

# SICHEM 2024

---

## CONFERENCE PROGRAMME

**11 – 12 April 2024**

**Romanian Chemical Engineering Society**

**Romanian Chemical Society**

**Academy of Technical Sciences – Chemical Engineering Section**

**National University of Science and Technology POLITEHNICA Bucharest,  
Faculty of Chemical Engineering and Biotechnologies**  
(Departments of **Chemical and Biochemical Engineering** and  
**Science and Engineering of Oxide Materials and Nanomaterials**)

## Bucharest

Bucharest is the capital and largest city of Romania. It is located in the southeast of the country, on the banks of Dâmbovița River, less than 60 km north of the Danube River and the Bulgarian Border.

Bucharest was first mentioned in documents in 1459 as one of the residences of Prince Vlad III Dracula. The city became the capital of Romania in 1862.

Its architecture is a mix of historical (mostly eclectic, neoclassical and Art Nouveau), interbellum (Bauhaus, Art Deco and Romanian Revival architecture), communist and modern styles. In the period between the two World Wars, the city's elegant architecture and the sophistication of its elite earned Bucharest the nickname of “Little Paris”.

The city, with an area of 240 km<sup>2</sup>, has a continental climate with four seasons and it is the center of Romania's industry, culture, art, history, and finance. It has a population of 2 million that increases during the school period being the 6<sup>th</sup> largest city in the European Union by population within city limits.

Bucharest is worth visiting for its large beautiful parks and its emblematic historical monuments, *e.g.*, the statues of Mihai Viteazul and Spiru Haret (rulers/founders of the modern Romanian school in the University Square), statue of Carol I (situated in front of “Carol I” Central University Library), *Monument of Victory* (placed in Revolution Square) or *Arc of Triumph* (similar with the ones in Rome and Paris).

We recommend you to visit the *Bucharest Old City*, *National Theater*, *Museum of Art* (former *Royal Palace*), *Romanian Atheneum* or *Kretzulescu Church* (build in Romanian original Brancovenesc style) for their architectural value.

For an interesting experience related to the Romanian traditions and house styles from 14th-19th centuries, visit the *Village Museum*, an open-air ethnographic museum located in the *King Michael I Park* (formerly *Herăstrău*) with over 270 authentic farms and houses from all over Romania.



*Mihai Viteazul Monument*  
(University Square)



*Spiru Haret Monument*  
(University Square)



*National Theatre*  
(University Square)



*Kretzulescu Orthodox Church*  
(45 Calea Victoriei Blvd. – next to  
the *Museum of Art*)



*Museum of Art*  
(49-53 Calea Victoriei Blvd. –  
close to *Romanian Atheneum*)



*Arc of Triumph*  
(close to *King Michael I Park*)



*Romanian Atheneum*  
(1-3 Benjamin Franklin, close to  
Calea Victoriei Blvd.)



*Carol I Monument*  
(1 Boteanu Street – next to  
*Romanian Atheneum*)



*Village Museum*  
(28-30 Pavel Kiseleff Street – inside  
*King Michael I Park*)

## Venue

*National University of Science and Technology POLITEHNICA Bucharest* is the oldest and most prestigious engineer school in Romania. Its traditions are related to the establishment, in 1818, by Gheorghe Lazăr, of the first higher technical school with teaching in Romanian, at the *Saint Sava Abbey* in Bucharest.

On 1 October 1864, *The School of Bridges and Roads, Mines and Architecture* was established, which became, on 30 October 1867, *The School of Bridges, Roads and Mines*. Under the leadership of Gheorghe Duca, on 1 April 1881, the institution acquired a new structure, under the name of *The National School of Bridges and Roads*; on 10 June 1920, the *Polytechnic School of Bucharest* was founded, with four departments: Electromechanics, Civil Engineering, Mines and Metallurgy, Industrial Section.

On 3 August 1948, the *Polytechnic Institute of Bucharest* was founded, which initially included 4 faculties and in which, since 1950, have appeared most of the current faculties. Based on the resolution of the Senate of November 1992, the *Polytechnic Institute of Bucharest* became *University POLITEHNICA of Bucharest (UPB)*. In 2023, by merging with the *University of Pitesti*, *UPB* became *National University of Science and Technology POLITEHNICA Bucharest*.

Today, *POLITEHNICA Bucharest* ([www.upb.ro](http://www.upb.ro)) gathers 15 different faculties, classrooms and laboratories that are distributed in 3 distinct residences: **Polizu** (1-7 Gheorghe Polizu St.), **Noul Local** (313 Splaiul Independenței), and **Leu** (1-3 Iuliu Maniu Blvd.).

