

National Institute for Research-Development  
in Chemistry and Petrochemistry - ICECHIM



The International Symposium

“PRIORITIES OF CHEMISTRY  
FOR A SUSTAINABLE  
DEVELOPMENT”  
PRIOCHEM - XXI

Splaiul Independenței 202, sect. 6, Bucharest



Event organized under the aegis and with the support of the Romanian

**Ministry of Education and Research  
and  
National Authority for Research**



**MINISTERUL EDUCAȚIEI ȘI CERCETĂRII**

**Partners:**



**Romanian Chemical Society**



**Foundation "C. D.  
NENITESCU"**



Media partner



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PHANOS

*All participants via Zoom platform are kindly requested to login with the full name and affiliation*

**The posters in .pdf format must be submitted to the section responsible no later than October 12!**

*Please note that all times indicated in the programme refer to Romania local time (EEST / GMT+3/CEST+2)!*

# Symposium program

## Wednesday October 15<sup>th</sup> 2025

Zoom address for PRIOCHEM day 1

<https://us06web.zoom.us/j/84177215647?pwd=3kJtV7uXbY9aaEjbJRx0tKAYux0FmL.1>

*Meeting ID: 841 7721 5647*

*Passcode: 975342*

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09<sup>00</sup>–

Registration of participants – 3<sup>rd</sup> floor lobby

10<sup>00</sup>

10<sup>00</sup>

**Symposium opening ceremony – Room 1 (3<sup>rd</sup> floor)**

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### PLENARY SESSION

**Chairperson: Mihaela DONI**

**Room 1, 3<sup>rd</sup> floor**

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| No.                                        | Starting time    | Presenter       | Title                                                                    |
|--------------------------------------------|------------------|-----------------|--------------------------------------------------------------------------|
| PS-1                                       | 10 <sup>30</sup> | Fabiana ARDUINI | PAPER-BASED ELECTROCHEMICAL (BIO)SENSORS AS SUSTAINABLE ANALYTICAL TOOLS |
| 11 <sup>00</sup> -11 <sup>15</sup> – Break |                  |                 |                                                                          |

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## SECTIONS PRESENTATIONS

**Chairpersons: Tanța Verona IORDACHE, Andrei SÂRBU**

**11<sup>15</sup>-12<sup>40</sup>**

| No.   | Authors                                                                                                                           | Title                                                                                                                                  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PO-01 | <b>Barkat Ali KHAN</b> , Awais KAREEM                                                                                             | POLYMERIC BIOMATERIAL BASED THIOCOLCHICOSIDE & FOLIC ACID LOADED NANOCOMPOSITE: IN-VITRO AND IN-VIVO ASSESSMENTS                       |
| PO-02 | <b>Aleksandra LUSINA</b> , Michał CEGŁOWSKI                                                                                       | FAPA-MS ENHANCED BY MOLECULARLY IMPRINTED POLYMERS FOR TARGETED ENVIRONMENTAL ANALYSIS                                                 |
| PO-03 | <b>Lucia PINTILIE</b> , Maria MAGANU, Constantin DRAGHICI, Miron Teodor CAPROIU, Mădălina-Diana GABOREANU, Ioana-Cristina MARINAS | THE DESIGN AND DEVELOPMENT OF SOME FLUOROQUINOLONES WITH ACTIVITY AGAINST MULTIDRUG RESISTANT MICROORGANISMS                           |
| PO-04 | <b>Rakhymzhan KOSSANOV</b> , Yessengali GILAZHOV, Amanzhan SAGINAEV, Amangeldi ABILKHAIROV                                        | A COMPUTATIONAL STUDY OF THE EFFECTIVENESS OF TERT-AMYL METHYL ETHER AND ETHYNYLCYCLOPENTANOL AS OCTANE-BOOSTING ADDITIVES IN GASOLINE |
| PO-05 | <b>Miruna-Ioana SAVA</b> , Mihaela DEACONU, Cristian MATEI, Daniela BERGER                                                        | ULVA LACTUCA – A SOURCE OF POLYSACCHARIDES FOR GOLD NANOPARTICLES SYNTHESIS                                                            |
| PO-06 | <b>Alin Gabriel GHEORGHE</b> , Mihaela DEACONU, Ana-Maria BREZOIU, Ana-Maria SECIU, Bogdan TRICĂ, Cristian MATEI, Daniela BERGER  | PROPERTIES OF BIOCOMPOSITE MATERIALS CONTAINING Ag or Au NANOPARTICLES                                                                 |
| PO-07 | <b>Livia-Teodora CIOBANU</b> , Diana CONSTANTINESCU-ARUXANDEI, Florin OANCEA, Ileana Cornelia FARCASANU                           | YEAST SURFACE DISPLAY OF FUNGAL CYSTEINE-RICH PROTEINS FOR BIOGENIC SELENIUM NANOPARTICLES PRODUCTION                                  |

**12<sup>40</sup>-14<sup>00</sup> - Break**

## PLENARY SESSION

**Chairperson: Radu Claudiu FIERĂSCU**

**Room 1, 3<sup>rd</sup> floor**

| No.  | Starting time    | Presenter                                                                   | Title                                                                                              |
|------|------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| PS-2 | 14 <sup>00</sup> | Alvina AVAGYAN, Radu Claudiu FIERASCU, Laura TADEVOSYAN, Gayane MARTIROSYAN | EARLY STEPS AND EMERGING RESULTS IN THE INTRODUCTION OF MULTIFUNCTIONAL PLANT VARIETIES IN ARMENIA |
| PS-3 | 14 <sup>30</sup> | Martin KILO                                                                 | GLASS DOSIMETERS FOR MONITORING THE CLIMATE IN CULTURAL HERITAGE.                                  |

