“Dunărea de Jos” University of Galați
Romanian Chemical Society
Ministry of Education & Research

CONFERENCE PROGRAM

1st edition of the

INTERNATIONAL CONFERENCE ON FUNDAMENTAL AND APPLIED CHEMISTRY - NEW FRONTIERS FOR A SUSTAINABLE LIFE

« CHEMSUSLIFE »

8 – 10 October 2026, GALAȚI, ROMANIA

“Dunărea de Jos” University of Galați
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ORGANIZERS

- **"Dunărea de Jos" University of Galați**
- **Romanian Chemical Society**
- **Ministry of Education & Research – FSS no 351/25/GP/22.05.2026**

CHEMSUSLIFE 2026 CONFERENCE

1st Edition

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- VAN STADEN Raluca Ioana, National University of Science and Technology POLITEHNICA of Bucharest, RO
- VÎNĂTORU Costel, Plant Genetic Resources Bank for Vegetable, Floriculture, Aromatic and Medicinal Plants, Buzău, RO

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- RĂILEANU Raluca-Nicoleta, PhD Student, "Dunărea de Jos" University of Galați, RO

With the valuable support of the Accounting and Administrative Departments

Presentation time (discussion included)

- **Plenary Conference** (PL): 30 minutes
- **Keynote lecture** (KN): 20 minutes
- **Oral Presentation** (OP): 10 minutes
- **Online presentations** (ON): 10 minutes

Posters program

- Posters printing in A1 format is recommended.
- The posters will be shown on the poster panels at the indicated session.
- The posters from Session 1 (PP-1) will be shown on Thursday, October 8, during the lunch break and will be removed after 18:00.
- The posters from Session 2 (PP-2) will be shown on Friday, October 9, during the lunch break and will be removed after 18:00.
- Attendance at the workshops on the Rexdan vessel requires a ticket.

Scientific Program, Thursday, 08 October

Aula Alexandru Ioan Cuza (Aula Magna), 111 Domnească Street

08^{00} - 15^{00}
Registration of the participants

09^{30} - 10^{00}
Opening Ceremony
Prof. PhD. habil. Rodica Mihaela DINICĂ
Head of the Department of Chemistry, Physics, and Environment, Faculty of Sciences and Environment
Local authorities and University representatives

Scientific Session 1

Aula Alexandru Ioan Cuza (Aula Magna),
111 Domnească Street, 10^{00} – 11^{20}

Session chairs:
CS I PhD. Marcela MIHAI, "Petru Poni" Institute of Macromolecular Chemistry
Prof. PhD. Csaba PAIZS, "Babeș-Bolyai" University of Cluj

10^{00} – 10^{30}
PL.1. **Andreas BUND**, Adriana Ispas, Andreas Winter, Jonas Rehbein, Richard Kübler, Christian Höß
Technische Universität Ilmenau, Electrochemistry and ElectropIating Group, Ilmenau, Germany
Production of Hydrogen via Electrolysis of Water - Prospects and Challenges

10^{30} – 11^{00}
PL.2. Violeta Mangalagiu, Zbancioc, Gheorghe, Moldoveanu, Costel, Ramona Danac, Dumitrela Diaconu, Dorina Amariucai-Mantu, Vasilichia Antoci, **Ionel MANGALAGIU**
Alexandru Ioan Cuza University of Iasi, Iasi, Romania
Azaheterocycles as Multitarget Ligands for Multifactorial Diseases

11^{00} – 11^{20}

KN.1. Ahcène BOUMENDJEL

Laboratory of Bioclinical Radiopharmaceuticals, Grenoble Alpes University, Grenoble, France

Antibody-Drug Conjugates Targeting Ferroptosis

Coffee Break & Networking 11^{20} – 11^{40}

Scientific Session 2

Aula Alexandru Ioan Cuza (Aula Magna),
111 Domnească Street, 11^{40} – 13^{10}

Session chairs:
Prof. PhD. Ahcène BOUMENDJEL, "Grenoble Alpes" University, Grenoble, France
Prof. PhD. Ionel MANGALAGIU, "Alexandru Ioan Cuza" University of Iasi, Romania

11^{40} – 12^{10}

PL.3. Sergiu COȘERI

"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania

Engineering Cellulose for a Sustainable Future: From Green Chemistry to Advanced Functional Materials

12^{10} – 12^{30}

KN.2. Ioan-Cezar MARCU

University of Bucharest, Faculty of Chemistry, Laboratory of Chemical Technology & Catalysis, 4-12, Blv. Regina Elisabeta 030018 Bucharest, Romania

Layered Double Hydroxide - Derived Mixed Oxides: Versatile Multi-functional Catalysts for Sustainable Processes

12^{30} – 12^{50}

KN.3. Andreea Irina COSUTCHI

''Petru Poni'' Institute of Macromolecular Chemistry, Grigore Ghica Voda Alley, no. 41A, 700487 Iasi, Romania

Addressing the Challenge of High Transparency and High Refractive Index of Polymer Materials: from Molecular Design to Application in Photonic Devices

12^{50} – 13^{10}

KN.4. Raluca-Ioana Stefan - van STADEN, Damaris - Cristina GHEORGHE, Andrada Ioana STEFAN, Catalina Cioates NEGUT, Ruxandra-Maria ILIE-MIHAI, Ramona GEORGESCU STATE

National Institute of Research for Electrochemistry and Condensed Matter, Bucharest-6
National University of Science and Technology Politehnica of Bucharest, Bucharest, Romania

New Trends in Sensors' Technology for Fast Assay of CVDs Biomarkers

Lunch Break, Exhibition & Networking

D Building, 111 Domnească Street, 13^{10} – 14^{00}

Group Photo, 13^{10}

111 Domnească Street, Science Campus, D Building

Poster Session A

PP.1.1. Sara EL MOUJAHED, Faouzi ERRACHIDI, Ana-Maria MOROSANU, Hicham ABOU OUALID, Sorin Marius AVRAMESCU, Mihaela DRAGOI CUDALBEANU, Fouad OUAZZANI CHAHDI, Youssef KANDRI RODI, Rodica Mihaela DINICA

Laboratory of Applied Organic Chemistry, Faculty of Sciences and Technologies, Sidi Mohamed Ben Abdellah University, Fez, Morocco
College of Chemical Sciences and Engineering (CCSE), Chemical and Biochemical Sciences (CBS), Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco

Bioinspired Collagen Films Reinforced with Waste-Derived Polyphenols for Sustainable Bioactive Packaging

PP.1.2. Ayoub EL MAHMOUDI, Rachida FEGROUCHE, Hamza TACHALLAIT, Khalid BOUGRIN, Rachid BENHIDA

College of Chemical Sciences and Engineering (CCSE), Chemical and Biochemical Sciences, Green Process Engineering, Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco
Equipe de Chimie des Plantes et de Synthèse Organique et Bioorganique, URAC23, Faculty of Science, Geophysics, Natural Patrimony and Green Chemistry (GEOPAC) Research Center, Mohammed V University in Rabat, Morocco

Ultrasound-Assisted Green Synthesis of Isoxazoline–Sulfonamides in Water and Their Larvicidal Activity against *Sphodroxia maroccana*

PP.1.3. Costel VÎNĂTORU, Bianca MUȘAT, Matilda POPESCU, Geanina NEGOȘANU, Camelia BRATU
Plant Genetic Resources Bank Buzau, Romania (BRGV Buzau), Buzau, Romania
Research on the origin and evolution of Buzău Onion landrace from Romania