*POLITEHNICA Bucharest* runs a series of doctoral and post-doctoral programs for students from EU and non-EU countries as well as mobility programs for staff and students.



POLITEHNICA Bucharest (Rectorate)

The **International Chemical Engineering and Material Symposium - SICHEM 2024**, will take place at Central Library of POLITEHNICA Bucharest (2<sup>nd</sup> Floor) located in 313 Splaiul Independenței.



Central Library of POLITEHNICA Bucharest



Central Library of POLITEHNICA Bucharest (front entrance)

Local host (contact details): [tghdobre@gmail.com](mailto:tghdobre@gmail.com)

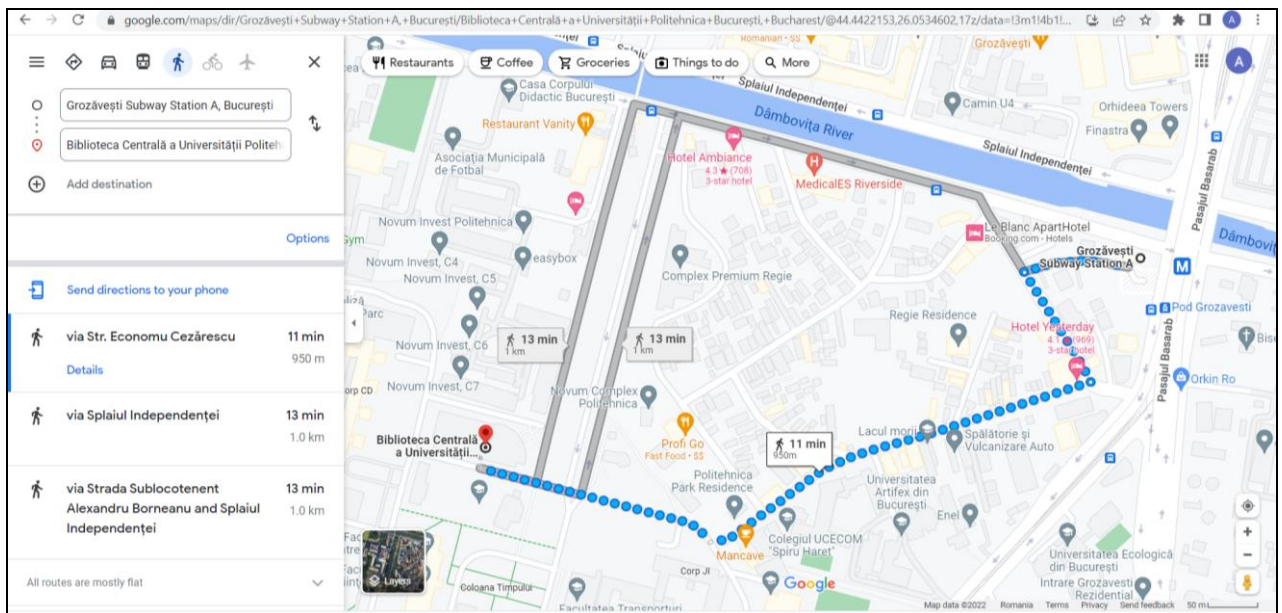
### How to reach Bucharest

The nearest airport is **Henri Coanda Airport (Otopeni)** (<https://www.aeroportul-otopeni.info/>) which is about 13 km from Bucharest City Center, around 45 min by bus and 25 min by car.

