

constandache

SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS

Doctoral School of Fundamental and
Engineering Sciences

PROGRAMME

2024

SCDS-UDJG 2024
The 12th Edition, GALAȚI,
6th-7th of June 2024

Universitatea "Dunărea de Jos"
din Galați

PROGRESS IN FOOD SCIENCE AND BIO-RESOURCES ENGINEERING

ORAL PRESENTATIONS (11:00-15:40)

Chair: Daniela Borda

- | | |
|--|--|
| <p>OP.3.1 (11⁰⁰-11²⁰) <u>Elie Wilfried Wendnongma Biego</u>,
Camelia Vizireanu, Abdallah Dao,
Hagrétou Sawadogo Lingani</p> <p>OP.3.2 (11²⁰-11⁴⁰) <u>Iir Mërtiri</u>, Mihaela Turturică, Gabriela Râpeanu, Nicoleta Stănciuc</p> <p>OP.3.3 (11⁴⁰-12⁰⁰) <u>Bogdan Bocăneală</u>, Gabriela Râpeanu, Nicoleta Stănciuc, Oana Emilia Constantin, Iuliana Aprodu</p> <p>OP.3.4 (12⁰⁰-12²⁰) <u>Mirela Iana-Roman (Roman)</u>, Rodica Mihaela Dinică, Vasilica Barbu, Gabriela Elena Bahrim, Petronela Nechita</p> <p>OP.3.5 (12²⁰-12⁴⁰) <u>Nicoleta Cîrstea (Lazăr)</u>, Violeta Nour, Alexandru Radu Corbu, Georgiana Gabriela Codină</p> <p>OP.3.6 (12⁴⁰-13⁰⁰) <u>Roxana Nicoleta Rațu (Gavril)</u>, Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu, Gabriela Râpeanu</p> | <p>Technological Suitability of Quinoa in Food Formulation as an Alternative Solution to Food Diversification and Food Security in Burkina Faso</p> <p>Evaluation of Bioactive Compounds and Antibacterial Activity of <i>Myrtus communis</i> Berries</p> <p>Improving Winemaking Technology for Red Grapes in the Terasale Dunării IG wine region by using the saignée technique</p> <p>The Evaluation of Biodegradability Characteristics of Food Packaging Papers Based on Xylan Hemicellulose Composite Coatings</p> <p>Efficacy of Chitosan, Pectin And Xanthan as Cold Gelling Agents in Emulsion Gels Enriched in Polyunsaturated Fatty Acids to Be Used as Pork Backfat Replacers in Beef Burgers</p> <p>Pumpkin Peel Powder as a Bioactive Ingredient for the Manufacture of Carotenoid-Enriched Yogurt</p> |
|--|--|

13⁰⁰-14⁰⁰ Lunch break (Building D 1stfloor)

Chair: Violeta Nour

- | | |
|---|---|
| <p>OP.3.7 (14⁰⁰-14²⁰) <u>Ana Maria Blejan</u>, Violeta Nour, Alexandru Radu Corbu, Simona Mariana Popescu</p> <p>OP.3.8 (14²⁰-14⁴⁰) <u>Mihaela Brumă (Călin)</u>, Iuliana Banu, Nicoleta Stănciuc, Gabriela Râpeanu, Ina Vasilean, Iuliana Aprodu</p> <p>OP.3.9 (14⁴⁰-15⁰⁰) <u>Geanina Constandache</u>, Mirela Crețu, Alina Dobre, Maria Desimira Stroe, Floricel Maricel Dima, Neculai Patriche, Lorena Dediu</p> <p>OP.3.10 (15⁰⁰-15²⁰) <u>Marina Procop (Pihurov)</u>, Daniela Borda, Mihaela Cotârlet, Gabriela Elena Bahrim</p> <p>OP.3.11 (15²⁰-15⁴⁰) <u>Lavinia Stan (Boldea)</u>, Iuliana Aprodu, Gabriela Râpeanu, Nicoleta Stănciuc</p> | <p>Recovery of Phenolic Compounds from Wild Bilberry, Blackcurrant and Blackberry Pomaces by Maceration and Ultrasound-Assisted Extraction</p> <p>Combined Experimental and <i>in silico</i> Investigations on the Effect of Microbial Proteinase on the Intrinsic Bioactivity of the Egg Proteins</p> <p>Effect of <i>Spirulina platensis</i> and <i>Moringa oleifera</i> on Growth, Hematological, Biochemical and Immunological Parameters of Stellate Sturgeon (<i>Acipenser stellatus</i>)</p> <p>Paraprobiotics Obtainment by Inactivation of <i>Lactocaseibacillus paracasei</i> MIUG BL 80 Selected Probiotic Strain by Ultrasonic Treatment Combined with Thermal Treatment and Mathematical Modeling of Inactivation Kinetics</p> <p>Innovative Strategies for Obtaining Apple Jams with a Reduced Degree of Enzymatic Browning</p> |
|---|---|

16⁰⁰-16³⁰ Coffee Break (Building D 1stfloor)

