun,</u> Adrian-Gheorghe Zugravu	Biomass Energy: Management and Entrepreneurship Opportunities
OP.4.44 (19⁰⁰-19¹⁰)	<u>Carmen Lazăr (Gurgu-Lazăr), Maria</u> Magdalena Rahoveanu, Stanciu Silviu, Florin Buhociu Gheorghe Adrian Zugravu	Analysis of the Evolution of the Sorghum Cultivation Area, Worldwide, in The E.U. and at National Level
OP 4.45 (19¹⁰-19²⁰)	<u>Igor Scutaru, Maria Magdalena</u> Turek Rahoveanu	A Bibliometric Evaluation of Security and Safety in Rural Areas
OP 4.46 (19²⁰-19³⁰)	Sergiu Artiomov Craciun, Maria Magdalena Turek Rahoveanu	Main Sources of Funding for the Agricultural Sector in the Republic of Moldova: Trends and Challenges (2019-2024)

19¹⁰ - 19³⁰ Concluding remarks. Closing Ceremony

FRIDAY – 13 of June 2025

SECTION 4 (Room F203)

ADVANCES IN ENGINEERING AND MANAGEMENT IN AGRICULTURE AND RURAL DEVELOPMENT

11:00 - 13:00 Poster Session (online)

Chairs: Florin-Marian Buhociu, Maria Magdalena Rahoveanu Turek, Silviu Stanciu, Adrian Gheorghe Zugravu

PP.4.1 (11⁰⁰-11¹⁰)	<u>Lavinia Daniela Balasan, Dragoș</u> Horia Buhociub, Florin Marian Buhociu	Rural Development in Romania's South-East Region through Skilled Workforce Financing Scenarios
PP.4.2 (11¹⁰-11²⁰)	<u>Mitică Roman, Floricel Maricel</u> Dima, Neculai Patriche, Anca Nicoleta Cordeli (Săvescu), Stanciu Silviu	Fish Farming in the Moldova Region of Romania: Challenges and Opportunities in the Current Context
PP.4.3 (11²⁰-11³⁰)	<u>Laureana Odajiu, Silviu Stanciu</u>	The Role of the Food Bank in the Republic of Moldova in 2024
PP.4.4 (11³⁰-11⁴⁰)	<u>Nicolae Mocanu, Silviu Stanciu</u>	Food Marketing and Its Impact on Obesity Rates in Moldova: a 2024 Perspective
OP.4.5 (11⁴⁰-11⁵⁰)	<u>Alexandru Ghencea, Silviu</u> Stanciu	Market Concentration and Regional Disparities in the Agri-Food Supply Chain of the Republic of Moldova

THURSDAY – 12th of June 2025

SECTION 5 (Room D13)

ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES

INVITED LECTURES

Chairs: Marian Găiceanu, Viorel Mînz

IL.5.1 Marian Găiceanu, Marius George Next Generation of Electric Drives
(10⁴⁵-11¹⁵) Solomon, George-Andrei Marin,
Razvan Buhosu, Ghiorghita Dan Ionut

ORAL PRESENTATIONS (11:00-1:3)

OP.5.2 Marin George- Andrei, Marian Advanced Control of Mineral Mixture Dosing for
(11¹⁵-11³⁰) Gaiceanu Process Technology Efficiency

OP.5.3 Marin George- Andrei, Marian Improving the Efficiency of Hybrid Filtration
(11³⁰-11⁴⁵) Gaiceanu Systems through Automation with Pneumatic Nitrogen

OP.5.4 Madalina Gabriela Iorga, Luminita Systematic Comparison of Image Processing for
(11⁴⁵-12⁰⁰) Dumitriu, Mihai Culea Deep Learning-Based Pneumonia Diagnosis

OP.5.5 Gigi Tăbăcaru, Simona Moldovanu, Machine Learning and Convolutional Neural
(12⁰⁰-12¹⁵) Marian Barbu Network used in histopathological image classification

OP.5.6 Marius-George Solomon, Marian Optimizing the operation of loopers in hot strip
(12¹⁵-12³⁰) Găiceanu lamination

OP.5.7 Ghiorghita Dan Ionut, Marius- Neural Network Control for Induction Motor Feed-
(12³⁰-12⁴⁵) George Solomon , Marian Gaiceanu Drives

OP.5.8 Ionel Stănescu, Marian Gaiceanu Variable Speed Drives Integration into a Cyber-
(12⁴⁵-13⁰⁰) Physical Environment