15<sup>00</sup>-15<sup>10</sup> – Break

## SECTION PRESENTATIONS

**Chairpersons: Mihaela DONI, Florin OANCEA**

15<sup>10</sup>-16<sup>00</sup>

| No.   | Authors                                                                                        | Title                                                                                                                                                                  |
|-------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO-08 | Andreea Luiza MIRT, Esin TUNCEL, Gabriel VASILIEVICI, Anton FICAI, Aldo R. BOCCACCINI          | SYNTHESIS OF DENDRITIC BIOACTIVE GLASS NANOPARTICLES AND THEIR APPLICATION IN 3D-PRINTED HYDROGELS FOR BONE TISSUE ENGINEERING                                         |
| PO-09 | Olena ARTIUSHENKO, Aldair VERGEL RANGEL, Volodymyr ZAITSEV                                     | PURIFICATION STRATEGIES FOR BIOCOMPATIBLE N,P-DOPED CARBON DOTS: FROM SYNTHESIS TO SAFE MEDICAL USE                                                                    |
| PO-10 | Aminu Bayawa MUHAMMAD, Aliyu Muhammad SOKOTO, Nura Bala MANGA, Suleiman Abubakar ZAURO         | THERMO-CATALYTIC VALORIZATION OF WASTE PLASTICS INTO FUELS OVER BIMETALLIC NICKEL AND COBALT OXIDES ON ALUMINA                                                         |
| PO-11 | Anca Andreea ZOE, Nicoleta MORARU, Cătălina Cristina TEODORESCU (STANICA), Anca-Daniela RAICIU | PHARMACOGNOSTIC ASPECTS AND PHYTOTHERAPEUTIC APPLICATIONS OF MATRICARIA CHAMOMILLA, MELISSA OFFICINALIS AND HYPERICUM PERFORATUM                                       |
| PO-12 | Maria Aqeel KHAN, Marium ISHTIAQ                                                               | DIAZABICYCLO[2.2.2]OCTANE-DERIVED IONIC LIQUID AS A SUSTAINABLE CATALYST FOR THE SYNTHESIS OF HETEROCYCLES AND THEIR BIOLOGICAL POTENTIAL AS BETA-LACTAMASE INHIBITORS |

## POSTER SESSION

**Chairpersons: Adriana FRONE, Ana Maria GURBAN, Radu Claudiu FIERĂSCU**

**Ground floor lobby**

**16<sup>10</sup>-17<sup>30</sup>**

| No.    | Authors                                                                                                                                     | Title                                                                                                                                               | Monitor |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| PP-1.  | Temenuzhka RADOYKOVA, Stela GEORGIEVA                                                                                                       | ENHANCING THE THERMAL STABILITY OF THERMOPLASTICS USING NATURAL PHENOLIC ANTIOXIDANTS                                                               | 1       |
| PP-2.  | Laura Mihaela STEFAN, Ana-Maria SECIU-GRAMA, Andreea IOSAGEANU, Alexandra GASPAPINTILIESCU, Viorica COROIU, Oana CRACIUNESCU                | INTERACTION OF MULTIFUNCTIONAL POLYMERIC COMPOSITES BASED ON JELLYFISH POLYPEPTIDES, ALOE POLYPHENOLS AND SODIUM ALGINATE WITH SKIN CELLS           | 1       |
| PP-3.  | Norah A ALSAIARI                                                                                                                            | GREEN-SYNTHESIZED SILVER-CALCIUM OXIDE NANOCOMPOSITES: COMPARATIVE BIOLOGICAL ACTIVITIES OF MARJORAM AND PURSLANE EXTRACTS                          | 1       |
| PP-4.  | Otto TODOR-BOER, Bogdan-Ionuț ȘTEFAN, Levente MATHE, Cerasel VARATICEANU, Ioan BOTIZ                                                        | FROM DEPOSITION TO PROCESSING: CONTROLLING ORGANIC DONOR-ACCEPTOR FILM MORPHOLOGY FOR ENHANCED OPTOELECTRONIC PROPERTIES                            | 1       |
| PP-5.  | Abdulov ALMIR, Kenzhebai ADILBEK, Beisenbekova GULZIYA                                                                                      | BOSEAN: PURIFICATION OF WATER BODIES FROM OIL POLLUTION                                                                                             | 1       |
| PP-6.  | Claudia Valentina POPA, Razvan NEAGU, Lucia-Elena IONESCU, Radu-Iulian TANASA, Diana-Mihaela POPESCU, Cristina-Anca SECARA, Maria MARINESCU | THE ANTIBACTERIAL AND ANTIVIRAL ACTIVITIES OF AN HYDROGEL FUNCTIONALIZED WITH A 2-NAPHTHYL-DIHYDROPYRIMIDINE DERIVATE                               | 1       |
| PP-7.  | Maria MARINESCU, Christina ZALARU, Alexandru-Cosmin BĂLOI, Ioan Cristian MIHALACHE, Claudia Valentina POPA                                  | SYNTHESIS, CHARACTERIZATION, ADME AND DFT STUDIES OF SOME PYRIMIDINE COMPOUNDS                                                                      | 1       |
| PP-8.  | Florin Aurel DINCA, Alexandra Gabriela STANCU, Maria RAPA                                                                                   | MICROPLASTIC GENERATION FROM ARTIFICIAL TURFS - A REVIEW                                                                                            | 1       |
| PP-9.  | Ramona-Eugenia POPESCU, Maria RAPA                                                                                                          | PROCESSING METHODS FOR THE VALORIZATION OF SPENT COFFEE GROUNDS – A REVIEW                                                                          | 1       |
| PP-10. | Ramona-Daniela PAVALOIU, Corina BUBUEANU, Diana-Ioana CRISTEA, Teodor Mihai FLORESCU, Fawzia SHA'AT                                         | DEVELOPMENT OF TOPICAL FORMULATION CONTAINING LIPOSOMES LOADED WITH ECHINACEA PURPUREA: PHYSICO-CHEMICAL PROPERTIES AND POLYPHENOL RELEASE DYNAMICS | 2       |