Concluding remarks day 1

SECTION 3

PROGRESS IN FOOD SCIENCE AND BIO-RESOURCES ENGINEERING

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

Chair: Petronela Nechita

- | | | |
|--|--|--|
| PP.3.1
(9 ⁰⁰ -9 ¹⁰) | <u>Florina-Genica Oncică</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Georgiana Horincar | Possibility to Develop a Value-Added Cake Based on Carrot Pomace Powder |
| PP.3.2
(9 ¹⁰ -9 ²⁰) | <u>Virginia Apetroaei (Tănase)</u> , Eugenia Mihaela Pricop, Daniela Ionela Istrati, Aida Mihaela Vasile, Gabriela Elena Bahrim and Camelia Vizireanu | Industrial Hemp (<i>Cannabis sativa L.</i>): A Sustainable Alternative to Traditional Sources of Plant Proteins and Lipids |
| PP.3.3
(9 ²⁰ -9 ³⁰) | <u>Boyiza Samson Abebe</u> , Iuliana Aprodu, Daniela Ionela Istrati, Camelia Vizireanu | Review on Chemical and Nutritional Composition and Technological Properties of Teff |
| PP.3.4
(9 ³⁰ -9 ⁴⁰) | <u>Florina-Genica Oncică</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Georgiana Horincar | Extraction of Bioactives from Carrot Pomace Powder (<i>Daucus carota L.</i>) Using Ultrasonic-Assisted Method |
| PP.3.5
(9 ⁴⁰ -9 ⁵⁰) | <u>Virginia Apetroaei (Tănase)</u> , Eugenia Mihaela Pricop, Daniela Ionela Istrati, Aida Mihaela Vasile, Gabriela Elena Bahrim and Camelia Vizireanu | Exploring the Potential of Hemp Seeds (<i>Cannabis sativa L.</i>) in Food Industry: A Comprehensive Overview |
| PP.3.6
(9 ⁵⁰ -10 ⁰⁰) | <u>Marius Florin Stoica</u> , Gabriela Râpeanu, Georgiana Horincar, Nicoleta Stănciuc, Iuliana Aprodu | Possibilities of White Grapes Processing in the Presence of Carbonic Ice |
| PP.3.7
(10 ⁰⁰ -10 ¹⁰) | <u>Diana-Andrea Danilov (Moisa)</u> , Carmen-Lidia Chițescu, Angelica-Ionelia Docan, Iulia Grecu, Valentina Coatuu, Luminita Lazar, Andra Oros, Nicoleta Damir, Elena Ristea, Cristian Danilov, Lorena Dediu | The Impact of Some Pollutants on the Hormonal System of Aquatic Organisms |
| PP.3.8
(10 ¹⁰ -10 ²⁰) | <u>Roxana Nicoleta Ratu (Gavril)</u> , Gabriela Râpeanu, Florina Stoica, Oana Emilia Constantin, Nicoleta Stănciuc, Iuliana Aprodu | Extraction and Characterization of Bioactive Compounds from Pumpkin Peel Powder |
| PP.3.9
(10 ²⁰ -10 ³⁰) | <u>Samson Abebe</u> , Anca Ioana Nicolau, Corina Neagu, Camelia Vizireanu | Isolation and Identification of Dominant Lactic Acid Bacteria Species from Ersho |

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

Chair: Nicoleta Stănciuc

- | | | |
|---|--|---|
| PP.3.10
(11 ⁰⁰ -10 ¹⁰) | <u>Ilir Mërtiri</u> , Bogdan Păcularu-Burada, Gabriela Râpeanu, Nicoleta Stănciuc | Polyphenolic Profile Characterization of Two Species of Juniper Berries (<i>J. communis</i> and <i>J. oxycedrus</i>), and Their Antibacterial Potential |
| PP.3.11
(11 ¹⁰ -11 ²⁰) | <u>Gheorghe Alexandra Teodora</u> , Gabriela Râpeanu, Oana Constantin, Nicoleta Stănciuc, Iuliana Aprodu | Phytochemical Characterization of By-Products Resulted after Processing of Purple Carrots |
| PP.3.12
(11 ²⁰ -11 ³⁰) | <u>Andreea (Lanciu) Dorofte</u> , Daniela Tiuleanu, Iulia Bleoanca, Daniela Borda | Poly-composite Films Based On Whey Proteins Concentrate and Zein, with Cinnamon and Lavander EOs, Designed for an Instant Powder with |