13⁰⁰-14⁰⁰ Lunch break (Building D 1stfloor)

POSTER SESSION (14:00-16:00) on line

Chairs: Marian Găiceanu, Viorel Mînz

PP.5.1. Marin George- Andrei, Marian Optimizing energy consumption in the sintering
(14⁰⁰-14¹⁵) Gaiceanu process through advanced water flow control

PP.5.2. Raluca-Elena Necula Optimizing the operation of a Profibus network by
(14¹⁵-14³⁰) using a Profibus MOLEX card

PP.5.3. Marin George- Andrei, Marian Electrical System Analysis for Battery-Operated
(14³⁰-14⁴⁵) Gaiceanu Electric Ships

PP.5.4. Ghiorghita Dan Ionut, Marius- DC Motor Parameters Estimation based on Neuronal
(14⁴⁵-15⁰⁰) George Solomon , Marian Gaiceanu Network

PP.5.5. Ionel Stănescu, Marian Gaiceanu Numerical Results of the Teleoperation System
(15⁰⁰-15¹⁵)

PP.5.6. Răzvan Buhosu, Marian Găiceanu, Marin Omnidirectional Robot based on the Swedish Wheels
(15¹⁵-15³⁰) George- Andrei, Marius George Solomon

PP.5.7. Răzvan Buhosu, Marian Găiceanu, Marin Optimal nonlinear control of a mobile robot with
(15³⁰-15⁴⁵) George- Andrei, Marius George Solomon differential wheels

16³⁰-17⁰⁰ Coffee Break (Building D 1stfloor)

Concluding remarks/Closing Ceremony

THURSDAY – 12th of June 2025

SECTION 6 (Room AN212)

FUTURE OF ECO-NANOTECHNOLOGIES, FUNCTIONAL MATERIALS AND COATINGS

INVITED LECTURES (10:00-11:00)

IL.6.1. (10 ⁰⁰ -10 ³⁰)	<u>Natalia Beglet</u>	Energy Efficiency Assessment in Educational Institutions in the Republic of Moldova: Case Study Based on Energy Audit Reports Developed within the GIZ Project
IL.6.2. (10 ³⁰ -11 ⁰⁰)	<u>Narcisa Cella Pînzariu</u>	Modern Strategies in Fixed Implant Prosthodontics Using Zirconium Support

ORAL PRESENTATIONS (11:00-15:40)

Chairs: Daniela Laura Buruiană, Gheorghe Gurău

OP.6.1 (11 ⁰⁰ -11 ²⁰)	<u>Cristian Ștefănescu</u> , Daniela Laura Buruiană, Petrică Alexandru, Mihaela Marin, Florin Bogdan Marin, Gheorghe Gurău	The Influence of High Speed High Pressure Torsion (HSHT) Parameters on the Mechanical and Thermal Properties Obtained on Ni _{50.3} Ti _{49.7} /Ni _{49.6} Ti _{50.4} /Ni _{50.3} Ti _{49.7} (at.%) Multilayer Composite Module
OP.6.2 (11 ²⁰ -11 ⁴⁰)	<u>Cristian Ștefănescu</u> , Daniela Laura Buruiană, Petrică Alexandru, Mihaela Marin, Florin Bogdan Marin, Gheorghe Gurău	The Influence of the Degree of Deformation on the Variation of Critical Points in Ni-Ti Multilayer Composites Obtained by High Speed High Pressure Torsion (HSHT)
OP.6.3 (11 ⁴⁰ -12 ⁰⁰)	<u>Marian Cristian Staicu</u> , Daniela Laura Buruiană, Viorica Ghisman, Alina Crina Mureșan	Structural Integrity Analysis of a Cryogenic O ₂ Storage Vessel for Industrial Environments
OP.6.4 (12 ⁰⁰ -12 ²⁰)	<u>Andrei Ivanov</u> , Iulian Vasile Antoniac, Daniela Laura Buruiană, Constantin Truș	Development of Innovative Nanostructured Materials for Advanced Sensory Applications
OP.6.5 (12 ²⁰ -12 ⁴⁰)	<u>Georgiana Ghisman</u> , Tudor Viorel Țigănescu, Daniela Laura Buruiană	Recent Developments and Perspectives of Coated Materials for Ballistic Protection
OP.6.6 (12 ⁴⁰ -13 ⁰⁰)	<u>Elena Ciutac (Nicolae)</u> , Nicoleta Bogatu, Catalina Iticescu, Daniela Laura Buruiană	Strategies for Reusing Construction Waste to Reduce Environmental Impact