|        |                                                                                                                                                                                                                                      |                                                                                                                                    |   |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---|
| PP-11. | Fawzia SHA'AT, Ramona-Daniela<br>PAVALOIU                                                                                                                                                                                            | DEVELOPMENT AND CHARACTERIZATION<br>OF SENOTHERAPEUTIC-LOADED POSOMES<br>AS AN ANTI-AGEING NANOCARRIER                             | 2 |
| PP-12. | Madina MALIK-SHAPAGAT,<br>Beisenbekova GULZIYA                                                                                                                                                                                       | A MINI-TESTER FOR THE DETERMINATION<br>OF PROCESSES IN FOOD PRODUCTS                                                               | 2 |
| PP-13. | Talap AIYMNUR, Samat MADINA                                                                                                                                                                                                          | ECO-FRIENDLY BANANA PEEL INSOLES                                                                                                   | 2 |
| PP-14. | Khadisha MENDIGALIYEVA                                                                                                                                                                                                               | SO <sub>2</sub> LUTION: AN INNOVATIVE PORTABLE<br>DEVICE FOR AIR PURIFICATION THROUGH<br>CALCIUM HYDROXIDE-BASED<br>NEUTRALIZATION | 2 |
| PP-15. | Lucian-Gabriel ZAMFIR, Cătălina<br>GIFU, Saniye SOYLEMEZ, Dilek<br>SOYLER, Petru EPURE, Iuliana RAUT,<br>Mariana CONSTANTIN, Cristina<br>FIRINCA, Maria-Luiza JECU, Mihaela<br>DONI, Ana-Maria GURBAN                                | BIOSENSING PLATFORMS WITH ADVANCED<br>NANOCOMPOSITES FOR NON-INVASIVE<br>MONITORING OF BIOMARKERS IN<br>BIOLOGICAL FLUIDS          | 2 |
| PP-16. | Georgeta TEODORESCU<br>(DIACONESCU), Daniela Simina<br>STEFAN, Alexia CROITORU                                                                                                                                                       | STUDY OF THE INFLUENCE OF AQUEOUS<br>MEDIA ON THE CHARACTERISTICS OF<br>PLASTIC PACKAGING                                          | 2 |
| PP-17. | Marinela Victoria IORDĂESCU<br>(DUMITRU), Tanța Verona<br>IORDACHE, Ioana Cătălina GÎFU, Ana<br>Mihaela GAVRILĂ, Anita Laura<br>CHIRIAC, Anamaria ZAHARIA,<br>Andrei SÂRBU, Sorin Viorel DOLANA,<br>Iulia Elena NEBLEA, Teodor SANDU | POLYMER MEMBRANES MODIFIED WITH<br>SILANOL MOIETIES                                                                                | 2 |
| PP-18. | Elena Bianca STOICA, Anita Laura<br>CHIRIAC, Anamaria ZAHARIA, Sorin<br>Viorel DOLANA, Nicolae STĂNICĂ,<br>Tanța Verona IORDACHE, Andrei<br>SÂRBU, Andreea Gabriela OLARU,<br>Teodor SANDU                                           | POLYMER COMPOSITES ENDOWED WITH<br>MAGNETIC FEATURES                                                                               | 2 |
| PP-19. | Nuriya AMANGELDI                                                                                                                                                                                                                     | INNOVATIVE TECHNOLOGIES FOR<br>SCALABLE FABRICATION OF GRAPHENE: A<br>MULTIFUNCTIONAL MATERIAL FOR<br>ENVIRONMENTAL PROTECTION     | 3 |
| PP-20. | Aygun RUSTAMOVA, Yegana<br>HAMZAYEVA, Shahin ORUDJEV,<br>Raksana AGAYEVA, Firuza<br>PASHAYEVA, Rovshan<br>MURADKHANOV, Etibar ISMAILOV                                                                                               | ALUMINA-BASED Ni-Fe CATALYST FOR<br>CARBON DIOXIDE REFORMING:<br>STRUCTURAL AND THERMODYNAMIC<br>FEATURES, CATALYTIC PERFORMANCE   | 3 |
| PP-21. | Sevinj OSMANOVA, Aytakin<br>ASGAROVA, Zulfiyya<br>MAMMADOVA, Tamilla ABBASOVA,<br>Aygun RUSTAMOVA, Shahla<br>TAGIYEVA                                                                                                                | ALUMINA BASED NICKEL-IRON CATALYST<br>FOR METHANE PYROLYSIS. SYNTHESIS AND<br>STRUCTURAL PECULIARITIES                             | 3 |

|        |                                                                                                                                                                                                                           |                                                                                                                  |   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---|
| PP-22. | Adelaida-Sorana TRIFU, Iulia-Gabriela DAVID                                                                                                                                                                               | VOLTAMMETRIC DETERMINATION OF DIAZEPAM                                                                           | 3 |
| PP-23. | Violeta-Carolina NICULESCU, Ramona Raluca HANDOLESCU, Nadia PAUN, Claudia SANDRU, Sina Niculina COSMULESCU                                                                                                                | Fe-MODIFIED BIOCHAR: FROM AGRICULTURAL WASTE TO CATALYTIC MATERIAL                                               | 3 |
| PP-24. | Andreea IONIȚĂ, George Mihail TEODORESCU, Gabriela Mădălina OPRICĂ, Cătălina Diana UȘURELU, Gabriel VASILIEVICI, Zina VULUGA                                                                                              | MORPHOLOGY AND TEXTURAL PROPERTIES OF CATION EXCHANGED CLINOPTILOLITE                                            | 3 |
| PP-25. | Monica Florentina RADULY, Valentin RADITOIU, Alina RADITOIU, Cristian-Andi NICOLAE                                                                                                                                        | SILANE-FUNCTIONALIZED SERICITE AS A HYBRID SUPPORT FOR THE IMMOBILIZATION OF BIOACTIVE COMPOUNDS FROM RED CLOVER | 3 |
| PP-26. | Andreea MOLDOVAN, Aurel DIACON, Gabriela TOADER, Martino ALDRIGO, Sergiu IORDĂNESCU, Alexandra MOCANU, Oana BRINCOVEANU, Cosmin ROMANITAN, Traian ROTARIU, Edina RUSEN, Ana Mihaela GAVRILA, Bodan TRICA, Alexandru MARIN | SEMI-INTERPENETRATED POLYMER NETWORK HYDROGELS WITH MO-MXENES FOR TUNABLE ELECTROMAGNETIC INTERFERENCE SHIELDING | 3 |
| PP-27. | Gabriela TOADER, Aurel DIACON, Alexandra MOCANU, Livia A. DINU, Pericle VARASTEANU, Oana BRINCOVEANU, Cosmin ROMANITAN, Mioara ALEXANDRU, Florina L. ZORILA, Celina DAMIAN, Edina RUSEN, Raul A. MITRAN                   | MXENE-POLYMER NANOCOMPOSITES AS VERSATILE PLATFORMS FOR ADVANCED FUNCTIONAL MATERIALS                            | 3 |
| PP-28. | Cătălina ȘTEFAN, Raluca ȘUICĂ-BUNGHEZ, Mihaela GANCIAROV, Raluca SENIN, Luiza CAPRA, Georgeta IVAN, Rusândica STOICA                                                                                                      | EVALUATION OF PHYTOCHEMICAL COMPOUNDS AND ANTIOXIDANT ACTIVITY OF ALOE ARBORESCENS                               | 3 |
| PP-29. | Georgeta-Ramona IVAN, Luiza CAPRA, Mihaela GANCIAROV, Rusandica STOICA                                                                                                                                                    | VALIDATION OF THE METHOD FOR DETERMINATION OF ZINC, ALUMINUM AND TITANIUM IN POLYOLEFINS PACKAGING BY ICP-OES    | 3 |