PP.3.13 (11 ²⁰ -11 ³⁰)	<u>Alina Nicoleta Dobre (Macoveiu)</u> , Geanina Constandache, Mirela Crețu, Maria Desimira Stroe, Angelica Docan, Floricelel Maricel Dima, Lorena Dediu	Low Lactose Content The Green Algae <i>Ulva lactuca</i> as a Potential Ingredient in Diets of Stellate Sturgeon (<i>Acipenser stellatus</i>) and Sterlet Sturgeon (<i>Acipenser ruthenus</i>)
PP.3.14 (11 ²⁰ -11 ³⁰)	<u>Daniela Constandache</u> , Doina-Georgeta Andronoiu, Gabriel-Dănuț Mocanu, Oana-Viorela Nistor, Elisabeta Botez	Evaluation of Pickled Green Tomatoes Texture and Color During Storage in Low Sodium Conditions
PP.3.15 (11 ³⁰ -11 ⁴⁰)	<u>Ana-Maria Fundeanu</u> , Oana-Viorela Nistor, Doina-Georgeta Andronoiu, Gabriel-Dănuț Mocanu, Elisabeta Botez	Investigating Specific Military Eating Habits by Applying Frequency Questionnaire
PP.3.16 (11 ⁴⁰ -11 ⁵⁰)	<u>Mihaela Manuela (Hozoc) Nedelcu</u> , Oana Emilia Constantin, Iuliana Aprodu, Gabriela Elena Bahrim, Nicoleta Stănciuc, Gabriela Râpeanu	Influence of Pressing on the Quality of White Wines Quality
PP.3.17 (11 ⁵⁰ -12 ⁰⁰)	<u>Larisa Anghel</u> , Gabriel – Dănuț Mocanu, Nicoleta Stănciuc	Influence of Drying Methods on Physico-Chemical and Functional Properties of Red Grape Pomace Powder
PP.3.18 (11 ⁵⁰ -12 ⁰⁰)	<u>Anca Lupu</u> , Iuliana Banu, Ina Vasilean, Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu	Investigations on Vegetal Proteins Addition on the Functional and Rheological Behavior the Gluten- Free Flours
PP.3.19 (12 ⁰⁰ -12 ¹⁰)	<u>Nicoleta Bălan</u> , Gabriel – Dănuț Mocanu, Nicoleta Stănciuc	Green Strategies for the Valorization of Grape Pomace to Obtain Added Value Products
PP.3.20 (12 ⁰⁰ -12 ¹⁰)	<u>Cornelia Hodoroagea (Huhulea)</u> , Maria Turtoi	The Power of Food Education
PP.3.21 (12 ¹⁰ -12 ²⁰)	<u>Marian (Toca) Gianina</u> , Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Oana Emilia Constantin	Presence of Organic Acids in Wines with Implications in Authentication and Quality of Wines
13⁰⁰-14⁰⁰	Concluding remarks. Closing Ceremony	

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

THURSDAY – 6th of June 2024

SECTION 4 (Room F203)

ADVANCES IN ENGINEERING AND MANAGEMENT IN AGRICULTURE AND RURAL DEVELOPMENT

ORAL PRESENTATIONS (11:00-15:40)

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

OP.4.1 (10 ⁰⁰ -10 ¹⁰)	Florin-Marian Buhociu, Dragoș Horia Buhociu	Sustainable Managerial Practices in Implementation of Circular Economy Concepts in Romanian Agriculture
OP.4.2 (10 ¹⁰ -10 ²⁰)	Petruța Turek Rahoveanu, Maria Magdalena Turek Rahoveanu	Assessment of Climate Changes on the Wine Sector
OP.4.3 (10 ²⁰ -10 ³⁰)	Gheorghe Adrian Zugravu, Constanta Laura Zugravu	The Potential of Urban Aquaponic Agriculture
OP.4.4 (10 ³⁰ -10 ⁴⁰)	Silvius Stanciu	Trends in Food Consumption in Romania

OP.4.5 (10 ⁴⁰ -10 ⁵⁵)	<u>Laura-Delia Anghelută</u> , Florin-Marian Buhociu, Silvius Stanciu	Romania's Progress Since Joining the European Union
OP.4.6 (10 ⁵⁵ -11 ¹⁰)	<u>Lavinia Daniela Balasan</u> , Florin Marian Buhociu, Cristinel Fertu	Rural Development in Region 2 Southeast Through Financing Scenarios for Unskilled Labour
OP.4.7 (11 ¹⁰ -11 ²⁵)	<u>Daniel George Serban</u> , Emanuela Lungu, Florina Loredana Serban, Maria Magdalena Turek Rahoveanu	IoT crop management solutions
OP.4.8 (11 ¹⁰ -11 ²⁵)	<u>Emanuela Marcu</u> , Ionel Alin Ghiorghe, Daniel Şerban, Gabriela Alina Cioromele, Maria Magdalena Turek Rahoveanu,	Efficiency of Agricultural Crops Under the Impact of Drought
OP.4.9 (11 ²⁵ -11 ⁴⁰)	<u>Gabriel Marian Pisica</u> , Maria Magdalena Turek Rahoveanu	Gis Approach in Land Evaluation and Suitability Assessment for Alfalfa in Frecăţei – Great Brăila Island Agrosystem Area
OP.4.10 (11 ⁴⁰ -11 ⁵⁵)	<u>Viorica Gutan</u> , Adrian Zugravu	Wine: Composition, Benefits and Contraindications
OP.4.11 (11 ⁵⁵ -12 ¹⁰)	<u>Ciprian Grigorescu</u>	Motivation and Organizational Behavior to be Successful in Business
OP.4.12 (12 ¹⁰ -12 ²⁵)	<u>Tatiana Chiril</u> , Alina Craciun,	Challenges and Perspectives of the Development of Renewable Energies in Moldova and Romania
OP.4.13 (12 ²⁵ -12 ⁴⁰)	<u>Nicolae Mocanu</u> , Silvius Stanciu	Overweight and Obesity Among Children in the Republic of Moldova and Romania: a Preliminary Study
OP.4.14 (12 ⁴⁰ -12 ⁵⁰)	<u>Nicolae Mocanu</u> , Silvius Stanciu	Food Consumption Patterns in the Republic of Moldova: Preliminary Research
OP. 4.15 (12 ⁵⁰ -13 ⁰⁰)	<u>Alexandru Ghencea</u> , Vitalii Zanet, Silvius Stanciu	The competition of economic actors on the market in the Republic of Moldova. Swot analysis of development opportunities.