PP.1.4. Camelia BRATU, Costel VÎNĂTORU, Bianca MUȘAT, Geanina NEGOȘANU, Matilda POPESCU
Plant Genetics Resources Bank Buzau, Buzau, Romania
Consolidation, evaluation, and conservation of the germplasm core collection of the *Capsicum* Genus - Hot Pepper

PP.1.5. Costel VÎNĂTORU, Bianca MUȘAT, Matilda POPESCU, Geanina NEGOȘANU, Camelia BRATU
Plant Genetic Resources Bank Buzau, Romania (BRGV Buzau), Buzau, Romania
Evaluation of genetic diversity of *Solanum lycopersicum* germplasm genebanked at BRGV Buzău, Romania

PP.1.6. Geanina NEGOȘANU, Costel VÎNĂTORU, Matilda POPESCU, Bianca MUȘAT, Camelia BRATU
Plant Genetic Resources Bank Buzău (BRGV Buzău), Buzau, Romania
Ex Situ Conservation at BRGV Buzău of a Local Genotype of *Iris graminea* Originating from Crâng Forest

PP.1.7. Ilie Cosmin DRĂGOI, Mihaela DRĂGOI CUDĂLBEANU, Simona MARCU SPINU, Irina TOMASU, Zina PARASCHIV, Daniela IONESCU, Alina ORTAN
Faculty of Land Reclamation and Environmental Engineering, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania
Temperature-optimized chicory extracts as polyphenol-rich antioxidant ingredients for functional foods and nutraceuticals

PP.1.8. Ramona DANAC, Roxana CIORTEANU, Ioana C. MARINAS, Catalina Ionica CIOBANU, Ionel I. MANGALAGIU
Faculty of Chemistry, Alexandru Ioan Cuza University of Iasi, Iasi, Romania
5- and 6-Azaindole-Derived Pyridinium Salts: Synthesis and Biological Activity

PP.1.9. Georgiana HORINCAR, Iuliana APRODU

Cross-Border Faculty, "Dunarea de Jos" University of Galati, Galati, Romania

Enhancing The Bioactivity and Phytochemical Profile of Beer Through Eggplant Peel Extract Incorporation

PP.1.10. Georgiana HORINCAR, Maricica STOICA, Gabriela BAHRIM

Cross-Border Faculty, "Dunarea de Jos" University of Galati, Galati, Romania

Biotransformation of Raw Milk Fat by *Yarrowia* Sp. For Antimicrobial Hydrolysates Production

PP.1.11. Georgiana HORINCAR, Mariana Carmelia BĂLĂNICĂ DRAGOMIR, Gabriela BAHRIM

Cross-Border Faculty, "Dunarea de Jos" University of Galati, Galati, Romania

Ultrasound-Assisted Extraction of Eggplant Peel Phytochemicals: Influence of Solvent on Antioxidant Activity

PP.1.12. Andra-Georgiana TRIFAN, Constantin APETREI

"Dunărea de Jos" University of Galați, Faculty of Science and Environment, Galați, Romania

Carbon-Based Electrochemical Sensor for the Sensitive Detection of Estradiol

PP.1.13. Andreea-Loredana COMĂNESCU, Constantin APETREI

"Dunărea de Jos" University of Galați, Faculty of Science and Environment, Galați, Romania

Electrochemical Detection of Dopamine Using Bismuth-Based Metal Oxide Modified Sensor

PP.1.14. Gabriela BILIUTA, Raluca Ioana BARON, Sergiu COSERI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Selective Oxidation of Polysaccharides Mediated by Nitroxyl Radicals: From Sustainable Functionalization to Advanced Applications

PP.1.15. Oana URSACHE, Gabriela BILIUTA

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Sustainable Alternatives in Coating Technology: Synthesis, Properties, and Benchmarking Against Conventional Systems

PP.1.16. Madalina Elena BISTRICEANU, Raluca Ioana BARON, Gabriela BILIUTA, Sergiu COSERI

"Petru Poni" Institute of Macromolecular Chemistry of the Romanian Academy, Iasi, Romania

Tunable Cellulose-Based Dual-Network Hydrogels through Reversible Crosslinking Interactions

PP.1.17. Andreea L. CHIBAC-SCUTARU, Raluca BARON, Gabriela BILIUTA, Violeta MELINTE, Madalina E. BISTRICEANU, Sergiu COSERI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Renewable Cellulose Nanofiber–Siloxane Aerogels as Lightweight and Floatable Platforms for Sustainable Water Treatment

PP.1.18. Leontina GRIGORE-GURGU, Marilena OPRIȘANU, Mihaela COTÂRLEȚ, Any-Cristina SERGENTU, Gabriela-Elena BAHRIM

Faculty of Food Science and Engineering, "Dunarea de Jos" University of Galati, Romania

Flow Cytometry Analysis of Heat-Treated Paraprobiotics Derived from *L. rhamnosus* MIUG BL 38

PP.1.19. Diana-Cătălina COMAN (STROIA), Geta CÂRÂC, Rodica-Mihaela DINICĂ, Bianca FURDUI

"Dunărea de Jos" University of Galati, Faculty of Science and Environment, Galati, Romania

Preliminary Research on Creating Artificial, Highly Protective Oxide Layers on Architectural Copper Roofs

PP.1.20. Ramona Marina GRIGORESCU, Lorena IANCU, Tanta-Verona IORDACHE, Anita-Laura CHIRIAC, Anamaria ZAHARIA

National Institute for Research & Development in Chemistry and Petrochemistry ICECHIM, Bucharest, Romania

New Hybrids based on Lignin Extracted from Lignocellulosic Waste

PP.1.21. Teodor SANDU, Elena Bianca STOICA, Sorin Viorel DOLANA, Anita Laura CHIRIAC, Anamaria ZAHARIA, Andrei SÂRBU, Ștefana Petruța LĂCUREANU, Andreea Gabriela OLARU, Tanța-Verona IORDACHE, Ramona Marina GRIGORESCU

National Institute for Research & Development in Chemistry and Petrochemistry ICECHIM, Bucharest, Romania

Three-component Hybrids with Zirconium Content and Water Decontamination Features

PP.1.22. Tanta-Verona IORDACHE, Adriana Nicoleta FRONE, Andreea Gabriela OLARU, Iulia Elena NEBLEA, Catalina Diana USURELU, Sorin Viorel DOLANA, Marinela Victoria IORDANESCU, Ștefana Petruța LĂCUREANU,Teodor SANDU, Ana-Lorena NEAGU

INCDCP-ICECHIM Bucharest, Bucharest, Romania

Biobased filters designed for water purification in Point-of-Use systems

PP.1.23. Anita-Laura CHIRIAC, Anamaria ZAHARIA, Marinela Victoria IORDANESCU, Elena-Bianca STOICA, Cristina LUNTRARU, Andrei SARBU, Mihaela NEAGU, Teodor SANDU, Ramona Marina GRIGORESCU, Ana-Mihaela GAVRILA, Tanta-Verona IORDACHE

INCDCP-ICECHIM, Bucharest, Romania

From Suspension Polymerization to Phase Inversion: Molecularly Imprinted Adsorbents for Catechin Tannin Separation

PP.1.24. Gabriela Liliana AILIESEI, Mihaela CRISTEA, Cătălin DUDUIANU, Alina NICOLESCU