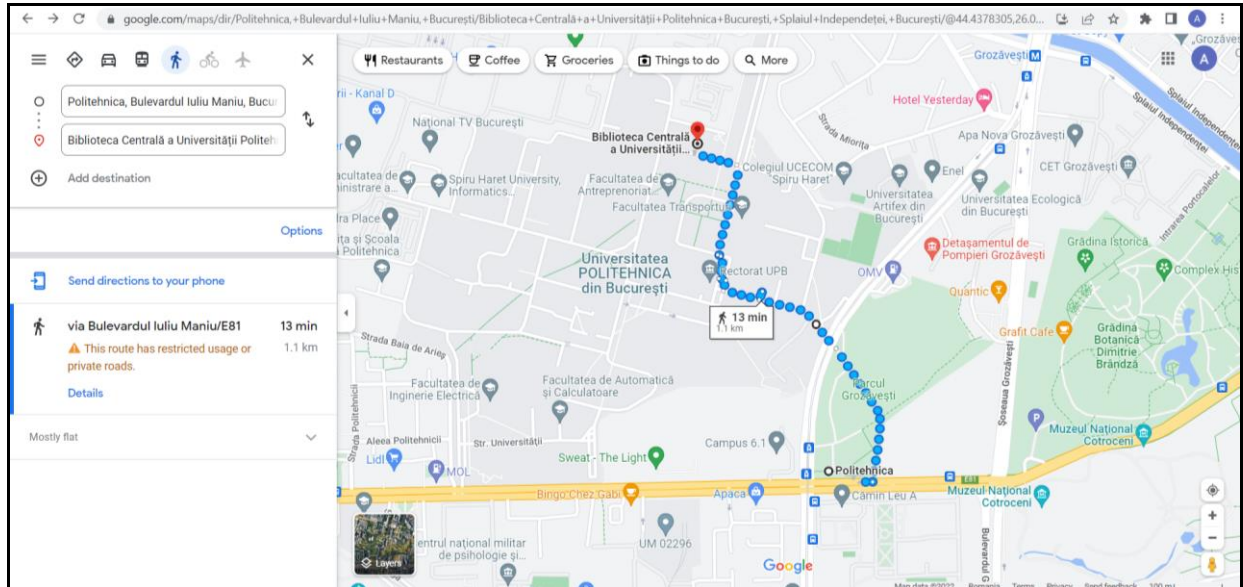
A direct shuttle bus no. 783 can conveniently be taken from the arrivals terminal to the closest Subway Station (**Piata Victoriei**). One-way ticket/pass card is approx. 3 lei (0,6 euro) and can be paid by card directly to the bus or from the information office inside the airport. Tickets/pass cards for return can be bought from any ticket kiosk placed in every bus station.

### How to reach Central Library of POLITEHNICA Bucharest

Take the **Subway** from Piața Unirii in **Dristor direction** (**M1 – yellow line**) and get off at **Grozăvești** subway station (**blue dot on the map**). You can buy the passing cards from the kiosk or automatic machines (for a round trip – approx. 5 lei – 1 euro) or you can pay by card at the turnstile only for 1 trip (1 trip is approx. 3 lei – 0.6 euro).



**Alternative way:** take the **Subway** from Piața Unirii in **Preciziei direction (M3 – red line)** and get off at **Politehnica** subway station (**red dot on the map**). Please use the indicated direction for POLITEHNICA Bucharest after you get off the Subway.



## Meals & Accommodation

### Meals & coffee breaks

Lunches, drinks, and coffee breaks will be provided by the local organizer.

### Accommodation

The conference organizer does not offer accommodation spaces, but if you prefer a close accommodation to the Venue of the Conference we suggest Hotel Yesterday (3\*\*\* - <https://yesterday.ro/>) and Hotel Pui de Urs (3\*\*\* - <https://hotel-pui-de-urs-bucharest.hotelmix.ro/>).

## SICHEM 2024

Central Library of POLITEHNICA Bucharest

### PROGRAMME OVERVIEW

Thursday, April 11			
9:00–10:00	Registration (2 <sup>nd</sup> Floor)		
10:00–10:40	OPENING CEREMONY (2 <sup>nd</sup> Floor – 2.1 Room)		
10:40–11:10	120 YEARS SINCE THE BIRTH OF ACAD. PROF. DR. ENG. EMILIAN BRATU (2 <sup>nd</sup> Floor – 2.1 Room)		
11:10–12:10	EXCELLENCE AWARDS (2 <sup>nd</sup> Floor – 2.1 Room)		
12:10–12:30	Coffee break (2 <sup>nd</sup> Floor)		
12:30–14:05	Plenary Lectures and Companies Presentations (2 <sup>nd</sup> Floor – 2.1 Room) Microsoft Teams/ SICHEM 2024 – General Channel		
12:30–13:10	Professor Fabrice GROS (Clermont Auvergne University, France) <i>Unraveling the complexity of photoreactive systems</i>		
13:10–13:25	Senior Scientist Anca Daniela RAICIU (HOFIGAL S.A., Romania) <i>HOFIGAL–Romanian natural brand</i>		
13:25–14:05	Professor Philippe MICHAUD (Clermont Auvergne University, France) <i>Screening, identification and implementation of polysaccharides from microalgae as biological agents and hydrocolloids</i>		
14:05–15:00	Lunch (2 <sup>nd</sup> Floor)		
15:00–16:20	Plenary Lectures (2 <sup>nd</sup> Floor – 2.1 Room) Microsoft Teams/ SICHEM 2024 – General Channel		
15:00–15:40	Professor Ioan CĂLINESCU (POLITEHNICA Bucharest, Romania) <i>Ultrasound and microwaves useful tools in process intensification</i>		
15:40–16:20	Senior Scientist Mircea VÎNĂTORU (POLITEHNICA Bucharest, Romania) <i>Sonochemistry – origins and evolution</i>		
16:20–16:40	Coffee break (2 <sup>nd</sup> Floor)		
16:40–18:00	Parallel Sessions A, B, and D Oral and Poster Presentations		
	Keynote Lectures and Oral Presentations		
	Session A (2.1 Room) Microsoft Teams/ SICHEM 2024/Channel A	Session B (2.2 Room) Microsoft Teams/ SICHEM 2024/Channel B	Session D (3.2 Room) Microsoft Teams/ SICHEM 2024/Channel D
14:00–16:30	Poster Sessions A, C and D (2 <sup>nd</sup> Floor)		