13⁰⁰-14⁰⁰ Lunch break (Building D 1stfloor)

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

OP.4.16 (14 ⁰⁰ -14 ¹⁵)	<u>Laureana Odajiu</u>	Food Waste and Loss in Republic of Moldova
OP.4.17 (14 ¹⁵ -14 ³⁰)	<u>Beatrice-Simona Manolache</u> , Silvius Stanciu	Analysing the Romanian Agricultural Sector From the Human Resources Perspective
OP.4.18 (14 ³⁰ -14 ⁴⁵)	<u>Beatrice-Simona Manolache</u> , Silvius Stanciu	The Impact of Training Programs on Performance in Romanian Agriculture
OP.4.19 (14 ⁴⁵ -15 ⁰⁰)	<u>Iuliana Condulet</u> , Silvius Stanciu	Non-Conformities of Products Sold at European and National Level. An Analysis of the 2023 Rasff Notifications
OP.4.20 (15 ⁰⁰ -15 ¹⁵)	<u>Iuliana Condulet</u> , Silvius Stanciu	The Quality of Food Products in Romania: A Study From 2019 to 2023
OP.4.21 (15 ¹⁵ -15 ³⁰)	<u>Alexandru Ghencea</u> , Silvius Stanciu	Strategies for Increasing Economic Competitiveness at the Current Stage
OP.4.22 (15 ³⁰ -15 ⁴⁵)	<u>Camelia Chiculiță (Epure)</u> , Silvius Stanciu	Exploring Rural Development in Galați County: Preliminary Findings
OP.4.23 (15 ⁴⁵ -16 ⁰⁰)	<u>Camelia Chiculiță (Epure)</u> , Silvius Stanciu	Digitalizing Rural Romania: Evolution and Perspectives

16⁰⁰-16³⁰ Coffee Break (Building D 1stfloor)

OP.4.24 (16 ³⁰ -16 ⁴⁵)	<u>Rodica Aparaschivei (Bârlă)</u> , Silvius Stanciu	Smart Villages Initiative in Romania: Driving Rural Development Through Digital Innovation
---	--	--

OP.4.25 (16 ⁴⁵ -17 ⁰⁰)	<u>Rodica Aparaschivei (Bârlă)</u> , Silvius Stanciu	Rural Development Initiatives in Buzău County: Progress and Challenges
OP.4.26 (17 ⁰⁰ -17 ¹⁵)	<u>Raluca-Beatrice Costea (Voinea)</u> , Silvius Stanciu	The Role of Online Platforms in Hunting Tourism: Facilitating Connections and Services
OP.4.27 (17 ¹⁵ -17 ³⁰)	<u>Petre Adrian Liptac</u> , Silvius Stanciu	Labor Force in Romanian Agriculture: a Regional Analysis
OP.4.28 (17 ³⁰ -17 ⁴⁵)	<u>Mihaela Pila</u>	Ural Development Initiatives in Buzău County: Progress and Challenges
OP.4.29 (17 ⁴⁵ -18 ⁰⁰)	<u>Carmen Lazăr (Gurgu-Lazar)</u> , Maria Magdalena Turek Rahoveanu, Silvius Stanciu, Florin Adrian Zugravu	The Fish Market in Romania: Consumption, Evolution, and Future Outlook
OP. 4.30 (18 ⁰⁰ -18 ¹⁵)	<u>Alexandru Ghencea</u> , Silvius Stanciu	Sorghum-Culture of the Future in Europe
OP. 4.31 (18 ¹⁵ -18 ³⁰)	<u>Iulia Maftai</u> , Florin Marian Buhociu, Silviu Stanciu	The food industry in the Republic of Moldova: a case study on the evolution of industrial value for some of the most important agri-food Pre-packaged products one of the non-conformities sold

POSTER SESSION (11:00-13:00)

PP.4.1	<u>Laureana ODAJIU</u>	The Food Bank <u>Of</u> The Republic Of Moldova
PP.4.2	<u>Alexandru GHENCEA</u> , Vitalii ZANET, Silvius STANCIU	The Competition <u>Of</u> Economic Actors On The Market In The Republic Of Moldova. SWOT analysis of development opportunities

THURSDAY – 6th of June 2024

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 (11 ⁰⁰ -11 ¹⁵)	<u>Marian Găiceanu</u> , Răzvan Buhosu, Răzvan Şolea, Vasile Solcanu, Marius George Solomon	Wireless Power Transfer of the Machines and Devices for Mine Integration
--	---	--

ORAL PRESENTATIONS (11:00-15:40)