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

NMR Profiling of Edible Oils at Different Magnetic Fields

PP.1.25. Cristina-Mihaela NICOLESCU, Marius BUMBAC, Germano CRAIA, Ștefan-Cosmin GHERGHINOIU, Costel BUMBAC, Lidia KIM, Bogdan-Cătălin SERBAN, Simona MIHAI

Valahia University of Târgoviște, Târgoviște, Dâmbovița, Romania

Comparative Effects of Three Mineral Fillers on the Properties of SIBS Elastomer Composites

PP.1.26. Mihaela CRISTEA, Gabriela Liliana AILIESEI, Cătălin DUDUIANU, Călin DELEANU, Alina NICOLESCU
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
The Synergy Between Matrix pH and Proton NMR Chemical Shifts

PP.1.27. Cătălin DUDUIANU, Mihaela CRISTEA, Liviu CRISTEA, Alina NICOLESCU
"Costin D. Nenitzescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
Tracking Ripening-Induced Variations in Metabolites Concentrations Through NMR Spectroscopy

PP.1.28. Petru EPURE, Liviu DOGARU, Mihai MITREA
EPI-SISTEM SRL, Sacele, Brasov, Romania
Functionalized Electrodes for Electrochemical Detection of Levothyroxine

PP.1.29. Ozgur CEYLAN, Alfred Ngenge TAMFU
Mugla Sitki Kocman University, Ula Ali Kocman Vocational School, Food Quality Control and Analysis Program, Ula/Mugla, Turkiye
Assessment of the Anti-Quorum Sensing Potential of Ethanol Extracts from Selected Plants

PP.1.30. Gabriela Liliana AILIESEI, Mihaela BALAN-PORCĂRAŞU, Ana Maria MACSIM, Alina NICOLESCU
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
Trade-Offs in Downscaling from 600 to 60 MHz for NMR Analysis of Biological Matrixes

PP.1.31. Mihaela DONI, Cristina FIRINCĂ, Lucian ZAMFIR, Cătălina GÎFU, Ana BUZATU, Alexandru GURBAN, Mariana CONSTANTIN, Iuliana RĂUT, Luiza-Andreea MÎRȚ, Alin VINTILĂ, Ana-Maria GURBAN
INCDCP—ICECHIM, Department of Biotechnology, Bucharest, Romania
Sustainable strategies for the biological remediation of complex contaminated environments

PP.1.32. Andreea L. CHIBAC-SCUTARU, Viorica PODASCA, Violeta MELINTE

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

From Doped ZnO Nanopowders to Binder-Free Cryoaerogels: A Sustainable Route toward Porous Functional Materials

PP.1.33. Mariana BUSILA, Cosmin ROMANITAN, Oana BRINCOVEANU, Vasilica TUCUREANUT, Alina-Mihaela CANTARAGIU CEOROMILA, Alina Viorica IANCU, Lucian BARBU-TUDORAN, Violeta DEDIU

"Dunarea de Jos" University of Galati, Faculty of Engineering, Galati, Romania

Noble-Metal Modified ZnO Nanostructures: From Structural Features to Antibacterial Activity

PP.1.34. Petru EPURE, Liviu DOGARU, Mihai MITREA

EPI-SISTEM SRL, Sacele, Brasov, Romania

Hand-held Electrochemical Potentiostat for Herbicide Detection

PP.1.35. Romana DRASOVEAN, Gabriel MURARIU

"Dunărea de Jos" University of Galati, Faculty of Science and Environment, Department of Chemistry, Physics, and Environment, Galati

Temporal Variations of Nitrogen Oxides and Tropospheric Ozone in Urban Air and Their Relationships with Meteorological Parameters

PP.1.36. Maria Daniela MIHAILA IONICA, Andreea Veronica BOTEZATU, Bianca FURDUI, Rodica Mihaela DINICA

"Dunărea de Jos" University of Galati, Faculty of Science and Environment, Department of Chemistry, Physics, and Environment, Galati

Influence of Plant Part and Extraction Solvent on the Phytochemical Composition and Biological Activities of *Iris Pseudacorus*

PP.1.37. Souleymane HAROUNA DIETE, Gouanin Larissa TOURE, N'Goran David Vincent KOUAKOU, Peter Waweru MWANGI, Frederick BUKACHI, Haoua Seini SABO, Andreea Veronica BOTEZATU, Maria Daniela IONICA MIHAILA, Anna BUSUIOC, Yaya SORO, Rodica Mihaela DINICA

Abdou Moumouni University (UAM), Niger

Effect of Sun-drying and traditional cooking methods on Bioactive content of leaves of *Corchorus olitorius* var. *olitorius* from central Côte d'Ivoire

PP.1.38. Victor Moussango DAVY, Marie Ampères Boat BEDINE, Moïse A Ayong NTAH, Tanner WORTHAM, Sameza Modeste LAMBERT, Rodica Mihaela DINICA

University Institute of Technology, University of Douala, Cameroon, Cameroon

Boosting *Thymus vulgaris* Essential Oil Efficacy via Nanoemulsion: A Potent Biocontrol Solution against Tomato Late Blight (*Phytophthora infestans*)

PP.1.39. Maria MEDRIHAN, Bogdan-Constantin CONDURACHE, Maria IGNAT, Valeria HARABAGIU

"Petru Poni" Institute of Macromolecular Chemistry, Iasi

Evaluation of Microwave-Assisted vs. Thermal Synthesis of a Urea Derived Ligand for the Efficient Removal of Pollutants from Wastewater

Scientific Session 3

Session 3 A, Oral Presentations, $14^{00} – 15^{00}$

D Building, 1st Floor, D011 room, 111 Domnească Street

Session chair:

Assoc. Prof. PhD. Vasile-Robert GRĂDINARU, "Alexandru Ioan Cuza" University of Iasi, RO

PhD. Clara Pérez GONZÁLEZ, University of Valladolid, ES

$14^{00} – 14^{10}$

OP.1. Adriana ISPAS, René BÖTTCHER, Andreas BUND

Technische Universitaet Ilmenau, FG Chemie, Weimarer Straße 25, Ilmenau, Germany

Aluminum and Aluminum Alloys Electrodeposited in Ionic Liquids for Corrosion Protection

14^{10} – 14^{20}

OP.2. Thorsten HÜFFER, Valerie WILKEIT, Sophie SCHUMACHER, Thilo HOFMANN

Department of Environmental Geosciences, University of Vienna, Austria

Tire-Associated Chemicals in an Urban River System: Spatial Patterns, Input Pathways and Phase Distribution

14^{20} – 14^{30}

OP.3. Andra-Cristina ENACHE, Ionela GRECU, Bogdan-George RUSU, Bogdan CONDURACHE, Petrisor SAMOILA, Corneliu COJOCARU

"Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania

Magnetic Chitosan-Based Composite Beads: Structure, Functional Properties and Adsorption Potential

14^{30} – 14^{40}

OP.4. Cristina BOSTACĂ, Larisa-Maria PETRILA, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania

Arthrospira Platensis Mediated Synthesis of Copper-Based Hybrid Materials and Their Photocatalytic Activity in Indigo Carmine Degradation

14^{40} – 14^{50}

OP.5. Sehrish BILAL, Mihaela BADEA, Amtul Jamil SAMI, Akhtar HAYAT, Muhammad FAYYAZ- UR-REHMAN

Research and Development Institute of Transilvania University of Brasov, Romania
Faculty of Medicine, Transilvania University of Brasov, Brașov, Romania