**Thursday October 16<sup>th</sup> 2025**

**Zoom address for PRIOCHEM day 2**

***<https://us06web.zoom.us/j/86353954591?pwd=6wnTLCTdvjRyWl39Qwid8oTbTmgw.1>***

***Meeting ID: 863 5395 4591***

***Passcode: 889153***

**PLEANRY & INVITED LECTURES**

**Chairpersons: Mihaela DONI, Radu Claudiu FIERĂSCU**

**Room 1, 3<sup>rd</sup> floor**

| No.                                               | Starting<br>time | Presenter                                                                                                                                                                                                              | Title                                                                                           |
|---------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| PS-4                                              | 10 <sup>00</sup> | Dan-Adrian VASILE, Gabriela PETRISOR,<br>Rucsandra DUMITRESCU, Ludmila MOTELICA.<br>Natalia DRAGUT, Angela SPOIALA, Roxana<br>TRUSCA, Ovidiu OPREA, Dan MIHAIESCU,<br>Coralia BLEOTU, Denisa FICAI, <b>Anton FICAI</b> | MESOPOROUS SILICA: AN EMERGING<br>ACTIVE MATERIAL FOR FUTURE<br>APPLICATIONS!                   |
| IL-1                                              | 10 <sup>30</sup> | <b>Mădălina - Elena ARGĂSEALĂ</b>                                                                                                                                                                                      | EUROPEAN FUNDING OPPORTUNITIES IN<br>THE BIOECONOMY AND BEYOND: INSIGHTS<br>AND SUCCESS STORIES |
| 11 <sup>00</sup> -11 <sup>20</sup> - Coffee break |                  |                                                                                                                                                                                                                        |                                                                                                 |

## SECTION PRESENTATIONS

**Chairpersons: Florin OANCEA, Gabriel VASILIEVICI**

**11<sup>20</sup>-13<sup>00</sup>**

| No.   | Authors                                                                                                                                                           | Title                                                                                                                            |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| PO-13 | <b>Adina SAILAU</b> , Aibibi MAUITOVA, Abbas Syed ASIF                                                                                                            | AI-OPTIMIZED ALGAE CULTIVATION FOR SUSTAINABLE BIODIESEL PRODUCTION                                                              |
| PO-14 | <b>Ramina DOSZHAN</b> , Akbota YERSULTAN                                                                                                                          | COMPARATIVE STUDY OF BANANA AND ORANGE PEEL-DERIVED BIO-CHAR FOR EFFICIENT WATER PURIFICATION                                    |
| PO-15 | <b>Salihu Abdullahi KIYAWA</b> , Musa Muhammed IBRAHIM, Mohammed MU'AZU                                                                                           | ESTIMATION AND HEALTH RISK ASSESSMENT OF POLYCYCLIC AROMATIC HYDROCARBONS IN LOCALLY-ROASTED MEATS MARKETING IN ZARIA, NIGERIA   |
| PO-16 | Hatem A.F.M. HASSAN, Nada K. SEDKY, Mohamed S. NAFIE, Noha Khalil MAHDY, Iten M. FAWZY, Toka Waleed FAYED, Eduard PREIS, Udo BAKOWSKY, <b>Sherif Ashraf FAHMY</b> | ECO-ENGINEERED ZINC OXIDE NANOCARRIERS: A GREEN MICROWAVE-NATURAL PRODUCT STRATEGY FOR SUSTAINABLE PLATINUM-BASED CANCER THERAPY |
| PO-17 | <b>Yerkebulan ZHASULANULY</b>                                                                                                                                     | MULTIFUNCTIONAL EGGSHELL WASTE BEADS                                                                                             |
| PO-18 | <b>Elina KAIRATOVA</b> , Asif Abbas Syed                                                                                                                          | ECO-FRIENDLY DISHWASHING LIQUID FROM ORANGE AND BANANA PEELS: A SUSTAINABLE SOLUTION TO CHEMICAL POLLUTION                       |
| PO-19 | <b>Didarkyzy BALNUR</b> , Amirzhan Madina BEYBITKYZY, Beisenbekova GULZIYA                                                                                        | ALFAPURE: A BIOFILTER BASED ON FOOD WASTE AND ALFALFA FOR THE REMOVAL OF HEAVY METALS AND PETROLEUM PRODUCTS FROM WATER BODIES   |
| PO-20 | <b>Grigore PȘENOVSCI</b> , Ioan CĂLINESCU, Ciprian-Gabriel CHISEGA-NEGRILĂ                                                                                        | ADVANCED ULTRASOUND-ASSISTED EXTRACTION OF BIOACTIVE COMPOUNDS FROM BEE PRODUCTS                                                 |

**13<sup>00</sup>-14<sup>00</sup> –Break**

## Tech Talks – Meet the mentors!

### Technology Transfer – Challenges and Opportunities

**Room 1, 3<sup>rd</sup> floor**

**14<sup>00</sup>-15<sup>00</sup>**

**Moderator: Radu Claudiu FIERĂSCU**

| Participants/institutions                        |
|--------------------------------------------------|
| EPI SISTEM S.R.L.                                |
| HOFIGAL EXPORT-IMPORT S.A.                       |
| S.C. KEMATRONIC S.R.L.                           |
| NEW GREEN PROTOCOL S.R.L.                        |
| VIMANDO BUSINESS CONSULTING & DEVELOPMENT S.R.L. |