OP.5.1 (11 ¹⁵ -11 ³⁰)	<u>Marin George-Andrei</u> , Marian Gaiceanu	Improving Power Factor in a Real Three-Phase Power System
OP.5.2 (11 ³⁰ -11 ⁴⁵)	<u>Marin George-Andrei</u> , Marian Gaiceanu	Optimizing Energy Consumption for Sinter Cooling Fans Motors Within the Control Loop
OP.5.3 (11 ⁴⁵ -12 ⁰⁰)	<u>Madalina Gabriela Iorga</u> , Luminita Dumitriu, Mihai Culea	Artificial Neural Network based approaches in the Medical Field: A Comparative Study of Data Sets, Neural Networks, and Diagnostic Software
OP.5.4 (12 ¹⁵ -12 ³⁰)	<u>Madalina Gabriela Iorga</u> , Luminita Dumitriu, Mihai Culea	Studies on Neural Network Performance in Medical Image Recognition: A Focus on Dataset Quality
OP.5.5 (12 ¹⁵ -12 ³⁰)	<u>Marius-George Solomon</u> , Marian Găiceanu, Vasile Solcanu	Optimizing the Operation of a Three-Phase Asynchronous Motor Considering the Thermal Regime and Technological Requirements
OP.5.6 (12 ³⁰ -12 ⁴⁵)	<u>Florin Moize</u> , Mihai Talmaciu, László Barna Iantovics	Characterization and Recognition of {P5,C5} -Free Graphs Using Double P3 Weak Decomposition and its Applications in Combinatorial Optimization
OP.5.7 (12 ⁴⁵ -13 ⁰⁰)	<u>Ionel Stănescu</u> , Marian Gaiceanu	Architecture of the Telepresence System

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

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

Chairs: **Marian Găiceanu, Viorel Mînz**

- | | | |
|---|---|--|
| PP.5.1.
(14 ⁰⁰ -14 ¹⁵) | <u>Marin George- Andrei</u> , Marian Gaiceanu | Analysis of the Electrical Installation Used on a Hybrid Ship |
| PP.5.2.
(14 ¹⁵ -14 ³⁰) | <u>Gigi Tăbăcaru</u> , Simona Moldovanu, Marian Barbu | Neural Networks Application in the Context of Edge Classification |
| PP.5.3.
(14 ³⁰ -14 ⁴⁵) | <u>Paul Iacobescu</u> | Forecasting Crime Trends: a Time Series Analysis Approach |
| PP.5.4.
(14 ⁴⁵ -15 ⁰⁰) | <u>Raluca-Elena Necula</u> | Determination of the Vector Position of a Three-Phase Asynchronous Motor Drive System Using a SKF Dynamic Motor Analyzer |
| PP.5.5.
(15 ¹⁵ -15 ³⁰) | <u>Daniel Voipan</u> , Iulian Vasiliev, Larisa Diaconu, Marian Barbu, | Application of ANN for Precise Measurement and Control in Wastewater Treatment Facilities |
| PP.5.6.
(15 ³⁰ -15 ⁴⁵) | <u>Vasile Solcanu</u> , Marian Găiceanu, Georgiana Marin, Marius Solomon | Electromagnetic Compatibility Issues on Board Military Ships |
| PP.5.7.
(15 ⁴⁵ -16 ⁰⁰) | <u>Răzvan Buhosu</u> , Marian Găiceanu, Marin George- Andrei, Marius George Solomon | Power Injection into the Grid By Means Of The Synchronous Machine |
| PP.5.8.
(16 ¹⁵ -16 ³⁰) | <u>Răzvan Buhosu</u> , Marian Găiceanu, <u>Marin George- Andrei</u> , Marius George Solomon | Electrical Vehicle Wireless Charging System |

16³⁰-17⁰⁰ Coffee Break (Building D 1stfloor)

Concluding remarks/Closing Ceremony

THURSDAY – 6th of June 2024

SECTION 6 (Room AN212)

FUTURE OF ECO-NANOTECHNOLOGIES, FUNCTIONAL MATERIALS AND COATINGS

INVITED LECTURES (14:10-15:10)

- | | | |
|---|-------------------------------------|---|
| IL.6.1.
(14 ¹⁰ -14 ⁴⁰) | <u>Aurel Tăbăcaru</u> | Metal Azolate Coordination Frameworks |
| IL.6.2.
(14 ⁴⁰ -15 ⁰⁰) | <u>Maricica Stoica</u> , Geta Cârâc | Impact of Metal Oxide Nanoparticles used in Active Food Packaging on Human Health |

ORAL PRESENTATIONS (11:00-15:40)