N-Doped carbon DOTS/BSA nanocomposite - based biosensor for electrochemical monitoring of pesticide-induced neurotoxicity in pollinators

14^{50} – 15^{00}

OP.6. Claudiu Pascal

LABORATORIUM SRL, Bucharest, ROMANIA

Improving Recovery and Reproducibility with Inert LC Column Hardware

Session 3 B, Oral Presentations, $14^{00} – 15^{00}$

D Building, 1st Floor, D012 room, 111 Domnească Street

Session chair:
Prof. PhD. Simona OANCEA, "Lucian Blaga" University of Sibiu, RO
Prof. PhD. Ramona DĂNAC, "Alexandru Ioan Cuza" University of Iași, RO

$14^{00} – 14^{10}$

OP.7. Sara El MOUJAHED, Fouad Ouazzani CHAHDI, Youssef Kandri RODI, Faouzi ERRACHIDI, Hicham Abou OUALID, Andreea-Veronica BOTEZATU-DEDIU, Mihaela DRAGOI CUDALBEANU, Anna CAZANEVSCAIA BUSUIOC, Rodica Mihaela DINICA

Faculty of Sciences and Technologies, Sidi Mohamed Ben Abdellah University, Morocco
College of Chemical Sciences and Engineering (CCSE), Benguerir, Morocco

Towards Sustainable Tanning: An Integrated Approach to Collagen Extraction and Stabilization

$14^{10} – 14^{20}$

OP.8. Anca Daniela RAICIU

Faculty of Pharmacy,Titu Maiorescu University, Bucharest, ROMANIA
Hofigal Export-Import S.A., Bucharest, ROMANIA
Planta Romanica Association, Bucharest,ROMANIA

Bioactive compounds from medicinal plants: advances in evidence-based phytotherapy

$14^{20} – 14^{30}$

OP.9. Dana PERNIU, Camelia DRAGHICI

Transilvania University of Brasov, Romania

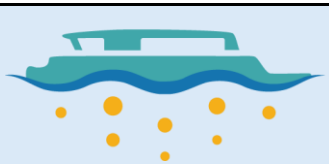
Environmental Ethics - Pillar in Chemistry Education for Sustainable Development

$14^{30} – 14^{40}$

OP.10. Lăcrămioara RUSU, Elena-Mirela SUCEVEANU, Narcis-Teodor NIȚĂ

Faculty of Engineering, "Vasile Alecsandri" University of Bacau, Bacău, Romania

From Wood Waste to Advanced Biocomposites for Sustainable Water Treatment: Equilibrium Insights into Malachite Green Biosorption using a Novel Lignocellulosic Biocomposite



sundanse

Sustainable Sediment solutions for the Danube - Black Sea system

WORKSHOP 1 ON REXDAN RESEARCH VESSEL,

Special session

Workshop (15^{30}–17^{30})

***Supported by*: Innovative Sediment Management Framework for a Sustainable Danube–Black Sea System – SUNDANSE, Contract No. 101156533**

SEDIMENT MONITORING IN PRACTICE: CHALLENGES AND PERSPECTIVES

Prof. PhD. Eng. Puiu-Lucian GEORGESCU, *"Dunărea de Jos" University of Galați, RO*

Expert exchange, round table discussion, and stakeholder consultation on sediment monitoring and management.

Conference Festive Dinner

(*for participants with tickets only*), 20^{00} – 24^{00}

Panoramic Hall – 9th Floor, Mercure Galați Centrum

Scientific Program, Friday, 09 October

08^{00} - 15^{00}
Registration of the participants

Scientific Session 4

Aula Alexandru Ioan Cuza (Aula Magna), Science Campus, 111 Domnească Street, 09^{00} – 11^{10}

Session chairs:
Prof. PhD. Andreas BUND, Technische Universität Ilmenau, Ilmenau, Germany
Assoc. Prof. PhD. Alin DÎRȚU, "Alexandru Ioan Cuza" University of Iasi, RO

09^{00} - 09^{40}
PL.4. Giancarlo CRAVOTTO
Department of Drug Science and Technology, University of Turin, Italy
INNOVATION IN GREEN EXTRACTION AND PROCESSING

09^{40} - 10^{10}
PL.5. Marcela MIHAI
Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania
Polymer-Based Innovative Materials for Environmental Applications

10^{10} – 10^{40}
PL.6. Narcis AVARVARI
Univ. Angers, CNRS, MOLTECH-Anjou Laboratory, Angers, France
Chirality Related Properties in Molecular Materials

10^{40} – 11^{10}
PL.7. Csaba PAIZS, Laura Edit BARABÁS, Monica Ioana TOȘA
Enzymology and Applied Biocatalysis Research Center, Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University of Cluj-Napoca, Cluj-Napoca, Romania
Human Carbonic Anhydrase II as an Artificial Reductase in a Transaminase-Coupled Multienzymatic Cascade for Sustainable Organic Process Development: Concurrent Synthesis of Enantiopure Building Blocks and Furanic Monomers

Coffee Break & Networking, 11^{10} – 11^{30}

D Building, 1st Floor

Scientific Session 5

Session 5A, D Building, room D011, 11^{30} – 13^{10}

Session chairs:
Prof. PhD. Narcis AVARVARI, Univ. Angers, CNRS, MOLTECH-Anjou Laboratory, 49000 Angers, France
CSI PhD. habil. Sergiu COȘERI, "Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania

11^{30} – 11^{50}

KN.5. Mariana JIAN, Angela SPOIALA, Ludmila MOTELICA, Denisa FICAI, Ovidiu OPREA, Viorel NACU, Anton FICAI
National University of Science and Technology POLITEHNICA of Bucharest, RO
Recent Advances in Bone Grafting

11^{50} – 12^{10}

KN.6. Clara Pérez GONZÁLEZ, Coral Salvo COMINO, Cristina García CABEZÓN, Maria Luz Rodríguez MÉNDEZ2
Escuela de Ingenierías Industriales, University of Valladolid, ES
Engineering Nanostructured Interfaces for Electrochemical Sensing and Sensor Arrays

12^{10} – 12^{30}

KN.7. Mihaela BADEA, Luca VISCONTI, Maria Grazia PIANCINO, Gabriela VLASE, David PACHEU-GRAU, Sónia Alexandra PEREIRA MIGUEL, Corrado PAGANELLI
Transilvania University of Brasov, Romania
Educating for a Sustainable Future: The INNOEdu-LS Model for Inclusive, Flexible, and Internationalised Life Sciences Education

12^{30} – 12^{50}

KN.8. Michaela Dina STANESCU

Department of Technical and Natural Sciences, Faculty of Food Engineering, Tourism and Environmental Protection, University AUREL VLAICU of Arad, Arad, Romania

Wool an Old Natural Fiber with New Valorizations

Session 5B, D Building, room D012, 11^{30} – 13^{10}

Session chairs:
Prof. PhD. Giancarlo CRAVOTTO, Department of Drug Science and Technology, University of Turin, Italy
Prof. PhD. Ioan-Cezar MARCU, University of Bucharest, RO

11^{30} – 11^{50}

KN.9. Mustafa Kemal GÜMÜŞ, Mustafa Umut KONANÇ

Science-Technology Research and Application Center, Artvin Çoruh University, Artvin, Türkiye

Analytical and Biochemical Investigation of *Hypericum androsaemum* L. and *Hypericum xylosteifolium* (Spach) Robson Plants from Artvin Region, Türkiye