## PLENARY SESSION & AUTHOR TRAINING

**Chairpersons: Ana Mihaela GAVRILĂ, Radu Claudiu FIERĂSCU**

**Room 1, 3<sup>rd</sup> floor**

**15<sup>00</sup>-16<sup>30</sup>**

| No.  | Starting time    | Presenter                                                      | Title                                                                                |
|------|------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------|
| PS-5 | 15 <sup>00</sup> | Ridha DJELLABI                                                 | SOLAR SUPERHEATED STEAM FOR STERILIZATION AND H <sub>2</sub> GENERATION              |
| SP-1 | 15 <sup>30</sup> | Emily YOUNG ( <i>Journal Manager Frontiers in Materials</i> ): | TIPS AND TRICKS AND IMPORTANCE OF OPEN-ACCESS PUBLISHING                             |
| PS-6 | 16 <sup>00</sup> | Qais M. AL-BATAINEH,<br>Ahmad Ali H. OMARI, Ahmad MIGDADI      | ELECTROCHEMICAL PERFORMANCE OF Er-DOPED TITANIA FILM FOR ENERGY STORAGE APPLICATIONS |

**Chairpersons: Adriana FRONE, Ana Maria GURBAN, Radu Claudiu FIERĂSCU**

| No.    | Authors                                                                                                                                                                                                                                                | Title                                                                                                                             | Monitor |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------|
| PP-30. | Aizere ANDOSSOVA, Asif Abbas SYED                                                                                                                                                                                                                      | PARA-OLEUM FLUID (POF): A NOVEL MAGNETIC NANOTECHNOLOGY FOR INCREASED OIL RECOVERY FROM CONTAMINATED SOIL AND OIL SPILL INCIDENTS | 1       |
| PP-31. | Ansagan KABDELOVA                                                                                                                                                                                                                                      | THE WATER FILTER "ANSAQUA"                                                                                                        | 1       |
| PP-32. | Ayaulim AMANGOSQZY, Rakhymzhan KOSSANOV, Asif Abbas SYED                                                                                                                                                                                               | EVALUATION OF PEGANUM HARMALA EXTRACT AS A NATURAL SHAMPOO INGREDIENT                                                             | 1       |
| PP-33. | Toma FISTOS, Madalin Vasile COMAN, Denisa FICAI, Irina FIERASCU, Ionel Claudiu BADEA, Andrei Dragos MARCU, Irina Elena CHICAN, Cristian-Andi NICOLAE, Ludmila MOTELICA, Roxana Doina TRUSCA, Ovidiu Cristian OPREA, Anton FICAI, Radu Claudiu FIERASCU | SUSTAINABLE PROTECTION OF ARCHITECTURAL HERITAGE THROUGH SILANE-NANOPARTICLE HYBRID TREATMENTS                                    | 1       |
| PP-34. | Roxana Ioana MATEI, Irina FIERASCU, Anda Maria BAROI, Toma FISTOS, Ioana Silvia HOSU, Irina Elena CHICAN, Cristina Emanuela ENASCUTA, Luiza CAPRA, Georgeta Ramona IVAN, Rodica Mihaela FRINCU, Sorin Marius AVRAMESCU, Radu Claudiu FIERASCU          | EFFICIENT CADMIUM RETENTION FROM POLLUTED WATER USING NOVEL ADSORBENT MATERIALS                                                   | 1       |
| PP-35. | Irina FIERASCU, Adriana MOANTA, Anda Maria BAROI, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Irina Elena CHICAN, Cristina ENASCUTA, Radu Claudiu FIERASCU                                                                                     | "GREEN SOLUTIONS" FOR CULTURAL HERITAGE PROTECTION: A SUSTAINABLE APPROACH THROUGH INTERDISCIPLINARY INNOVATION                   | 1       |
| PP-36. | Cristina Emanuela ENASCUTA, Manuel DRUGULESCU, Elena-Emilia SIRBU, Irina FIERASCU, Diana PASARIN, Raluca SENIN, Ioana Raluca SUICA-BUNGHEZ, Grigore PSENOVSCHI, Radu Claudiu FIERASCU, Vasile LAVRIC                                                   | ADVANCED ULTRASOUND-ASSISTED EXTRACTION OF BIOACTIVE COMPOUNDS FROM BEE PRODUCTS                                                  | 1       |
| PP-37. | Anda Maria BAROI, Daniela IONESCU, Irina FIERASCU, Cristina Emanuela ENASCUTA, Justinian-Andrei                                                                                                                                                        | FROM WASTE TO PROTECTION: CIRCULAR STRATEGIES FOR SUSTAINABLE MAP CULTIVATION                                                     | 1       |