Chairs: **Viorica Mușat, Gheorghe Gurău**

- | | | |
|--|---|---|
| OP.6.1
(15 ¹⁰ -15 ³⁰) | <u>Ionuț Procop</u> , Viorica Mușat | Adsorption Capacity of Zeolite-A Functionalized Nanofiber Membranes for Controlled Release of Plant Nutrients |
| OP.6.2
(15 ³⁰ -15 ⁵⁰) | <u>Elena Ciutac</u> (Nicolaev), Nicoleta Bogatu, Viorica Ghisman, Daniela Buruiană | Advanced Approaches in Innovative Functional Materials Used in Construction |
| OP.6.3
(15 ⁵⁰ -16 ¹⁰) | <u>Tiberiu Alexandru Pirvu</u> , Nicoleta Bogatu, Viorica Ghisman, Daniela Buruiană | The Impact of the Use of Multiple-Effect Munitions on Modern Military Operations |
| OP.6.4
(16 ¹⁰ -16 ³⁰) | <u>Valeriu Smeu</u> , Nicoleta Bogatu, Gabriel Bogdan Carp, Daniela Buruiană | Exploring the Potential of Sequestering Greenhouse Gases from Industry |

16³⁰-17⁰⁰ Coffee Break (Building D 1stfloor)

OP.6.5 (17 ¹⁰ -17 ²⁰)	<u>Cristian Ștefănescu</u> , Gheorghe Gurău	Magnetic Shape Memory Nanocomposites Assembled with High Speed High Pressure Torsion
OP.6.6 (17 ²⁰ -17 ⁴⁰)	<u>Maria Plescan</u> , Nicoleta Bogatu, Viorica Ghisman, Anca Lupu, Daniela Buruiană	Effective Strategies for Protecting Carbon Steel in Marine Environment
OP.6.7 (17 ⁴⁰ -18 ⁰⁰)	<u>Georgiana Ghisman</u> , Nicoleta Bogatu, Viorica Ghisman, Daniela Buruiană	The Recycling of Sewage Sludge to Sustain A Sustainable Agriculture
OP.6.8 (18 ⁰⁰ -18 ²⁰)	<u>Adrian Mazilu</u> , Lidia Benea, Vasile Bașliu	Corrosion Resistance in Seawater of Low Alloy steels BVDH36 an LRAH36

POSTER SESSION (18:20-18:40) online

Chairs: Viorica Mușat, Gheorghe Gurău

PP.6.1 (18 ²⁰ -18 ³⁰)	<u>Alexandra Virginia Bounegru</u> , Iulian Bounegru	Innovative Strategies for Enhancing Electrochemical Sensors Based on Chitosan for Detecting Bioactive Compounds
PP.6.2 (18 ³⁰ -18 ⁴⁰)	<u>Alexandra Ionescu</u> , Iulian Cristian Areș, Rodica Mihaela Dinică, Geta Cârâc	Extract of Pomegranate (<i>Punica granatum L.</i>) as a Solution for Membranes Having Antioxidant Properties
PP.6.3 (18 ⁴⁰ -18 ⁵⁰)	<u>Maricica Stoica</u> , Geta Cârâc	Synergistic Impact of Biocides and Fungi on Metallic Surfaces Intended for Bioprocessing
PP.6.4 (18 ⁵⁰ -19 ⁰⁰)	<u>Iuliana Florina Costea (Nour)</u> , Geta Cârâc	Obtaining of Functionalized Biomaterials Based on Chitosan

Concluding remarks/Closing Ceremony

THURSDAY – 6th of June 2024

SECTION 7 (Room SC2 FOR INFO)

CHEMISTRY - ELECTROCHEMISTRY IN LIFE SCIENCES

ORAL PRESENTATIONS (11:00-13:00)

Chair: Constantin APETREI

OP.7.1 (11 ⁰⁰ -11 ²⁰)	<u>Ana-Raluca Măghinici</u> , Constantin Apetrei	Development of Phenantroline Chemically Modified Electrodes for Diclofenac Detection
OP.7.2 (11 ²⁰ -11 ⁴⁰)	<u>Alexandra-Mariana Ionescu</u> , Andreea-Veronica Botezatu, Bianca Furdui, Alina Viorica Iancu, Camelia Bratu, Costel Vinatoru, Rodica-Mihaela Dinica	<i>Sideritis spp.</i> - Chemical Evaluation and Biological Potential
OP.7.3 (11 ⁴⁰ -12 ⁰⁰)	<u>Maria-Daniela Ionică (Mihăilă)</u> , Raluca Răileanu, Andreea Veronica Botezatu, Alexandra Ionescu, Bianca Furdui, Rodica Mihaela Dinică	Investigation of the Chemical Composition of <i>Iris Pseudacorus</i> from the Danube Delta Biosphere and Cytotoxicity Evaluation
OP.7.4 (12 ⁰⁰ -12 ²⁰)	<u>Andra-Georgiana Trifan</u> , Constantin Apetrei	Detection and Quantification of Melatonin Using Graphene-Based Voltammetric Sensor
OP.7.5 (12 ²⁰ -12 ⁴⁰)	<u>Ana-Maria Mocanu</u> , Andreea Veronica Botezatu-Dediu, Bianca Furdui, Sorin Marius Avramescu, Camelia Bratu, Costel Vanatoru,	Comparative Study of Different Methods for Measuring Antioxidant Activity in <i>Perilla frutescens</i> Extracts Obtained Using Deep