11^{50} – 12^{10}

KN.10. Vasile Robert GRADINARU, Luiza Mădălina GRADINARU, Andra-Diana GOCIU

Department of Chemistry, "Al.I. Cuza" University Iasi, Iasi, Romania

Dual Delivery of Diclofenac and Papain from Hydrogel-Based Systems

12^{10} – 12^{30}

KN.11. Simona OANCEA

Department of Agricultural Sciences and Food Engineering, Lucian Blaga University of Sibiu, Sibiu, Romania

Exploring invasive plants as underused chemical resources for the recovery of pharmacologically active compounds

12^{30} – 12^{50}

KN.12. Alin C. DIRTU, Silviu FILIPIUC, Daniela DIRTU, Mirela STĂRUIALĂ, Cristina Mariana URITU, Bogdan-Ionel TAMBA

Faculty of Chemistry, "Alexandru Ioan Cuza University" of Iași, Iași, Romania

Determination of Endocrine-Disrupting Chemicals in Food and Biological Samples. Challenges Towards Development and Implementation of Analytical Protocols and New Approach for Human Exposure Assessment

Lunch Break, Exhibition & Networking

D Building, Science Campus, 13^{10} – 14^{00}

Poster Session B

PP.2.1. Diana HANGANU, Paula Alexandra FRĂȚILĂ-CIUBOTARU, Diana HARJA, Alexandru-Teodor BALAN, Ramona-Elena TATARU-FĂRMUȘ, Nicolae APOSTELESCU

"Gheorghe Asachi" Technical University of Iași, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iași, Romania

From Controlled $Cu(OH)_2$ Surface Deposition to Low-Dose Photocatalytic Performance: CuO/ZnO Heterojunctions for Pharmaceutical Contaminant Degradation

PP.2.2. Diana HANGANU, Călin George PRAVĂȚ, Ioana Teodora BUTNARU, Maria HARJA, Gabriela Antoaneta APOSTOLESCU

"Gheorghe Asachi" Technical University of Iași, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania

Comparative Synthesis of $CuWO_4$ Photocatalysts by Co-precipitation and Sol–gel Routes for the Degradation of Pharmaceutical Contaminants

PP.2.3. Mariana VOICESCU, Daniela C. CULITA, Mihai ANASTASESCU, Ana-Maria SECIU-GRAMA, Florentina GATEA, Oana CRACIUNESCU

Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania

Proflavin – DNA interaction in Dextran 70: Fluorescence Emission, Structural Changes and Antioxidant Activity

PP.2.4. Melinda DAVID, Monica FLORESCU, Camelia BALA
Laboratory for Quality Control and Process Monitoring, University of Bucharest, Bucharest, Romania
The Versatility of Biologically Synthesized Gold Nanoparticles

PP.2.5. Stefania-Adelina MILEA, Andreea-Miruna CODREANU, Andreea DOROFTE, Daniel Eduard CONSTANTIN, Catalina ITICESCU
"Dunarea de Jos" University of Galati, REXDAN Research Infrastructure, Galati, Romania
Pollution Assessment in the Siretul Mijlociu Protected Area: A Multi-Compartment Approach Based on Water, Sediment, and Plant Matrices

PP.2.6. Raluca Ioana BARON, Gabriela BILIUTA, Sergiu COSERI
"Petru Poni" Institute of Macromolecular Chemistry,Iasi, Romania
Oxidized Pullulan-Based Functional Materials for Sustainable Biomedical Applications

PP.2.7. Ioana A. DUCEAC, Raluca-Ioana BARON, Sergiu COSERI
"Petru Poni" Institute of Macromolecular Chemistry,Iasi, Romania
Dynamic Hydrogels Based on Oxidized Polysaccharides for Biomedical Applications

PP.2.8. Narcis-Teodor NIȚĂ, Daniela ȘUTEU, Elena-Mirela SUCEVEANU, Alexandru CHEREGI, Lăcrămioara RUSU
Vasile Alecsandri" University of Bacau, Doctoral Studies School, Bacău, Romania
Microbial versus Lignocellulosic Biomass: Comparative Evaluation of Alginate-Based Biocomposites for Ethacridine Lactate Biosorption

PP.2.9. Cristina BOSTACĂ, Larisa-Maria PETRILA, Marcela MIHAI
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
Optimization of Cell Disruption and Biomass Solubilization of *Arthrospira Platensis*

PP.2.10. Larisa-Maria PETRILA, Cristina BOSTACĂ, Marius-Mihai ZAHARIA, Florin BUCĂTARIU, Marcela MIHAI
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
Polyethyleneimine-functionalized Magnetic Nanoparticles as Efficient Sorbents for Congo Red Removal

PP.2.11. Timeea-Anastasia CIOBANU, Florin BUCATARIU, Larisa-Maria PETRILA, Marius-Mihai ZAHARIA, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Sand/Polyelectrolyte Multilayers with Immobilized Catalase for Pollutant Removal

PP.2.12. Alina-Petronela MORARU, Marius-Mihai ZAHARIA, Florin BUCATARIU, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Heavy Metals Ions Removal from Synthetic and Natural Waters Using Zwitterionic Acrylic Ion Exchangers

PP.2.13. Andreea DANILA, Roxana CIORTEANU, Ionel I. MANGALAGIU, Ramona DANAC

Faculty of Chemistry, Alexandru Ioan Cuza University of Iasi, Iasi, Romania

New Fused Imidazopyridine Derivatives: Synthesis and Biological Evaluation

PP.2.14. Marius BUMBAC, Cristina-Mihaela NICOLESCU, Germano CRAIA, Ștefan-Cosmin GHERGHINOIU, Costel BUMBAC, Lidia KIM, Bogdan-Cătălin SERBAN, Simona MIHAI

Valahia University of Târgoviște, Târgoviște, Dâmbovița, Romania

Thermoplastic Polyurethane Composites with Barium Sulfate for Potential Flexible Radiation Shielding

PP.2.15. Cristina-Mihaela NICOLESCU, Marius BUMBAC, Germano CRAIA, Ștefan-Cosmin GHERGHINOIU, Costel BUMBAC, Lidia KIM, Bogdan-Cătălin SERBAN, Simona MIHAI

Valahia University of Târgoviște, Târgoviște, Dâmbovița, Romania

Comparative Effects of Three Mineral Fillers on the Properties of SIBS Elastomer Composites

PP.2.16. Marija KUČ, Tajana SIMETIĆ, Tijana MARJANOVIĆ SREBRO, Jasmina AGBABA, Aleksandra TUBIĆ, Jelena MOLNAR JAZIĆ

University of Novi Sad, Faculty of Science, Department of Chemistry, Biochemistry and Environmental Protection, Novi Sad, Serbia

Bisphenol A degradation by UV/PMS in surface water: The role of PMS Concentration and UV Fluence

PP.2.17. Marko SŎLIĆ, Tamara APOSTOLOVIĆ, Tijana MARJANOVIĆ SREBRO, Tajana SIMETIĆ, Nina DUKANOVIĆ, Dejan KRČMAR, Aleksandra TUBIĆ

University of Novi Sad, Faculty of Science, Department of Chemistry, Biochemistry and Environmental Protection, Novi Sad, Serbia

Comparative Assessment of Danube River Sediment Characteristics at Selected Locations in Serbia