Friday, April 12				
<b>09:00–11:10</b>	<b>Plenary Lectures and Companies Presentations (2<sup>nd</sup> Floor – 2.1 Room)</b> <b>Microsoft Teams/ SICHEM 2024 – General Channel</b>			
9:00–9:40	<b>Professor Tănase DOBRE (POLITEHNICA Bucharest)</b> <i>From where to where in chemical engineering by paradigms</i>			
9:40–10:20	<b>Senior Scientist Andrei SÂRBU (INCDCP-ICECHIM, Romania)</b> <i>Advanced ceramic powders obtained via host guest polymerization</i>			
10:20–10:35	<b>Chemical Engineer Cosmin DRĂGOI (LABORATORIUM S.A.)</b> <i>LABORATORIUM–Present and future</i>			
10:35–10:45	<b>Chemical Engineer Sandra TUȚĂ (BIOTECH-AVANTOR ROMANIA)</b> <i>AVANTOR–From research to production</i>			
10:45–10:55	<b>Chemical Engineer Ciprian VATCA (MERCK ROMANIA)</b> <i>Sustainable innovations and technology, Merck DOZN tool</i>			
10:55–11:10	<b>Chemical Engineer Adrian ROȘCA (CHEMCO TRADE S.R.L.)</b>			
<b>11:10–11:30</b>	<b>Coffee break (2<sup>nd</sup> Floor)</b>			
<b>11:30–13:30</b>	<b>Plenary Lectures and Companies Presentations (2<sup>nd</sup> Floor – 2.1 Room)</b> <b>Microsoft Teams/ SICHEM 2024 – General channel</b>			
11:30–12:10	<b>Senior Scientist Mișu MOSCOVICI (National Institute of Chemical Pharmaceutical R&amp;D-ICCF, Romania)</b> <i>Microbial biopolymers research in the National Institute of Chemical Pharmaceutical Research and Development (ICCF)</i>			
12:10–12:50	<b>Professor Christophe VIAL (Clermont Auvergne University, France)</b> <i>Hydrogen gas mass transfer in aqueous media: application to biological methanation</i>			
12:50–13:30	<b>Senior Scientist Marius STAN (Argonne National Laboratory, University of Chicago, USA)</b> <i>Artificial intelligence for chemical engineering</i>			
<b>13:30–14:30</b>	<b>Lunch (2<sup>nd</sup> Floor)</b>			
<b>Parallel Sessions A, B, C and D</b> <b>Oral and Poster Presentations</b>				
<b>14:30–16:10</b>	<b>Session A</b> <b>(2.1 Room)</b> Microsoft Teams/ SICHEM 2024/ Channel A	<b>Session B</b> <b>(2.2 Room)</b> Microsoft Teams/ SICHEM 2024/ Channel B	<b>Session C</b> <b>(2.3 Room)</b> Microsoft Teams/ SICHEM 2024/ Channel C	<b>Session D</b> <b>(3.2 Room)</b> Microsoft Teams/ SICHEM 2024/ Channel D
<b>16:10–16:30</b>	<b>Coffee break (2<sup>nd</sup> Floor)</b>			
<b>14:00–16:30</b>	<b>Poster Sessions A, C and D (2<sup>nd</sup> Floor)</b>			
<b>16:30–17:00</b>	<b>AWARDS and CLOSING CEREMONY</b>			