	Mihaela Dragoi-Cudalbeanu, Rodica Mihaela Dinică	Eutectic Solvents
OP.7.6 (12⁴⁰-13⁰⁰)	<u>Alexandra-Mariana Ionescu</u> , Silvia Teodosiade, Andreea-Veronica Botezatu, Bianca Furdui, Camelia Bratu, Costel Vinatoru, Rodica-Mihaela Dinica	<i>Sideritis spp.</i> vs <i>Rumex spp.</i> - Chemical Composition

13⁰⁰-14⁰⁰ Lunch break (Building D 1stfloor)

ORAL PRESENTATIONS (14:00-16:00)

Chair: Rodica DINICĂ

OP.7.7 (14⁰⁰-14²⁰)	<u>Mirela-Livia Samoilă</u> , Aurel Tăbăcaru	Synthesis of Heteroleptic Copper(I) Thiocyanate Complexes and their Evaluation in Fluorescent Detection of Pharmaceutical Substances
OP.7.8 (14²⁰-14⁴⁰)	<u>Andreea-Loredana Comănescu</u> , Andrei-Daniel Geman, Constantin Apetrei	Biosensors Based on Tyrosinase used for the Detection of Olive Oils Adulteration
OP.7.9 (14⁴⁰-15⁰⁰)	<u>Davy Moussango</u> , Ebong Priscil, Tanner Wortham, Andreea Veronica Botezatu, Maria Ionica Mihaila, Tchameni Séverin, Sameza Modeste, Rodica Mihaela Dinica	Chemical Composition and Antifungal Potential of <i>Cymbopogon citratus</i> Essential Oil Nanoemulsion Against <i>Aspergillus sp</i> Responsible for Bean Rot
OP.7.10 (15⁰⁰-15²⁰)	<u>Nguemnang Mabou Lile</u> , Nguouana Vincent, Wandji Yves, Fokom Raymond, Anna Busuioc, Maria Ionica Mihaila, Fekam Fabrice, Rodica Mihaela Dinica	Effect of <i>Syzygium aromaticum</i> Essential Oil Against Fungi Responsible for Postharvest Rot of Groundnut Seeds
OP 7.11 (15²⁰-15⁴⁰)	<u>Mampionona Michela Rasoanirina</u> , Andrianambinina Razakarivony, Dimby Andrianina Ralambomanana, Andreea Veronica Botezatu, Maria Ionica Mihaila, Rivoarison Randrianasolo, Rodica Mihaela Dinica	In-depth Studies on Antioxidant Activities of Extracts from <i>Vaccinium Secundiflorum</i> (<i>Ericaceae</i>), Rich in Polyphenols and Flavonoids

16⁰⁰-16³⁰ Coffee Break (Building D 1stfloor)

Concluding remarks day 1

FRIDAY – 7th of June 2024

SECTION 7

CHEMISTRY - ELECTROCHEMISTRY IN LIFE SCIENCES

ORAL PRESENTATIONS (11:00-15:40)

Chair: Aurel TĂBĂCARU

OP. 7.12 (9⁰⁰-9¹⁰)	<u>Marius Vasile Bardan</u> , Alexandra-Mariana Ionescu, Bianca Cezara Stefan, Andreea Veronica Botezatu, Bianca Furdui, Anna Busuioc, Camelia Bratu, Costel Vinătoru, Rodica-Mihaela Dinică	Ultrasound-Assisted Extraction to Isolate Target Compounds from <i>Artemisia</i> Species
OP. 7.13	<u>Durand Dah-Nouvlessounon</u> , Michaëlle Chokki,	<i>Jatropha multifida</i> L. Used in Benin

