## CONFERINȚA NAȚIONALĂ CHIMIE. MEDIU. ENERGIE

**The VIII th Edition, 12 November 2026**

**Ap9 ROOM**

**STUDENTS SECTION**

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| **8:30 - 9:00** | ***Registration of the participants*** |
| **9:00 – 9:05** | ***Official Opening of the conference*** |
| **9:05 – 9:10** | ***Rector of Petroleum Gas University of Ploiesti – Assoc. Prof. Hab. PhD. Eng. Alin DINIȚĂ*** |
| **9:10 – 9:15** | ***Dean of Petroleum Refining and Petrochemistry Faculty – Assoc. Prof. PhD. Eng. Cristina Maria DUȘESCU-VASILE*** |
| **9:15 - 9:20** | ***President of the scientific committee – Assoc. Prof. PhD. Eng. Raluca DRAGOMIR*** |
| 9:30 – 9:40 | **Optimization of Methylene Blue Adsorbtion Onto Agri-food Waste Using Response Surface Methodology**<br>Eusebiu Cojocaru, Margherita Zakieva, Nicolae Spînu, Maxim Vornicescu, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Prof. hab. PhD Eng. Daniela Roxana Popovici, Assist. Prof. PhD. Eng. Mihai Palade |
| 9:40 – 9:50 | **Removal of Methylene Blue by Adsorbtion Onto Agri-Food Waste – Kinetics Study**<br>Ionela Natalia Oprica, Denisa Maria Marinescu, Mihai Răzvan Popescu, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Prof. hab. PhD Eng. Daniela Roxana Popovici, Assist. Prof. PhD. Eng. Mihai Palade |
| 9:50 – 10:00 | **Essential Oils as a Natural Antioxidants for Vegetable Oils**<br>Robert-Gabriel Plăcintă, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. Eng. Dănuța Matei |
| 10:00 – 10:10 | **Sustainable Development of Functional Pasta Enriched with Alfalfa Protein Concentrate**<br>Tatiana Gariuc, Iana Ciugureanu, Faculty of Food Technology, Technical University of Moldova, Chișinău, Republic of Moldova<br>Coordinators: Assoc. Prof. PhD Viorica Bulgaru, Assoc. Prof., Hab. PhD Aliona Ghendov-Moșanu |
| 10:10 – 10:20 | **Chemical Contaminants in the Food Chain and their Impact on Human Health**<br>Anastasia Cernega, Technical University of Moldova, Chisinau, Republic of Moldova<br>Coordinator: Assoc. Prof. PhD Eng. Olga Boeștean |
| 10:20 – 10:30 | **Alfalfa (Medicago sativa L.) – a Promising Source of Protein for the Development of Innovative Food Products** |

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| | Victoria Bonari, Corina Puşcaş, Iana Ciugureanu, Faculty of Food Products, Technical University of Moldova, Chișinău, Republic of Moldova<br>Coordinators: Assoc. Prof. PhD Viorica Bulgaru, Assoc. Prof. PhD Angela Gurev |
| 10:30 – 10:40 | **Valorization of the Protein Potential of Oilseed Industry By-Products in the Development of Bakery Products**<br>Cristina Armas, Doina Luchita, Faculty of Food Technology, Technical University of Moldova, Chisinau, Republic of Moldova<br>Coordinator: Assoc. Prof. PhD Natalia Netreba |
| 10:40 – 10:50 | **Yeast Hydrolysis and the Synthesis of Chelates Based on Hydrolyzed Yeast**<br>Carmen-Sara Ciobanu, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Prof. PhD Eng. Dorin Bomboș |
| 10:50 – 11:00 | **Smarter, Faster, Safer. AI's Impact on the Oil Sector**<br>Leonid-Octavian Suceveanu, Mihai-Serban Savon, Andrei-Sebastian Sucala, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. biochem. Cătălina Gabriela Gheorghe |
| **11:00 – 11:20** | **COFFEE BREAK** |
| 11:20 – 11:30 | **Study Regarding the Influence of Guar Gum on the Stability of Natural Juices**<br>Amalia Pascaru, Anastasia Florian, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Prof. hab. PhD Eng. Diana-Luciana Cursaru |
| 11:30 – 11:40 | **Corrosion Control of Steel in 20% $CH_3COOH$ Solution for Well Acidizing Using Non-Conventional Inhibitors**<br>Sofia Oleinic, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assist. Prof. PhD. Eng. Daniela Movileanu |
| 11:40 – 11:50 | **Valorization of Citrus Waste in Bioplastic Synthesis**<br>Irina Manea, Simona Nedeloiu, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. Eng Matei Dănuța |
| 11:50 – 12:00 | **Potassium Alum as a Host Matrix for Fluorophores,**<br>Andrei Leonte, Matei Codruț Sârbu, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. PhD Eng. Gabriela Antoaneta Apostolescu |
| 12:00 – 12:10 | **Allotropes of Carbon: From Diamond and Graphite to Graphene and Carbon Nanotubes**<br>Robert-Constantin Jăchil, Luiza-Sabina Butnaru, Codrin-Constantin Rîpanu, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. PhD Eng. Gabriela Antoaneta Apostolescu |