|        |                                                                                                                                                                                                    |                                                                                                                                                                                                                      |   |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|        | TOMESCU, Stefan BUHAEV, Cristina Mihaela LUNTRARU, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Irina Elena CHICAN, Radu Claudiu FIERASCU                                                   |                                                                                                                                                                                                                      |   |
| PP-38. | Anda Maria BAROI, Irina Elena CHICAN, Daniela IONESCU, Alina Ruxandra Eugenia ORȚAN, Radu Claudiu FIERĂSCU, Justinian – Andrei TOMESCU, Carmen Laura CÎMPEANU                                      | CLEAN & GREEN: INNOVATIVE SOLUTIONS FOR FRESH PRODUCE IN A SUSTAINABLE FOOD CHAIN                                                                                                                                    | 1 |
| PP-39. | Alexandra MANEA, Andrei Theodor BELEA, Alina ORȚAN, Irina Elena CHICAN, Daniela IONESCU, Mihaela AVRAM, Cristina Mihaela LUNTRARU, Justinian-Andrei TOMESCU                                        | COMPARATIVE ANTIMICROBIAL EFFICACY OF KOMBUCHA-DERIVED VINEGAR AND CONVENTIONAL VINEGAR SOLUTIONS FOR REDUCING POST-HARVEST MICROBIAL CONTAMINATION ON FRESH MARKET APPLES: AN ECO-FRIENDLY DECONTAMINATION APPROACH | 1 |
| PP-40. | Andrei Ionut COCA, Paula CISMARU, Mircea COMAN, Martin MONDEK, Anda-Maria BAROI, Roxana Ioana MATEI (BRAZDIȘ), Toma FISTOȘ, Irina CHICAN, Irina FIERĂSCU, Radu-Claudiu FIERĂSCU, Ioana Silvia HOSU | COMPUTATIONAL DENSITY-FUNCTIONAL THEORY (DFT) OF REACTIVE OXYGEN SPECIES (ROS) AND INTERFERING SPECIES - COMPARISON WITH EXPERIMENTAL VIBRATIONAL SPECTROSCOPY                                                       | 1 |
| PP-41. | Amanat CHAPAY                                                                                                                                                                                      | WASTE-TO-ENERGY: THE POTENTIAL OF RDF FUEL AND ITS APPLICATION IN WASTE RECYCLING                                                                                                                                    | 2 |
| PP-42. | Nurym NURTAS                                                                                                                                                                                       | DEVELOPMENT OF ELECTROSTATIC FILTERS FOR REDUCING SULFUR EMISSIONS AT THE ATYRAU OIL REFINERY                                                                                                                        | 2 |
| PP-43. | Elnaz SMADYAROVA, Aruzhan GARIFULLA, Beisenbekova GULZIYA, Kurmashev ERBOLAT                                                                                                                       | ECO-FRIENDLY STARCH PRODUCTION                                                                                                                                                                                       | 2 |
| PP-44. | Alexandra GASPARG-PINTILIESCU, Ana-Maria SECIU-GRAMA, Andreea IOSAGEANU, Ana-Maria PRELIPCEAN, Justinian TOMESCU, Viorica COROIU, Oana CRACIUNESCU                                                 | WORMWOOD HYDROLATE UP-REGULATED VEGF SYNTHESIS AND PROTECTED MOUSE ENDOTHELIAL CELLS AGAINST LIPOPOLYSACCHARIDE-INDUCED OXIDATIVE DAMAGE                                                                             | 2 |
| PP-45. | Elena MIHAI, Alexandra GASPARG-PINTILIESCU, Bogdan NEGREANU-PIRJOL, Rodica TATIA, Ticuta NEGREANU-PIRJOL, Oana CRACIUNESCU                                                                         | ANTIOXIDANT PEPTIDES FROM RHIZOSTOMA PULMO JELLYFISH FOR BIOMEDICAL APPLICATIONS                                                                                                                                     | 2 |
| PP-46. | Roxana-Mădălina STOICA, Nicoleta ENE                                                                                                                                                               | EVALUATION OF THE ANTIMICROBIAL POTENTIAL OF BIOSURFACTANT PRODUCED BY <i>PSEUDOMONAS PUTIDA</i> STRAIN                                                                                                              | 2 |
| PP-47. | Diana PASARIN, Catalin BILBIE, Luciana PALADA-PARASCHIV, Cristina Emanuela ENASCUTA, Catalin                                                                                                       | APPLICATIONS OF LIPOSOMES IN THE FOOD INDUSTRY                                                                                                                                                                       | 2 |

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---|
| Bogdan MATEI, Andra-Ionela GHIZDAREANU |                                                                                                                                                                            |                                                                                                                                 |   |
| PP-48.                                 | Florina LUNGU (IONITA), Simina Daniela STEFAN, Alexandra GROSU                                                                                                             | STUDY OF IBUPROFEN RETENTION ON VARIOUS ADSORBENTS                                                                              | 2 |
| PP-49.                                 | Alexandrina RUGINĂ, Gabriel Lucian RADU, Mihaela Marinela PĂUN, Cătălin IORDĂCHEL, Andreia ALECU, Elena BERTEANU, Ionică Mihaela ENACHE                                    | BIOPOLYMERIC MEMBRANE BASED ON COLLAGEN AND RETINOL FOR HYDRATION AND REGENERATION OF THE SKIN                                  | 2 |
| PP-50.                                 | Denisa FICAI, Ludmila MOTELICA, Roxana Doina TRUSCA, Irina FIERASCU, Madalin Vasile COMAN, Radu Claudiu FIERASCU, Ovidiu Cristian OPREA, Anton FICAI, Ecaterina ANDRONESCU | DEVELOPMENT OF ANTIMICROBIAL CLAYS AS ADDITIVES FOR SPECIAL MATERIALS WITH POTENTIAL USE IN CULTURAL HERITAGE                   | 2 |
| PP-51.                                 | Alina ORTAN, Simona MARCU SPINU, Mihaela DRAGOI CUDALBEANU, Daniela IONESCU, Justinian-Andrei TOMESCU, Carmen CIMPEANU                                                     | DEVELOPMENT OF BIOACTIVE EDIBLE COATINGS FOR EXTENDED SHELF-LIFE OF FRUITS                                                      | 2 |
| PP-52.                                 | Medina DAUT, Asif Abbas SYED                                                                                                                                               | A GREEN APPROACH TO ZNO DYE-SENSITIZED SOLAR CELLS: FABRICATION WITH NATURAL EXTRACTS                                           | 3 |
| PP-53.                                 | Iuliana RĂUT, Lucian-Gabriel ZAMFIR, Cristina FIRINCĂ, Mariana CONSTANTIN, Luiza JECU, Ana-Maria GURBAN                                                                    | EXPLORING MICROBIAL STRATEGIES FOR PHENOL BIODEGRADATION IN CONTAMINATED ENVIRONMENTS                                           | 3 |
| PP-54.                                 | Maria-Cristina RADULESCU, Madalina-Petruta BUCUR, Bogdan BUCUR, Simona Carmen LITESCU FILIPESCU, Lucian Gabriel RADU                                                       | DIAZONIUM SALTS ELECTROCHEMICAL SENSOR FOR HEAVY METALS DETECTION IN TOMATO SAMPLES                                             | 3 |
| PP-55.                                 | Cristina FIRINCĂ, Lucian-Gabriel ZAMFIR, Iuliana RĂUT, Mariana CONSTANTIN, Radu FIERĂSCU, Luiza Capră, Mihaela DONI, Luiza JECU, Ana-Maria GURBAN, Tatiana ȘESAN           | SYNERGISTIC FUNGAL-PLANT SYSTEMS INTEGRATED WITH ELECTROCHEMICAL MONITORING FOR SUSTAINABLE HEAVY METAL REMEDIATION IN SOIL     | 3 |
| PP-56.                                 | Nicoleta RADU, Mihaela BOTEAN, Mariana CALIN, Iuliana RAUT                                                                                                                 | CAN THE MICROORGANISMS USED IN SUSTAINABLE AGRICULTURE ENSURE THE BIOREMEDIATION OF HEAVY METAL EFFLUENTS?                      | 3 |
| PP-57.                                 | Ecaterina-Andreea CONSTANTIN, Camelia DIGUȚĂ, Florentina MATEI, Diana CONSTANTINESC-ARUXANDEI, Florin OANCEA                                                               | CHARACTERIZATION OF MICROBIAL INTERACTIONS IN THE SPONTANEOUS FERMENTATION OF A TRADITIONAL ROMANIAN PRODUCT, BORȘ              | 3 |
| PP-58.                                 | Naomi TRITEAN, Ioana POPA-TUDOR, Ștefan-Ovidiu DIMA, Bogdan TRICĂ, Marius GHIUREA, Anisoara                                                                                | MUCOADHESIVE HYDROGELS BASED ON BACTERIAL CELLULOSE FROM KOMBUCHA FERMENTATION AND VEGETAL CELLULOSE FROM BREWER'S SPENT GRAINS | 3 |