## CONFERENCE PROGRAMME ORAL COMMUNICATIONS

Thursday, April 11

<b>10:00–10:40 OPENING CEREMONY</b> , Microsoft Teams/ SICHEM 2024 <b>Chairpersons: Prof. Tănase DOBRE, Prof. Anton FICAI</b>
GREETINGS FOR ORGANIZERS: <b>MIHNEA COSTOIU</b> , RECTOR OF POLITEHNICA BUCHAREST GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>TUDOR PRISECARU</b> , VICE-RECTOR AND PRESIDENT OF THE SENATE OF POLITEHNICA BUCHAREST GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>HORIA IOVU</b> , VICE-RECTOR GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>CRISTINA ORBECI</b> , DEAN OF FACULTY OF CHEMICAL ENGINEERING AND BIOTECHNOLOGIES GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>ECATERINA ANDRONESCU</b> , SICHER FOUNDER GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>VALERIU JINESCU</b> , PRESIDENT OF TECHNICAL SCIENCES ACADEMY OF ROMANIA (ASTR) GREETINGS FOR ORGANIZERS: PROF. DR. ENG. <b>ILEANA RĂU</b> , DIRECTOR OF DOCTORAL SCHOOL OF FACULTY OF CHEMICAL ENGINEERING AND BIOTECHNOLOGIES GREETINGS FOR ORGANIZERS: DR. <b>MIHAELA DONI</b> , GENERAL MANAGER OF ICECHIM BUCHAREST GREETINGS FOR ORGANIZERS: DR. ENG. <b>LUCIA PINTILIE</b> , ICCCF, HEAD OF DEPARTMENT <i>SYNTHESIS OF BIOACTIVE SUBSTANCES AND TECHNOLOGIES</i>
<b>10:40–11:10 120 YEARS SINCE THE BIRTH OF ACAD. PROF. DR. ENG. EMILIAN BRATU</b> <b>Chairpersons: Prof. Gheorghita JINESCU, prof. Ecaterina ANDRONESCU, prof. Tănase DOBRE</b>
<b>11:10–12:10 SICR EXCELLENCE AWARDS</b> <b>Chairpersons: Prof. Tănase DOBRE, Prof. Tiberiu DANCIU, Prof. Anton FICAI</b>
WORDS IN HONOR OF PROF. DR. ENG. <b>EMIL DANCIU</b> LAUDATIO: PROF. DR. ENG. <b>GRIGORE BOZGA</b>
WORDS IN HONOR OF PROF. DR. ENG. <b>GHEORGHITA JINESCU</b> LAUDATIO: PROF. DR. ENG. <b>VASILE LAVRIC</b>
WORDS IN HONOR OF PROF. DR. ENG. <b>VALERIU JINESCU</b> LAUDATIO: PROF. DR. ENG. <b>TĂNASE DOBRE</b>
WORDS IN HONOR OF DR. ENG. <b>MIȘU MOSCOVICI</b> LAUDATIO: DR. ENG. <b>LUCIA PINTILIE</b>
WORDS IN HONOR OF PROF. DR. ENG. <b>ROMULUS MINEA</b> LAUDATIO: ASSOC. PROF. DR. ENG. <b>ANDRA TĂMAȘ</b>
WORDS IN HONOR OF <b>HOFIGAL S.A.</b> AND GENERAL MANAGER ENG. <b>CRISTINA MANEA</b> LAUDATIO: PROF. DR. ENG. <b>IOAN CĂLINESCU</b>
WORDS IN HONOR OF <b>ALBA ALUMINIU S.R.L.</b> AND DR. ENG. <b>ION DRAGNEA</b> LAUDATIO: PROF. DR. ENG. <b>TĂNASE DOBRE</b>
WORDS IN HONOR OF <b>FRESH AIR S.R.L.</b> AND ENG. <b>ALEXANDRU ISOPESCU</b> LAUDATIO: PROF. DR. ENG. <b>TĂNASE DOBRE</b>
<b>12:10–12:30 Coffee break (2<sup>nd</sup> Floor)</b>
<b>12:30–14:05 PLENARY LECTURES AND COMPANIES PRESENTATIONS</b> 2 <sup>nd</sup> Floor – 2.1 Room/ Microsoft Teams/ SICHEM 2024 General Channel <b>Chairpersons: Prof. Dănuț Ionel VĂIREANU, Assoc. Prof. Paula POSTELNICESCU</b>
12:30–13:10 <b>Plenary Lecture – online</b> <b>Fabrice GROS, Guillaume FOIN, Jérémie DAUCHET, Thomas VOURC’H, Jean-François CORNET,</b> <i>UNRAVELING THE COMPLEXITY OF PHOTOREACTIVE SYSTEMS</i>
13:10–13:25 <b>Time for HOFIGAL S.A.</b> <b>Anca Daniela RAICIU, HOFIGAL–Romanian natural brand</b>
13:2 –14:05 <b>Plenary Lecture – online</b> <b>Philippe MICHAUD, SCREENING, IDENTIFICATION AND IMPLEMENTATION OF POLYSACCHARIDES FROM MICROALGAE AS BIOLOGICAL AGENTS AND HYDROCOLLOIDS</b>
<b>14:05–15:00 Lunch (2<sup>nd</sup> Floor)</b>