13⁰⁰-14⁰⁰ Lunch (building D - 1st floor)

OP.6.7 (14 ⁰⁰ -14 ²⁰)	<u>Tiberiu Alexandru Pirvu</u> , Catalina Iticescu, Daniela Laura Buruiană, Gabriel Bogdan Carp	Innovative Materials Used for Medium-Caliber Ammunition
OP.6.8 (14 ²⁰ -14 ⁴⁰)	<u>Nicoleta Bogatu</u> , Daniela Laura Buruiană, Viorica Ghisman, Alina Crina Mureșan, Anca Lupu	Corrosion Behavior Assessment of S275JR Steel with Polymeric Coatings in Natural Seawater

14⁴⁰-15⁴⁰ Concluding remarks/Closing Ceremony

THURSDAY – 12th of June 2025

SECTION 7 (Room SC2 FORINFO)

CHEMISTRY - ELECTROCHEMISTRY IN LIFE SCIENCES

ORAL PRESENTATIONS (11:00-13:00)

Chair: Constantin APETREI

IL.1.	<u>Chierici Sabine</u>	In search of inhibitors of Tau amyloid fibers: synthetic peptide fragments as fibers models
IL.2.	<u>Constantin Apetrei</u>	Voltametric data processing using genetic algorithms
OP.7.1 (11 ⁰⁰ -11 ²⁰)	<u>Andra-Georgiana Trifan</u> , Constantin Apetrei	Electrochemical Detection of Melatonin Using Graphene and Graphene Oxide-Based Voltammetric Biosensors Modified with Horseradish Peroxidase
OP.7.2 (11 ²⁰ -11 ⁴⁰)	<u>Măghinici Ana-Raluca</u> , Comănescu Andreea-Loredana, Geman Andrei, Apetrei Constantin.	Iridium particles based electrochemical sensors for the sensitive detection of phenylbutazone
OP.7.3 (11 ⁴⁰ -12 ⁰⁰)	<u>Andreea-Loredana Comănescu</u> , Andrei-Daniel Geman, Andra-Georgiana Trifan, Constantin Apetrei	Chemically modified sensors for the analysis of ascorbic acid in pharmaceutical products
OP.7.4 (12 ⁰⁰ -12 ²⁰)	<u>Andrei-Daniel Geman</u> , Constantin Apetrei	Detection of antioxidant compounds with voltametric sensors
OP.7.5 (12 ²⁰ -12 ⁴⁰)	<u>Alexandra Virginia Bounegru</u> , Constantin Apetrei	Evaluation of antioxidant activity of microencapsulated glutathione using electrochemical and spectrophotometric techniques
OP.7.6 (12 ⁴⁰ -13 ⁰⁰)	<u>Corolenco Maria-Ioana</u> , Andreea-Veronica Botezatu, Alexandra-Mariana Ionescu, Ana Maria Mocanu, Rodica-Mihaela Dinica	Harnessing the pharmacological potential of piperine through semisynthesis – a green approach

13⁰⁰-14⁰⁰ Lunch break (Building D 1st floor)

ORAL PRESENTATIONS (14:00-16:00)

Chair: Rodica DINICĂ

OP.7.7 (14 ⁰⁰ -14 ²⁰)	<u>Maria Daniela (Ionica) Mihaila</u> , Valentina Andreea Calmuc, Ira-Adeline Simionov, Puiu - Lucian Georgescu, Catalina Iticescu, Bianca Furdui, Rodica Mihaela Dinica	Bioactive Compounds and Mineral Content in <i>Iris pseudacorus</i> from the Danube Delta: A Multi-Technique Approach
OP.7.8 (14 ²⁰ -14 ⁴⁰)	<u>Ionescu Alexandra-Mariana</u> , Botezatu Andreea-Veronica, Mocanu Ana-Maria, Busuioc Anna, Mihaila Maria Daniela, Furdui Bianca, Chierici Sabine, Dupont Cecile, Costel Vinatoru, Dinica Rodica Mihaela	Study of chemical composition and antineurodegenerative effect of <i>Rumex acetosa</i>
OP.7.9	<u>Mocanu Ana-Maria</u> , Botezatu-Dediu	Comparative Phytochemical and Pharmacological