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|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---|
|        | CIMPEAN, Florin OANCEA, Diana<br>CONSTANTINESCU-ARUXANDEI                                                                                                                   |                                                                                                                     |   |
| PP-59. | Daria Gabriela POPA, Oana Andreea<br>CHEOAFĂ, Diana<br>CONSTANTINESCU-ARUXANDEI,<br>Florin OANCEA                                                                           | ENHANCED GROWTH OF CHORELLA<br>SOROKINIANA BY LIGNOSULFONATE<br>SUPPLEMENTATION                                     | 3 |
| PP-60. | Maria-Antonia TĂNASE, Ștefan-Ovidiu<br>DIMA, Mihaela GANCIAROV, Cristian<br>Andi NICOLAE, Bogdan TRICĂ, Victor<br>FARAON, Diana CONSTANTINESCU-<br>ARUXANDEI, Florin OANCEA | ORGANOSOLV EXTRACTION OF LIGNIN<br>FROM SAWDUST AND SPENT MUSHROOM<br>SUBSTRAT                                      | 3 |
| PP-61. | Luminita DIMITRIU, Diana<br>CONSTANTINESCU-ARUXANDEI,<br>Daniel PREDA, Cristian-Andi<br>NICOLAE, Mihaela GANCIAROV,<br>Marius GHIUREA, Florin OANCEA                        | HYDROGEN-BONDING NETWORKS IN<br>NATURAL DEEP EUTECTIC SYSTEMS<br>MODULATE THE FUNCTIONAL BEHAVIOR<br>OF POLYPHENOLS | 3 |

**Friday October 17<sup>th</sup> 2025**

**Zoom address for PRIOCHEM day 3**

<https://us06web.zoom.us/j/81013450418?pwd=houuTOW9bKBdEaR76C2wDTSwxk9LaL.1>

**Meeting ID: 810 1345 0418**

**Passcode: 765622**

**PLENARY SESSION**

**Chairpersons: Tanța Verona IORDACHE, Radu Claudiu FIERĂSCU**  
**Room 1, 3<sup>rd</sup> floor**

| No.   | Starting time    | Presenter              | Title                                                                                                                             |
|-------|------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PS-7  | 09 <sup>30</sup> | Mahmoud H. Abu ELELLA  | RECENT ADVANCES IN MODIFIED CHITOSAN-BASED DRUG DELIVERY SYSTEMS FOR TRANSMUCOSAL APPLICATIONS                                    |
| PS-8  | 10 <sup>00</sup> | Gianluca VISCUSI       | GREEN APPROACHES TO DESIGN NOVEL ADSORBENTS FOR WATER DECONTAMINATION                                                             |
| PS-9  | 10 <sup>30</sup> | Francois-Xavier PERRIN | CEMENTITIOUS COATINGS: A REALISTIC PROTECTIVE ALTERNATIVE TO ORGANIC COATINGS?                                                    |
| PS-10 | 11 <sup>00</sup> | Michal CEGLOWSKI       | ADDRESSING TRACE CONTAMINANT CHALLENGES: NOVEL APPLICATIONS OF POROUS ADSORBENTS AND MOLECULARLY IMPRINTED POLYMERS IN AMBIENT MS |

11<sup>30</sup>-11<sup>40</sup> – Break

11<sup>40</sup>-12<sup>30</sup> My poster in 100 seconds!

**Chairpersons: Adriana FRONE, Ana Maria GURBAN**

| No. | Authors                                                                                                 | Title                                                                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Iorin Aurel Dincă, Alexandra Gabriela Stancu, Maria Râpă                                                | MICROPLASTIC GENERATION FROM ARTIFICIAL TURFS - A REVIEW                                                                                                            |
| 2   | Alexandra Manea, Andrei Theodor Belea, Alina Ortan, Irina Elena Chican, Daniela Ionescu, Mihaela Avram, | COMPARATIVE ANTIMICROBIAL EFFICACY OF KOMBUCHA-DERIVED VINEGAR AND CONVENTIONAL VINEGAR SOLUTIONS FOR REDUCING POST-HARVEST MICROBIAL CONTAMINATION ON FRESH MARKET |