PP.2.18. Madalina CALMUC, Valentina–Andreea CALMUC, Maria Daniela MIHAILA, Nina– Nicoleta LAZĂR, Maxim ARSENI, Puiu–Lucian GEORGESCU, Catalina ITICESCU

"Dunarea de Jos" University of Galati, REXDAN Research Infrastructure, Galati, Romania

Investigation of microplastics in the Lower Danube water over a 430 km stretch

PP.2.19. Valentina–Andreea CALMUC, Madalina CALMUC, Maria Daniela MIHAILA, Maxim ARSENI, Catalina ITICESCU, Puiu – Lucian GEORGESCU

"Dunarea de Jos" University of Galati, REXDAN Research Infrastructure, Galati, Romania

Screening for the presence of pharmaceutical residues in the Danube River along the Romania - Austria sector

PP.2.20. Andreea-Miruna CODREANU, Ștefania Adelina MILEA, Andreea DOROFTE, Daniel Eduard CONSTANTIN, Cătălina ITICESCU

"Dunarea de Jos" University of Galati, REXDAN Research Infrastructure, Galati, Romania

Assessment of Aquatic Ecosystem Pollution in Colinele Elanului, Vaslui, Romania: Mercury and Nutrient Levels within a Natura 2000 site

PP.2.21. Melinda-Maria BAZARGHIDEANU, Ana-Lavinia VASILIU, Florin BUCATARIU, Marius-Mihai ZAHARIA, Stergios PISPAS, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Electrosynthesis of AMP-*g*-PNIPAM/ Fe_3O_4 Hybrid Composite and Its Application in Dye Removal

PP.2.22. Ana-Lavinia VASILIU, Melinda-Maria BAZARGHIDEANU, Marius-Mihai ZAHARIA, Stergios PISPAS, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Green Formation of AuNPs in the Presence of pH-Responsive Copolymer Based on Amylopectin and Poly(acrylic acid)

PP.2.23. Luiza Madalina GRADINARU, Maria BERCEA, Vasile Robert GRADINARU

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Thermally Triggered Polyurethane Hydrogels as Versatile Platforms for Hydrophobic Drug Delivery

PP.2.24. Robert I. BOTEA, Augustin MĂDĂLAN

University of Bucharest, Faculty of Chemistry, Bucharest, Romania

Synthesis and Structural Characterization of 3d, 4d, and 4f Metal Complexes Incorporating Extended π-Conjugated Schiff Bases

PP.2.25. Ionela GRECU, Corneliu COJOCARU, Petrișor SAMOILĂ, Bogdan-Constantin CONDURACHE, Bogdan-George RUSU, Andra-Cristina ENACHE

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Tailoring Spinel Ferrites as Sustainable Materials for Wastewater Remediation

PP.2.26. Bogdan-Constantin CONDURACHE, Corneliu COJOCARU, Maria IGNAT

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Efficient Adsorptive Removal of Alizarin Yellow R from Aqueous Solutions Using an Organoclay-Based Adsorbent

PP.2.27. Andreea DOROFTE, Andreea Miruna CODREANU, Adelina Ștefania MILEA, Eduard Daniel CONSTANTIN, Cătălina ITICESCU
"Dunarea de Jos" University of Galati, REXDAN Research Infrastructure, Galati, Romania
Integrated Assessment of Contamination in Aquatic Ecosystems of the Dobrina–Huși Forest Protected Natural Area, Romania (Natura 2000 Site)

PP.2.28. Gheorghe DUCA, Lidia ROMANCIUC, Olga COVALIOVA
Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova
Catalytic Free-Radical Processes *in vivo* with the Involvement of Oxygen Reduction Products

PP.2.29. Nicoleta CIOBOTARU, Petronela NECHITA, Anca ȘERBAN
Dunărea de Jos University of Galați, Galati, Romania,
Seasonal Variability of Sediment Physicochemical Properties in Balta Albă Saline Lake under Climate-Related Changes

PP.2.30. Petronela NECHITA, Mirela IANA-ROMAN, Andreea Veronica BOTEZATU, Nicoleta CIOBOTARU
Dunărea de Jos University of Galați, Galati, Romania,
Chemical Modification of Xylan Hemicelluloses to Improve their Performance in Sustainable Food Packaging

PP.2.31. Petru EPURE, Ana-Maria GURBAN, Lucian-Gabriel ZAMFIR
EPI-SISTEM SRL, Sacele, Brasov, Romania
Detection of Ractopamine and Ciprofloxacin Residues in Food Chain

PP.2.32. Petru EPURE, Mihai-Robert ZAMFIR, Nicu-Doinel SCARISOREANU, Liviu DOGARU
EPI-SISTEM SRL, Sacele, Brasov, Romania
Gas Measuring Devices Based on Chemoresistor Sensors

PP.2.33. Nicoleta PLATON, Vasilica Alisa ARUS, Oana Cristina PÂRVULESCU
Department of Chemical and Food Engineering, "Vasile Alecsandri" University of Bacau, Bacau, Romania
Physicochemical characterization of hydrolyzed collagen and konjac glucomannan additives

PP.2.34. Alexandra Mariana IONESCU, Rodica Mihaela DINICA, Andreea-Veronica BOTEZATU, Corina NEAGU, Lucia PÎRVU, Sorin STOIA

"Dunarea de Jos" University of Galati, Department of Chemistry, Physics and Environment, Domneasca Street 47, 800008, Galati, Romania

Phytochemical Identification and Quantitative Profiling of Therapeutically Relevant Polyphenols and Flavonoids from *Vitis vinifera* grapevine canes: A Comparative Analysis

PP.2.35. Anna BUSUIOC, Andreea-Veronica BOTEZATU, Fănică BĂLĂNESCU, Bianca FURDUI, Rodica Mihaela DINICĂ

"Dunarea de Jos" University of Galati, Department of Chemistry, Physics and Environment, Domneasca Street 47, 800008, Galati, Romania

Phytochemical Profiling of Selected Cucurbitaceae Species Adapted and Cultivated in Romania

PP.2.36. Irina-Claudia ALEXA, Luminița GROSU, Daniela NICUȚĂ, Oana-Irina PATRICIU, Adriana-Luminița FÎNARU

Department of Chemical and Food Engineering, Faculty of Engineering, "Vasile Alecsandri" University of Bacău, 157, Calea Mărăşeşti, 600115 Bacău, Romania

Applying Green Chemistry Principles to Mitigate Synthetic Inputs: Micropropagation, Natural Food Enrichment, and Biofertilization

PP.2.37. Ana-Mari GEORGESCU, Vasilica-Alisa ARUS, Constantin APETREI, Claudia UNGUREANU, Dumitra RADUCANU

Department of Food and Chemical Engineering, Faculty of Engineering, "Vasile Alecsandri" University of Bacau, 157 Calea Marasesti Street, 600115 Bacau, Romania

Sea Buckthorn (*Hippophae rhamnoides* L.) as an Innovative Functional Ingredient in Bakery Product Development

PP.2.38. Alexandra Virginia BOUNEGRU, Iulian BOUNEGRU, Simona BUTAN

Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunărea de Jos" University, Galati, Romania

Chitosan–Methylcellulose Oil-in-Water Emulgel for Topical Delivery of Neomycin Sulfate: Physicochemical Characterization and In Vitro Release

PP.2.39. Aurel TĂBĂCARU

Faculty of Sciences and Environment, "Dunărea de Jos" University of Galați, Galati, Romania

When Structure Is Not Enough: Environment-Driven Chemical Evolution in Bioactive Metal Systems