**15:00–16:20 PLENARY LECTURES**

2<sup>nd</sup> Floor – 2.1 Room/ Microsoft Teams/ SICHEM 2024 General Channel

**Chairpersons: Prof. Ioan CĂLINESCU, Senior Scientist Mircea VÎNĂTORU**

15:00–15:40 Plenary Lecture

**Ioan CĂLINESCU, Mircea VÎNĂTORU, *ULTRASOUND AND MICROWAVES USEFUL TOOLS IN PROCESS INTENSIFICATION***

15:40–16:20 Plenary Lecture

**Mircea VÎNĂTORU, Timothy J. MASON, *SONOCHEMISTRY – ORIGINS AND EVOLUTION***

**16:20–16:40 Coffee break (4th Floor)**

**16:40–18:00 Session A Chemical and Biochemical Engineering (CBE)**

2<sup>nd</sup> Floor – 2.1 Room/ Microsoft Teams/ SICHEM 2024 Channel A

**Chairpersons: Assoc. Prof. Ionuț BANU, Assoc. Prof. Gabriela ISOPENCU**

16:40–16:50 Oral Presentation (SA OP02)

**Dan A. VASILIU, Oana C. PÂRVULESCU, Iuliana DELEANU, Cristina I. GOGOĂȘĂ, Cristian E. RĂDUCANU, Tănase DOBRE, *TECHNOLOGICAL SOLUTIONS FOR OBTAINING BACTERIAL CELLULOSE MEMBRANES WITH LARGE SURFACE AREA***

16:50–17:00 Oral Presentation (SA OP03)

**Adela CIOBANU, Carmen ROBA, Cristina MODOI, Alexandru OZUNU, *THERMAL TREATMENT AND GREEN TECHNOLOGY IN MEDICAL WASTE MANAGEMENT***

17:00–17:10 Oral Presentation (SA OP04)

**Marius Daniel DOGEANU, Alexandru OZUNU, *CONTRIBUTIONS ON THE USE OF VIRTUAL TRAINING IN IMPROVING THE RESPONSE TO CIVIL PROTECTION CONTEXTS***

17:10–17:20 Oral Presentation (SA OP08)

**Grigore PSENOVSCHI, Ioan CĂLINESCU, Petre CHIPURICI, Mihaela COJOCARU, Ciprian CHISEGA NEGRILĂ, *FUELS FROM WASTE PLASTICS BY PYROLYSIS***

17:20–17:30 Oral Presentation (SA OP12)

**Andrea BOGYOR, Tamás LOVÁSZ, Graziella TURDEAN, Alexandra CSAVDARI, *PHYSICAL – CHEMISTRY ASPECTS OF METHYLENE BLUE AND ITS ANALOGUE'S ADSORPTION FROM AQUEOUS ENVIRONMENTS***

17:30–17:40 Oral Presentation (SA OP01) – online

**Loredana-Vasilica POSTOLACHE, Ion ANGHEL, Dana Maria PREDĂ, Gabriela ȘOREANU, Igor CRETESCU, Gabriela LISA, *STUDIES ON ENERGY RECOVERY FROM WASTES USING THE MICROSCALE COMBUSTION CALORIMETER (MCC)***

17:40–17:50 Oral Presentation (SA OP07) – online

**Ionuț-Alexandru POPA, Oana C. PÂRVULESCU, Petre CHIPURICI, Tănase DOBRE, *MODELING OF VOLATILE ORGANIC COMPOUNDS FLOW RATE PRODUCED IN PAINTING INSTALLATIONS FROM AUTOMOTIVE INDUSTRY***