(14 ⁴⁰ -15 ⁰⁰)	Andreea Veronica, Ionescu Alexandra Mariana, Ionica (Mihaila) Maria Daniela, Costel Vanatoru, Furdui Bianca, Dinica Rodica Mihaela	Evaluation of <i>Perilla frutescens</i> and <i>Plantago major</i> Extracts Obtained via Green Extraction Using Deep Eutectic Solvents
OP.7.10 (15 ⁰⁰ -15 ²⁰)	<u>Busuioc Anna</u> , Andreea Veronica Botezatu, Maria Daniela Mihaila, Marius Vasile Bârdan Dinica Rodica-Mihaela	Profiling and Quantification of Key Phytochemical Classes in <i>Cucumis metuliferus</i> Fruits
OP 7.11 (15 ²⁰ -15 ⁴⁰)	<u>V. C. Ferreira Filho</u> , B. J. C. Vieira, J. C. Waerenborgh, M. P. Campello, M. J. Carmezim, T. Pinheiro, S. Lacerda, L. C. J. Pereira	Tailoring multifunctional nanoplateforms based on SPIONs and graphene oxide for advanced healthcare applications

16⁰⁰-16³⁰ Coffee Break (Building D 1st floor)

Concluding remarks day 1

FRIDAY – 13th of June 2025

SECTION 7

CHEMISTRY - ELECTROCHEMISTRY IN LIFE SCIENCES

ORAL PRESENTATIONS (9:00-10:30)

Chair: Aurel TĂBĂCARU

OP. 7.12 (9 ⁰⁰ -9 ¹⁰)	<u>Durand Dah-Nouvlessounon</u> , Hyacinthe Hlannon, Andreea-Veronica Botezatu, Rodica Mihaela Dinica, Lamine Baba-Moussa	Biochemical characterization and pharmacological properties of four local foods (<i>Phoenix dactylifera</i> ; <i>Sesamum indicum</i> ; <i>Cyperus esculentus</i> ; <i>Anacardium occidentale</i>) rich in active biomolecules and fatty acids
OP. 7.13 (9 ¹⁰ -9 ²⁰)	<u>Koudoro Yaya Alain</u> , Olaye Théophile, Olissan Alix Claudie Don de Dieu Abossèdé, Agbangnan Dossa Cokou Pascal, Avlessi Félicien, Sohounhloué C. K Dominique, Alexandra Mariana Ionescu, Dinica Rodica Mihaela	Formulation of an antibacterial ointment from extracts of four plants used in Benin to treat skin diseases
OP. 7.14 (9 ²⁰ -9 ³⁰)	<u>LEMA Armandine</u> , Belem-Kabré W. Leila Marie Esther, SAWADOGO Mamadou, Bangou Mindiédba Jean, Ouédraogo Noufou, Alexandra Mariana Ionescu, Rodica Mihaela Dinica	Antioxidant, anti-inflammatory and antiulcer potential of the aqueous extract of <i>Detarium microcarpum</i> leaves Guill & Perr.
OP. 7.15 (9 ³⁰ -9 ⁴⁰)	<u>Cissé Salimatou</u> , Somboro Aimé Ainin, Dembélé Niaboula, Traoré Yahaya Dit Tinkani, Badiaga Mamadou, Andreea Veronica Botezatu, Dinica Rodica Mihaela	Traditional Uses and Secondary Metabolite Composition of <i>Boscia senegalensis</i> (Pers) Lam. Ex Poir. Capparaceae harvested in Mali
OP. 7.16 (9 ⁴⁰ -9 ⁵⁰)	<u>HAROUNA DIETE Souleymane</u> , KOUAKOU N'Goran David Vincent, SORO Yaya, Maria Daniela Ionica Mihaila, Andreea Veronica Botezatu, Anna Cazanevscaia Busuioc,	Valorization of two Ivorian agricultural waste products (<i>Corchorus olitorius</i> and <i>Euphorbia heterophylla</i> seeds) to improve the productivity and nutritional quality of eggs from laying

OP. 7.17 (9⁵⁰-10⁰⁰)	Rodica Mihaela Dinica <u>Fatima Zahra Sadiki</u> , Corina Neagu, Geta Carac, Andreea Veronica Dediu Botezatu, Mohamed Chabbi, Bene Kouadio, Mohammed Sbiti, Mostafa El Idrissi, Ali Amechrouq, Rodica Mihaela Dinica	quails (<i>Coturnix coturnix japonica</i>) Valorization of the essential oil of <i>Tetralinis articulata</i> (Vahl) Masters as antioxidant and antibacterial agents, and their incorporation into gummy candies.
OP. 7.18 (10⁰⁰-10¹⁰)	<u>Constantin Apetrei</u> , Alexandra Virginia Bounegru	Detection of glutathione with a novel chemically modified electrode
OP. 7.19 (10¹⁰-10²⁰)	<u>Andrei-Daniel Geman</u> , Andreea-Loredana Comănescu, Raluca-Ana Măghinici, Constantin Apetrei	Detection of acetaminophen with ferrocene-modified carbon paste electrode
OP. 7.20 (10²⁰-10³⁰)	<u>Andra-Georgiana Trifan</u> , Constantin Apetrei	Electrochemical Determination of Melatonin in Pharmaceutical Products Using a Gold Nanoparticle-Modified Graphene Sensor