|    |                                                                                                                                    |                                                                                                                                   |
|----|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|    | Cristina Mihaela Luntraru, Justinian-Andrei Tomescu                                                                                | APPLES: AN ECO-FRIENDLY DECONTAMINATION APPROACH                                                                                  |
| 3  | <b>Georgeta Teodorescu (Diaconescu)</b> , Daniela Simina Stefan, Alexia Croitoru                                                   | STUDY OF THE INFLUENCE OF AQUEOUS MEDIA ON THE CHARACTERISTICS OF PLASTIC PACKAGING                                               |
| 4  | Sevinj Osmanova, <b>Aytakin Asgarova</b> , Zulfiyya Mammadova, Tamilla Abbasova, Aygun Rustamova, Shahla Tagiyeva                  | ALUMINA BASED NICKEL-IRON CATALYST FOR METHANE PYROLYSIS. SYNTHESIS AND STRUCTURAL PECULIARITIES                                  |
| 5  | Aygun Rustamova, <b>Yegana Hamzayeva</b> , Shahin Orudjev, Raksana Agayeva, Firuza Pashayeva, Rovshan Muradkhanov, Etibar Ismailov | ALUMINA-BASED Ni-Fe CATALYST FOR CARBON DIOXIDE REFORMING: STRUCTURAL AND THERMODYNAMIC FEATURES, CATALYTIC PERFORMANCE           |
| 6  | <b>Abdullo Almir</b> , Kenzhebai Adilbek, Beisenbekova Gulziya                                                                     | BOSEAN: PURIFICATION OF WATER BODIES FROM OIL POLLUTION                                                                           |
| 7  | <b>Aizere Andossova</b> , Asif Abbas Syed                                                                                          | PARA-OLEUM FLUID (POF): A NOVEL MAGNETIC NANOTECHNOLOGY FOR INCREASED OIL RECOVERY FROM CONTAMINATED SOIL AND OIL SPILL INCIDENTS |
| 8  | Ansagan Kadelova                                                                                                                   | THE WATER FILTER "ANSAQUA"                                                                                                        |
| 9  | Khadisha Mendigaliyeva                                                                                                             | SO <sub>2</sub> LUTION: AN INNOVATIVE PORTABLE DEVICE FOR AIR PURIFICATION THROUGH CALCIUM HYDROXIDE-BASED NEUTRALIZATION         |
| 10 | <b>Madina Malik-Shapagat</b> , Beisenbekova Gulziya                                                                                | A MINI-TESTER FOR THE DETERMINATION OF PROCESSES IN FOOD PRODUCTS                                                                 |
| 11 | Nuriya Amangeldi                                                                                                                   | INNOVATIVE TECHNOLOGIES FOR SCALABLE FABRICATION OF GRAPHENE: A MULTIFUNCTIONAL MATERIAL FOR ENVIRONMENTAL PROTECTION             |
| 12 | <b>Elnaz Smadyarova</b> , Aruzhan Garifulla, Beisenbekova Gulziya, Kurmashev Erbolat                                               | ECO-FRIENDLY STARCH PRODUCTION                                                                                                    |
| 13 | Nurym Nurtas                                                                                                                       | DEVELOPMENT OF ELECTROSTATIC FILTERS FOR REDUCING SULFUR EMISSIONS AT THE ATYRAU OIL REFINERY                                     |
| 14 | <b>Ayaulim Amangosqyzy</b> , Rakhymzhan Kossanov, Asif Abbas Syed                                                                  | EVALUATION OF PEGANUM HARMALA EXTRACT AS A NATURAL SHAMPOO INGREDIENT                                                             |
| 15 | Amanat Chapay                                                                                                                      | WASTE-TO-ENERGY: THE POTENTIAL OF RDF FUEL AND ITS APPLICATION IN WASTE RECYCLING                                                 |
| 16 | <b>Talap Aiymnur</b> , Samat Madina                                                                                                | ECO-FRIENDLY BANANA PEEL INSOLES                                                                                                  |
| 17 | <b>Medina Daut</b> , Asif Abbas Syed                                                                                               | A GREEN APPROACH TO ZNO DYE-SENSITIZED SOLAR CELLS: FABRICATION WITH NATURAL EXTRACTS                                             |

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12<sup>30</sup>-13<sup>00</sup> – Break

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**PLENARY SESSION & AUTHOR TRAINING**

**Chairperson: Mihaela DONI**

**Room 1, 3<sup>rd</sup> floor**

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| No.  | Starting time    | Presenter                                                                                 | Title                        |
|------|------------------|-------------------------------------------------------------------------------------------|------------------------------|
| SP-2 | 13 <sup>00</sup> | Iustina BOSTAN (Journal Relations Specialist,<br>MDPI OPEN ACCESS Publishing Romania SRL) | ETHICAL ISSUES IN PUBLISHING |
| IL-2 | 13 <sup>30</sup> | Andrei SÂRBU (Romanian Chemical Society)                                                  |                              |

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13<sup>45</sup>

**Symposium closing & award ceremony**

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## Associated events

### Tuesday, 14.10.2025

| No. | Starting time    | Moderator             | Room                           | Title                                                                                                                                                                                         |
|-----|------------------|-----------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| W-1 | 10 <sup>00</sup> | -                     | Room 1 (3 <sup>rd</sup> floor) | Parteneriate, Sinergii și Instrumente pentru Inovare și Dezvoltare!                                                                                                                           |
| W-2 | 14 <sup>00</sup> | Nicolae VARACHIU      | Room 1 (3 <sup>rd</sup> floor) | Research and Innovation - societal impact                                                                                                                                                     |
| W-3 | TBA              | Radu Claudiu FIERĂSCU | TBA                            | Abordare integrată pentru protecția mediului – AquaMat                                                                                                                                        |
| W-4 | TBA              | Radu Claudiu FIERASCU | TBA                            | Innovative approach for the protection of medicinal and aromatic plant crops – between circular bioeconomy and nanotechnology                                                                 |
| W-5 | TBA              | Irina FIERASCU        | TBA                            | Transdisciplinary approach for the modern formulation of construction materials, a paradigm shift in the protection of immovable cultural heritage                                            |
| W-6 | TBA              | Irina Elena CHICAN    | TBA                            | Advanced ecological solutions to increase the food safety of vegetables and fruits, from producer to consumer                                                                                 |
| W-7 | TBA              | Ioana Silvia HOSU     | TBA                            | Research on the development of sustainable technologies for obtaining and capitalizing on innovative ingredients and food products, for the nutritional balance of the modern consumer's diet |

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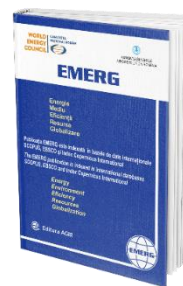
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