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| 12:10 – 12:20 | **Copper Recycling - From Waste to Secondary Raw Material**<br>Mădălina Ciubotaru, Dumitrița Chirița, Eva Țîgleanu, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. PhD Eng. Gabriela Antoaneta Apostolescu |
| 12:20 – 12:30 | **Adsorptive Removal of Methylene Blue from Aqueous Solutions Using Different Activated Carbons: A Comparative Study**<br>Petru Lucian Aruștei, Anna Michelle Grillo, Mihai Bolea, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. PhD Eng. Nicolae Apostolescu |
| 12:30 – 12:40 | **Flexible Waterproofing Mortars Based on Industrial Waste: Long-Term Performance and Lower Carbon Footprint**<br>Angelica Oprea, Otilia-Gabriela Hăbășescu, Alexandra Ceban, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. hab. PhD Eng. Maria Harja |
| 12:40 – 12:50 | **Influence of Surface Functionalization and Operating Conditions on Phosphate Adsorption Performance**<br>Andrei Pascu, Alexandra Toderică, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", "Gheorghe Asachi" Technical University of Iasi<br>Coordinator: Prof. PhD Eng. Ramona-Elena Tataru-Fărmuș |
| 12:50 – 13:00 | **Smart Protective Film for Fruit Freshness and Spoilage Monitoring**<br>Alin Marian Florea, Miruna Elena Danescu, Rebeca Moise, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. biochem. Cătălina Gabriela Gheorghe |
| 13:00 – 13:10 | **Juices and Vitamin C: Between Promises and Reality**<br>Maria Carmen Datcu, Elena Lavinia Pădurariu, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. Eng. Cristina Dușescu-Vasile |
| **13:20– 14:10** | **LUNCH** |
| 14:20 – 14:30 | **Valorization of Spent Lithium-Ion Batteries: Cobalt Recovery and Development of Co-Mn Catalyst for Toluen Oxidation**<br>Eugenia-Gabriela Purda, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. Eng. Cristina Dușescu-Vasile |
| 14:30 – 14:40 | **Preventing Offshore Disasters Through Digitalization and Artificial Intelligence: A Case Study of the Deepwater Horizon Oil Spill**<br>Matei Blaga, Marian-Albert Dediu, Faculty of Petroleum-Gas Engineering, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. biochem. Cătălina Gabriela Gheorghe |
| 14:40 – 14:50 | **Removal of Methylene Blue and Brilliant Green Using Agricultural Waste** |

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| | Sofia Oleinic, Dumitrița Pascaru, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinators: Assist. Prof. PhD. Eng. Daniela Luminița Movileanu, Assist. Prof. PhD. Eng. Liviu Filotti |
| 14:50 – 15:00 | **Removal of Heavy Metals from Refinery Effluents Using Eggshell-Derived Calcium Hydroxide**<br>Iuliana Hajder, Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiești<br>Coordinator: Assoc. Prof. PhD. Eng. Cristina Dușescu-Vasile |
| **16:00** | **PARTICIPANTS AWARD** |