10³⁰-11¹⁰ Coffee Break (Building D 1st floor)

ORAL PRESENTATIONS (11:00-12:40)

Chair: Constantin APETREI

OP. 7.21 (11⁰⁰-11¹⁰)	<u>Ana-Raluca Măghinici</u> , Andreea-Loredana Comănescu, Andrei-Daniel Geman, Constantin Apetrei	Detection of phenylbutazone in pharmaceuticals with carbon screen-printed electrodes
OP. 7.22 (11¹⁰-11²⁰)	<u>Ionica-Denisa Constantin</u> , Alexandra-Virginia Bounegru, Aurel Tăbăcaru	Capture of pharmaceutical substances in metal azolate frameworks
OP. 7.23 (11²⁰-11³⁰)	<u>Mariana Bușilă</u> , Aurel Tăbăcaru	Zinc oxide nanoparticles modified with halogenosilanes
OP. 7.24 (11³⁰-11⁴⁰)	<u>Comănescu Andreea-Loredana</u> , Apetrei Constantin	Electrochemical sensors for histamine detection in foods
OP. 7.25 (11⁴⁰-11⁵⁰)	<u>Andreea-Loredana Comănescu</u> , Alexandra Roșca, Constantin Apetrei	Assessment of the compounds with antioxidant properties in nutraceuticals using cyclic voltammetry
OP. 7.26 (11⁵⁰-12⁰⁰)	<u>Măghinici Ana-Raluca</u> , Apetrei Constantin	Detection of paracetamol using voltametric techniques
OP. 7.27 (12⁰⁰-12¹⁰)	<u>Andrei-Daniel Geman</u> , Constantin Apetrei	Development of electrochemical methods for determination of phenolic compounds
OP. 7.28 (12¹⁰-12²⁰)	<u>Marius Vasile Bârdan</u> , Andreea Veronica Botezatu, Camelia Bratu, Costel Vanatoru, Camelia Bratu, Anna Busuioc, Alexandra-Mariana Ionescu, Geta Carac Bianca Furdui, Rodica-Mihaela Dinică	Comparative analysis of chemical profile and biological activity of extracts from leaves and flowers of <i>Artemisia spp.</i>
OP. 7.29 (12²⁰-12³⁰)	<u>Andreea Veronica Botezatu</u> , Bianca Furdui, Rodica-Mihaela Dinică	Applications of Conventional and Green Methods in Synthesis of Aromatic N-heterocycles
OP. 7.30 (12³⁰-12⁴⁰)	<u>M'Po Sonia Marie Blanche</u> , Guenne Samson, Koama Kouliga Benjamin, Ouattara Nabéré, Alexandra Ionescu, Meda Năg-Tiero Roland	Phytochemical study and pharmacological activities of methanolic extracts of <i>Eclipta alba</i> (L) Hassk. (Asteraceae) on the behavior of NMRI mice
OP. 7.31 (12⁴⁰-12⁵⁰)	<u>Dumitru Mihaela</u> , Rebegea Laura, Dumitrache Mihai, Alina Dumitrache, Patriche Gina	Radiobiology perspectives – past, present and future
OP. 7.32	Mendes Edgar; Aprà Pietro; Belchior Ana;	Green-synthesized gold-coated nanodiamonds as

- (12⁵⁰-13⁰⁰)** Piccolo Federico; Alves Marta M.; Dinica Rodica Mihaela; Moura Maria João; Sturari Sofia; Pinheiro Teresa; Cabral Campello Maria Paula potential radiosensitizers for proton therapy
- OP. 7.33** Sanvee Sabrina Chris Janiba, Dermane Affo, Phytochemistry and pharmacological properties
(13⁰⁰-13¹⁰) Aboudoulatif Diallo, Batomayena Bakoma of *Sida linifolia* fractions used in the treatment of diabetes in Togo

13.00-14.00 Concluding remarks. Closing Ceremony