- (9¹⁰-9²⁰) Andreea-Veronica Botezatu, Maria Ionica Mihaila, Martial Nounagnon, Baba-Moussa Farid, Ramona Suharoschi, Lamine Baba-Moussa, Rodica Mihaela Dinica Pharmacopoeia as an Antioxidant, Anti-Inflammatory and Antimicrobial Agent
- OP. 7.14 (9²⁰-9³⁰) Fatima Zahra Sadiki, Corina Neagu, Geta Carac, Andreea Veronica Dediu Botezatu, Bene Kouadio, Mohammed Sbiti, Mostafa El Idrissi, Ali Amechrouq, Rodica Mihaela Dinica Valorization of the Essential Oil of *Tetraclinis articulata (Vahl) Masters* as Antioxidant and Antibacterial Agents, and their Incorporation into Gummy Candies
- OP. 7.15 (9³⁰-9⁴⁰) B.D.M. Gallo Mongo, B.F. Mavouba, G.S.A. Amboyi, B. Mbougou-bouesse, S. Ngouomo, Tsiba Gouollaly, Maria Ionica Mihaila, Andreea Veronica Botezatu, T. Andzi Barhé, Rodica Mihaela Dinica Biomolecules as a Drug Candidate for the Solution to the Problems Caused by Microorganisms
- OP. 7.16 (9⁴⁰-9⁵⁰) Koudoro Yaya Alain, Daye Efloric Raphaël, Botezatu Andreea Veronica, Olaye Théophile, Anna Busuioc, Agbangnan Dossa Cokou Pascal, Avlessi Félicien, Sohounhloùé C. K Dominique, Maria Ionica Mihaila, Dinica Rodica Mihaela Formulation of Antiseptic Soap Based on a Hydroethanolic Extract of *Pteleopsis suberosa* leaves, a Plant Used In Benin to Treat Skin Infections
- OP. 7.17 (9⁵⁰-10⁰⁰) Michaëlle Chokki, Cyrille Vodounon, Durand Dah-Nouvlessounon, Sina Haziz, Maria Ionică Mihăilă, Rodica Mihaela Dinica, Lamine Baba-Moussa, Farid Baba-Moussa Pharmacological Property of *Combretum racemosum P. Beauv.* Leaf and Root Extracts Used in Benin
- OP. 7.18 (10⁰⁰-10¹⁰) Mariam Traore, Adjaratou Coulibaly, Esther W. L. M. B. Kabre, Martin Kiendrebeogo, Richard W. Sawadogo, Andreea Veronica Botezatu, Maria Ionica Mihaila, Rodica Mihaela Dinica Phytochemistry and Analgesic Activities of The Methanolic Extract of the Trunk Bark of *Daniellia oliveri (Fabaceae-Caesalpinioideae)*, a Plant Used in Traditional Medicine in West Africa
- OP. 7.19 (10¹⁰-10²⁰) Eliasse Zongo, Roland Nâg-Tiero Meda, Sami Eric Kam, Benjamin Kouliga Koama, Anna Busuioc, Andreea Veronica Botezatu, Maria Daniela Mihaila, Hermann Yempabou Ouoba, Georges Anicet Ouedraogo, Rodica Mihaela Dinica Ethnobotanical Study of Medicinal Plants Used for Viral Hepatitis Treatment in Hauts-Bassins Areas of Burkina Faso
- OP. 7.20 (10²⁰-10³⁰) Eliasse Zongo, Roland Nâg-Tiero Meda, Anna Busuioc, Andreea Veronica Botezatu, Maria Daniela Mihaila, Franck Le Sage Somda, Georges Anicet Ouedraogo, Rodica Mihaela Dinica Antioxidant and Anti-Inflammatory Capacity of *Terminalia avicennioides* Used in the Traditional Treatment of Hepatitis in the Hauts-Bassins Region of Burkina Faso

10³⁰-11¹⁰ Coffee Break (Building D 1stfloor)

ORAL PRESENTATIONS (11:00-15:40)

Chair: Constantin APETREI

- OP. 7.21 (11⁰⁰-11¹⁰) Andra-Georgiana Trifan, Constantin Apetrei Electrochemical Biosensors: Specific Analytical Detection of Melatonin
- OP. 7.22 (11¹⁰-11²⁰) Ana-Raluca Măghinici, Constantin Apetrei Electrochemical Sensors for Non-steroidal Anti-inflammatory Drugs Detection
- OP. 7.23 (11²⁰-11³⁰) Alfred Ngenge Tamfu, Mohammed Mansour Quradha, Selcuk Kucukaydin, Mehmet Emin Duru, Mudassar Iqbal, Abdulkader Moqbel Farhan Qahtan, Rasool Khan, Ozgur Ceylan Evaluation HPLC Profile, Antioxidant, Quorum sensing, Biofilm and Swarming Motility and Enzyme Inhibition Activities of Conventional and Green Extracts of

OP. 7.24 (11³⁰-11⁴⁰)	<u>Amani Kadja</u> , Konan Dibi Jacques, Atsain Marie Rosine épouse Allangba, N'Dri Théotime Woukami Junior, Rodica Mihaela Dinica, Békro Yves-Alain	<i>Salvia triloba</i> Phytochemical Analysis of Phytomedicines Used to Treat Erectile Dysfunction in Côte d'Ivoire
OP. 7.25 (11⁴⁰-11⁵⁰)	<u>Alfred Ngenge Tamfu</u> , Haouaouchi Fatma Zohra, Baya Berka, Boudiba Sameh, Boudiba Louiza, Karima Hanini, Gasmi Salim, Soraya Hioun,	Evaluation of the Effects of <i>Juniperus</i> Essential Oils in Reducing Selected Cigarette Smoke Toxicants and Improvement of <i>In Vivo</i> Oxidative Parameters
OP. 7.26 (11⁵⁰-12⁰⁰)	<u>Harouna Diète Souleymane</u> , Kouakou N'goran David Vincenta, Soro Yaya, Rodica Dinica Mihaela	Effect of Drying and Cooking Methods on the Phytochemical Profile and Antioxidant Activity of <i>Corchorus olitorius</i> (kplala) Leaves From Central Côte d'Ivoire
OP. 7.27 (12⁰⁰-12¹⁰)	<u>Wendkouni Leila Marie Esther Belem-Kabré</u> , Blondine Saïdath Odjo, Mathieu Nitiéma, Maman Noura Oumarou, Boubacar Yaro, Rodica Mihaela Dinica, Elie Kabré, Noufou Ouédraogo	Phytochemical Analysis, Antioxidant and anti-enzymatic activities of Aqueous and Hydroethanolic Extracts of <i>Anastatica</i> <i>hierochuntica</i> L. (<i>Brassicaceae</i>)

13.00-14.00 Concluding remarks. Closing Ceremony