17:50–18:00 Oral Presentation (SA OP13) – online

**Qinglan LI, Misagh KERAMATI, Jean-Sébastien GUEZ, Pierre FONTANILLE, David DUCHEZ, Frederic BRUN, Alina-Violeta URȘU, Jean-Pierre FONTAINE, Christophe VIAL, *MASS TRANSFER OF H<sub>2</sub> IN AQUEOUS MEDIA FOR BIOLOGICAL METHANATION: INFLUENCE OF MICROORGANISMS AND OPERATING CONDITIONS***

**16:40–17:50 Session B Applied organic, inorganic and supramolecular chemistry (AOISC)**

2<sup>nd</sup> Floor – 2.2 Room/ Microsoft Teams/ SICHEM 2024 Channel B

**Chairpersons: Prof. Ana Maria JOSCEANU, Prof. Raluca ISOPESCU**

16:40–17:00 Keynote Lecture (SB KN01) - online

**Reddad El MOZNINE, Soumia ZAIM, I. SABIR, Halima RCHID, Christophe VIAL, Philippe MICHAUD, Alina-Violeta URȘU, Rachid NMILA, *A NEW APPROACH BASED ON THE ANALYSIS OF THE COMPLEX CONDUCTIVITY FOR THE IDENTIFICATION OF THE OPTIMUM ENTANGLEMENT CONCENTRATION OF POLYSACCHARIDE IN AQUEOUS SOLUTIONS***

17:00–17:10 Oral Presentation (SB OP01)

**Hüseyin İLCAN, Mustafa ŞAHMARAN, *CIRCULAR ECONOMY BASED SOLUTIONS DEMONSTRATING THE EFFICIENT RECOVERY OF VALUABLE MATERIAL RESOURCES FROM THE CONSTRUCTION AND DEMOLITION WASTE***

17:10–17:20 Oral Presentation (SB OP02)

**Ana Maria JOSCEANU, Raluca ISOPESCU, Elisabeta-Irina GEANĂ, Corina CIUCURE,**  
*MULTIVARIATE STATISTICAL TOOLS FOR APICULTURAL PRODUCTS QUALITY EVALUATION BASED ON SPECTRAL INFORMATION*

17:20–17:30 Oral Presentation (SB OP03)

**Vera-Maria PLATON, Liliana MITITELU TARȚĂU, Bianca-Iustina ANDREICA, Luminița MARIN,**  
*BIODEGRADABLE CHITOSAN/QUATERNIZED CHITOSAN NANOFIBERS LINKED WITH AN ANTIOXIDANT COMPOUND FOR THE DELIVERY OF ERYTHROMYCIN*

17:30–17:40 Oral Presentation (SB OP05)

**Iulian BERLADEAN, Irina CÂRLESCU, Yahia BOUSSOUALEM, Abdelylah DAOUDI, Nicolae HURDUC,**  
*INFLUENCE OF FLUORINE LATERAL SUBSTITUTION ON PHOTOISOMERIZATION PROCESS OF AZOBENZENE BENT-CORE LIQUID CRYSTALS*

17:40–17:50 Oral Presentation (SB OP04) - online

**Liliana LAZĂR, Valeria DANILOVA, Florin BANDRABUR, Ioan MĂMĂLIGĂ,**  
*THE INFLUENCE OF MASS TRANSPORT ON THE ELECTROCRYSTALLISATION PROCESS*

**16:40–18:00 Session D Green applied chemistry and agro-resources valorization (GACARV)**

3<sup>rd</sup> Floor – 3.2 Room/ Microsoft Teams/ SICHEM 2024 Channel D

**Chairpersons: Prof. Ovidiu OPREA, Assoc. Prof. Ioana MAIOR**

16:40–17:00 Keynote Lecture (SD KN02)

**Anca Daniela RAICIU,**  
*IMPROVEMENT OF METABOLIC DISORDERS WITH THE HELP OF GEMMOTHERAPY*

17:00–17:20 Keynote Lecture (SD KN01)

**Ana-Maria BREZOIU, Mihaela DEACONU, Raul-Augustin MITRAN, Cristian MATEI, Daniela BERGER,**  
*POLYPHENOLIC EXTRACTS FROM VARIOUS RAW-MATERIALS. BENEFICIAL PROPERTIES PRESERVATION THROUGH INCORPORATION IN MESOPOROUS SILICA-TYPE SUPPORTS*

17:20–17:30 Oral Presentation (SD OP02)

**Ionuț-Alexandru SPĂNU, Carmen ROBA, Alexandru OZUNU,**  
*NAVIGATING WATER VULNERABILITIES IN RURAL SETTINGS: INVESTIGATING THE IMPACT OF AGRICULTURAL ACTIVITIES ON DRINKING WATER QUALITY*