PP.2.40. Marius Vasile BÂRDAN, Anna BUSUIOC, Alexandra-Mariana IONESCU, Raluca RĂILEANU, Andreea Veronica BOTEZATU, Bianca FURDUI, Costel VÎNĂTORU, Rodica Mihaela DINICA

"Dunarea de Jos" University, Faculty of Sciences and Environment, Galati, Romania

Artemisia Genus: A Natural Source of Artemisinin and Other Bioactive Compounds

PP.2.41. Fatih ÇETINKAYA, Mehmet Hanifi KEBIROĞLU, Mustafa Kemal GÜMÜŞ

Artvin Coruh University, Artvin, Türkiye

Synthesis, Spectroscopic Characterization and DFT Investigation of a Novel Sulfanilamide-Based Bis-Triazene-1,2,4-Triazole Derivative

Scientific Session 6

Session 6A, D Building, room D011, 14^{00} – 15^{00}

Session chairs:
Prof. PhD. Mihaela BADEA, ***Transilvania University of Brasov, Romania***
Prof. PhD. Anton FICAI, ***National University of Science and Technology, POLITEHNICA of Bucharest, Romania***

14^{00} – 14^{10}

OP.11. Vasile-Bogdan MARDARI, Iuliana STOICA, Ana CAZACU, Victor COJOCARU, Raluca Marinica ALBU, Andreea Irina COSUTCHI

''Petru Poni'' Institute of Macromolecular Chemistry, Iasi, Romania

Role of Triarylmethane-based Dye on Adapting the Properties of a Transparent Polymer Blend for Wavelength Selective Filter Uses

14^{10} – 14^{20}

OP.12. Alina-Petronela MORARU, Marius-Mihai ZAHARIA, Melinda-Maria BAZARGHIDEANU, Ana-Lavinia VASILIU, Florin BUCATARIU, Marcela MIHAI

''Petru Poni'' Institute of Macromolecular Chemistry, Iasi, Romania

Synthesis of Sodium Alginate-Copper Complex by Ion Exchange Column Method

14^{20} – 14^{30}

OP.13. Andrei-Daniel GEMAN, Constantin APETREI

"Dunarea de Jos" University of Galati, Galați, Romania

Electrochemical screen-printed carbon biosensors based on nanomaterials and laccase

14^{30} – 14^{40}

OP.14. Ioana-Sabina TRIFAN, Raluca Ioana BARON, Gabriela BILIUTA, Mioara MURARIU, Sergiu COSERI

"Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania

Fluorescent Moieties Grafted-Pullulan as a Sustainable Chemosensing Platform for Fe^{3+} Detection

14^{40} – 14^{50}

OP.15. Andrei IVANOV, Viorica GHISMAN, Nicoleta BOGATU, Daniela-Laura BURUIANA, Iulian-Vasile ANTONIAC

Faculty of Engineering, "Dunărea de Jos" University of Galați, Galați, Romania

Nanostructured Sensing Interfaces for Sustainable Food Quality Assessment in the Cold Chain

Session 6B, D Building, room D012, $14^{00} – 15^{00}$

Session chairs:

Prof. PhD. Mustafa Kemal GÜMÜŞ, Artvin Çoruh University, TR

CS II PhD. Andreea Irina COSUTCHI, "Petru Poni" Institute of Macromolecular Chemistry

$14^{00} – 14^{10}$

OP.16. Ramona DANAC, Roxana CIORTEANU, Ioana C. MARINAS, Ionel I. MANGALAGIU

''Petru Poni'' Institute of Macromolecular Chemistry, Iasi, Romania

From Azaindole to Novel Pyrroloindolizines: Synthesis and Biological Evaluation

$14^{10} – 14^{20}$

OP.17. Rareș-Georgian MOCANU, Mariana PINTEALĂ, Sergiu SHOVA, Irina ROȘCA, Dana BEJAN

''Petru Poni'' Institute of Macromolecular Chemistry, Iasi, Romania

Synthesis, Characterization, and Properties of Selected Imidazolium and Benzimidazolium Salts

$14^{20} – 14^{30}$

OP.18. Nesimi ULUDAĞ, Mustafa Kemal GÜMÜŞ

Tekirdağ Namık Kemal University, Faculty of Science and Arts, Departmen of Chemistry, Tekirdag-Türkiye

Artvin Coruh University, Chemical Processing Technologies Department, Artvin, Türkiye

Aqueous *Quillaja* Saponin Extract as a Bio-Based Catalyst for Converting Oximes to Carbonyl Compounds

$14^{30} – 14^{40}$

OP.19 Alexandra-Mariana IONESCU, Ana-Maria MOCANU, Andreea Veronica BOTEZATU, Bianca FURDUI, Alina Viorica IANCU, Luminita MARIN, Mihaela SILION, Maria Paula Cabral CAMPELLO, Fernanda Marujo MARQUES, Sabine CHIERICI, Costel VINATORU, Rodica Mihaela DINICA

"Dunarea de Jos" University, Galati, Romania

Research on plant-derived bioactive compounds with anti-inflammatory, antitumor, antimicrobial, and neuroprotective potential

14^{40} – 14^{50}

OP.20. Larisa-Maria PETRILA, Cristina BOSTACĂ, Marius-Mihai ZAHARIA, Ana-Lavinia VASILIU, Marcela MIHAI

"Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania

Eco-Friendly Enzyme-based Biocatalysts for Water Cleaning Applications

14^{50} – 15^{00}

OP.21. Vasi Stere

SC NITECH SRL, Bd. Bucurestii Noi nr. 212A, Sector 1 Bucuresti, cod 012369, Romania

Laboratory equipment – Nitech

Session 6C, D Building, room D013, 14^{00} – 16^{30}

Session chairs:
Asoc. Prof. PhD. Alfred Ngenge TAMFU, University of Ngaoundéré, Cameroon
PhD. Sara El MOUJAHED, Sidi Mohamed Ben Abdellah University, Morocco

14^{00} – 14^{10}

ON.1. Simona-Luminita NICA, Mirela-Fernanda ZALTARIOV, Ana CASIAN, Igor CASIAN, Mihaela BALAN-PORCARASU, Andrei CHIABURU, Ianos CORETCHI

Petru Poni Institute of Macromolecular Chemistry Iasi, Romania

New kaempferol-based deep eutectic solvents: structural characterization and rheological properties

14^{10} – 14^{20}

ON.2. Lucia PINTILIE, Mihaela DEACONU, Maria MAGANU, Miron Teodor CAPROIU, Mădălina-Diana GABOREANU, Ioana-Cristina MARINAS

National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, Romania

Biologically Active Cu(II) Complexes of Some Fluoroquinolone Derivatives: Drug Design, Molecular Docking, Synthesis, Characterization and Antifungal Activity

14^{20} – 14^{30}

ON.3. Mioara Murariu

Petru Poni Institute of Macromolecular Chemistry Iasi, Romania

Dual Fluorescence Response and Photophysical Properties of a Cyclodextrin-Threaded Conjugated Polymer toward Metal Ions

14^{30} – 14^{40}

ON.4. Elva NGOLO, Béril Fabrice MAVOUBA, Blondy MBOUNGOU-BOUESSE, Andreea Veronica BOTEZATU, Bianca FURDUI, Arnaud Wilfrid ETOU OSSIBI, Rodica Mihaela DINICA

National Institute for Health Sciences Research (IRSSA), Brazzaville, Congo
Marien Ngouabi University, Brazzaville, Congo

Study of the aphrodisiac effect, antioxidant activity and polyphenol content of extracts from *Gongronema vines latifolium* Benth. (*Apocynaceae*)

14^{40} – 14^{50}

ON.5. Mihaela OLARU, Andrei-Victor OANCEA, Doriana AGOP-FORNA

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Tuning Hierarchical Organization and Biomineralization in POSS-Based Hybrid Nanocomposites through Mineral Precursor Crystallinity

14^{50} – 15^{00}

ON.6. Elena-Diana ROTARU, Mirela-Fernanda ZALTARIOV, Radu-Ionuț TIGOIANU, Maria CAZACU

Petru Poni Institute of Macromolecular Chemistry Iasi, Romania

New fluorescent sensors based on imidazole-containing siloxane Schiff bases for glucose / insulin detection

15^{00} – 15^{10}

ON.7. Fatima Zahra SADIKI, Geta CARAC, Andreea Veronica BOTEZATU, Mohamed CHABBI, Mostafa El IDRISSI, Ali AMECHROUQ, Rodica Mihaela DINICA

Moulay Ismail University, Meknes, Morocco

Cyclic Voltammetry and Spectrophotometric Assessment of the Antioxidant Potential of Ultrasound-Assisted Fractionated *Tetraclinis articulata* Leaf Extracts

15^{10} – 15^{20}

ON.8. Amalia STEFANIU, Misu MOSCOVICI, Maria PETRESCU, Roxana STOICA, Gabriela SĂVOIU, Andrei-Alexandru MUNTEAN, Simin Aysel FLORESCU, Maria NICA, Costin-Ioan POPESCU, Andra-Elena COSOREANU, Nicoleta RUSU

National Institute for Chemical Pharmaceutical Research and Development, Bucharest, Romania

Microbial Resource Research Infrastructure — European Research Infrastructure Consortium, MIRRI-ERIC-Romania

Studies on Apo-Cysteine Desulfurase of a *Stapylococcus aureus* MRSA Multi-Resistant Strain, Aiming to Design Potential Ligands

15^{20} – 15^{30}

ON.9. Hanane OUBLID, Mohamed Ait HAMZA, Fouad ACHEMCHEM, Abdelkhaleq ELMOSLIH, Imad ACHLAIH, Abdellah El HAMDAOUI, Mohamed El YAAGOUBI, Hassan BOUBAKER, Fatima Zohera AOUTIL, Fouad MSANDA

Ibnou Zohr University, Agadir, Morocco

Phytochemical Screening and Antibacterial Activity of Three Moroccan *Lavandula* Species: Individual and Combined Effects against Foodborne Pathogens

15^{30} – 15^{40}

ON.Poster.10. Roxana Mădălina STOICA

National Institute for Chemical-Pharmaceutical Research and Development-ICCF, Bucharest, Romania

Valorization of Grape Pomace as a Sustainable Source of Anthocyanins: Extraction Technologies, Bioactive Properties and Applications

15^{40} – 15^{50}

ON.11. Eliasse ZONGO, Benjamin Kouliga KOAMA, Andreea Veronica BOTEZATU, Franck Le Sage SOMDA, Anna BUSUIOC, Clarisse OUEDRAOGO, Hermane Yempabou OUOBA, Maria Daniela MIHAILA, Roland Nâg-Tiero MEDA, Rodica Mihaela DINICA

Université Nazi BONI, Bobo Dioulasso, Burkina Faso Anti-inflammatory and antioxidant capacity of aqueous extracts of *Piliostigma reticulatum* used in the traditional management of inflammatory diseases in the Guiriko region, Burkina Faso

15^{50} – 16^{00}

ON.Poster.12. Roxana Mădălina STOICA

National Institute for Chemical-Pharmaceutical Research and Development-ICCF, Bucharest, Romania

Valorization of Tomato Peel Waste as a Sustainable Source of Lycopene: Extraction Technologies, Bioactive Properties and Applications

16^{00} – 16^{10}

ON.13. Liana-Simona SBIRNA, Clementina Sabina MOLDOVAN, Marian CIUPERCEANU

University of Craiova, Faculty of Sciences, Craiova, Romania

Case Study Presenting the Way to Find the Real Stereochemistry of a Complex Compound Obtained by Coordinating a Heterocyclic Ligand Belonging to 1,4-naphthoquinone Series to Ni(II) Transitional Metal Ion

16^{10} – 16^{20}

ON.14. Liana-Simona SBIRNA, Sebastian SBIRNA

University of Craiova, Faculty of Sciences, Craiova, Romania
Technical University of Denmark, Denmark

Using Python Multi-paradigm Programming Language in Evaluating the Antibacterial Activity of a Ni(II) Complex Compound Compared to That of Its Free Organic Ligand Belonging to 1,4-naphthoquinone Series

16^{20} – 16^{30}

ON.15. Sebastian SBIRNA

Technical University of Denmark, Denmark

Commercialization Frameworks for Bioactive Compounds and Life-Science Innovation

16^{30} – 16^{40}

ON.16. Timeea-Anastasia CIOBANU, Florin BUCATARIU, Larisa-Maria PETRILA, Marius-Mihai ZAHARIA, and Marcela MIHAI

''Petru Poni'' Institute of Macromolecular Chemistry, Iasi, Romania

Catalase-Embedded Polyelectrolyte Multilayers on Sand for Environmental Remediation

16^{40} – 16^{50}

ON.17. Alfred Ngenge TAMFU, Ozgur CEYLAN, Milena POPOVA, Boryana TRUSHEVA, Selcuk KUCUKAYDIN, Mehmet Emin DURU, Vassya BANKOVA

University of Ngaoundere, Ngaoundere, Cameroon
Mugla Sitki Kocman University, Mugla, Turkiye

GC-MS chemical profiles, antimicrobial and quorum-quenching potential of *Meliponula beccarii* propolis and honey

Session 6D, D Building, room D012, 15^{00} – 15^{30}

Publication opportunities for young researchers and PhD students in scientific journals

Ionut Alexandru Spanu
Babes-Bolyai University, Cluj, Romania
Gabriel Murariu
Dunarea de Jos University of Galati, Romania
Simona Condurache-Bota
Dunarea de Jos University of Galati, Romania
Romana Drasovean
Dunarea de Jos University of Galati, Romania

WORKSHOP 2 ON REXDAN RESEARCH VESSEL, *Special session*
Workshop (15^{30}–17^{30})

***Supported by*: Cadrul inovator al managementului sedimentelor pentru un sistem sustenabil Dunăre–Marea Neagră – SUNDANSE, Contract nr. 83PHE/2024, Code project PN-IV-P8-8.1-PRE-HE-ORG-2024-0212**

DANUBE MONITORING KNOWLEDGE EXCHANGE

Sharing methods, experience, and good practices in Danube monitoring.

Conference Awards Ceremony and Closing Remarks
D Building, room D012, 18^{30} – 19^{30}

Cocktail Dinner and Networking, 19^{30} – 20^{30}
D Building, Science Campus, 111 Domnească Street

Scientific Program
Saturday, 10 October

Coffee & Networking 09^{00} – 10^{00}
D Building

General Assembly of Romanian Chemical Society
D012, 10^{00}

Education for a Sustainable Life (*for pre-university teachers*)
D011, 10^{00}

Farewell reception 12^{00}, D Building

Self-Guided City Exploration

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