17:30–17:40 Oral Presentation (SD OP04)

**Alexandra-Ioana CRĂCIUN, Carmen-Andreea ROBA, Maria BIZĂU-CÂRSTEA, Alexandru OZUNU,**  
*ASSESSMENT OF HEAVY METAL CONTAMINATION ON AGRICULTURAL SOILS IN THE VICINITY OF A HISTORICALLY POLLUTED AREA IN TURDA, CLUJ COUNTY*

17:40–17:50 Oral Presentation (SD OP01) - online

**Valeria POP, Alexandru OZUNU,**  
*EVALUATION OF RESEARCH INTERESTS FOR MICROPLASTICS IN ROMANIA*

17:50–18:00 Oral Presentation (SD OP14) - online

**Diana-Ioana BULIGA, Alexandra MOCANU, Edina RUSEN, Aurel DIACON, Gabriela TOADER, Oana BRÎNCOVEANU, Ioan CĂLINESCU, Aurelian Cristian BOSCORNEA,**  
*PHYCOCYANIN LOADED ALGINATE-BASED HYDROGELS WITH POTENTIAL MEDICAL APPLICATIONS*

## CONFERENCE PROGRAMME ORAL COMMUNICATIONS

Friday, April 12

### 09:00–11:10 PLENARY LECTURES AND COMPANIES PRESENTATIONS

2<sup>nd</sup> Floor - 2.1 Room/ Microsoft Teams/ SICHEM 2024 General Channel

**Chairpersons: Prof. Tănase DOBRE, Senior Scientist Andrei SÂRBU**

09:00–09:40 Plenary Lecture

**Tănase DOBRE**, *FROM WHERE TO WHERE IN CHEMICAL ENGINEERING BY PARADIGMS*

09:40–10:20 Plenary Lecture

**Andrei SÂRBU, Anita Laura CHIRIAC, Teodor SANDU, Andreea MIRON, Luminița MARA, Anca DUMITRU, Carmen LAZAU, Tanța Verona IORDACHE**, *ADVANCED CERAMIC POWDERS OBTAINED VIA HOST GUEST POLYMERIZATION*

10:20–10:35 Time for LABORATORIUM S.A.

**Cosmin DRĂGOI**, *LABORATORIUM–PRESENT AND FUTURE*

10:35–10:45 Time for BIOTECH AVANTOR

**Sandra TUȚĂ**, *AVANTOR–FROM RESEARCH TO PRODUCTION*

10:45–10:55 Time for MERCK ROMANIA

**Ciprian VATCA**, *SUSTAINABLE INNOVATIONS AND TECHNOLOGY, MERCK DOZN TOOL*

10:55–11:10 Time for CHEMCO TRADE S.R.L.

**Adrian ROȘCA**

11:10–11:30 Coffee break (4<sup>th</sup> Floor)

### 11:30–13:30 PLENARY LECTURES

2<sup>nd</sup> Floor – 2.1 Room/ Microsoft Teams/ SICHEM 2024 General Channel

**Chairpersons: Senior Scientist Radu FIERĂSCU, Senior Scientist Anamaria ZAHARIA**

11:30–12:10 Plenary Lecture

**Mișu MOSCOVICI**, *MICROBIAL BIOPOLYMERS RESEARCH IN THE NATIONAL INSTITUTE OF CHEMICAL PHARMACEUTICAL RESEARCH AND DEVELOPMENT-ICCF*

12:10–12:50 Plenary Lecture - *online*

**Christophe VIAL, Qinglan LI, Adib ESSID, Misagh KERAMATI, Alina-Violeta URSU, Pierre FONTANILLE, Jean-Sébastien GUEZ**, *HYDROGEN GAS MASS TRANSFER IN AQUEOUS MEDIA: APPLICATION TO BIOLOGICAL METHANATION*

12:50–13:30 Plenary Lecture - *online*

**Marius STAN**, *ARTIFICIAL INTELLIGENCE FOR CHEMICAL ENGINEERING*

13:30–14:30 Lunch (4<sup>th</sup> Floor)

### 14:30–16:00 Session A Chemical and Biochemical Engineering (CBE)

2<sup>nd</sup> Floor – 2.1 Room/ Microsoft Teams/ SICHEM 2024 Channel A

**Chairpersons: Assoc. Prof. Petrica IANCU, Assoc. Prof. Adina GAVRILĂ**

14:30–14:40 Oral Presentation (SA OP05)

**Angela Georgiana MAREȘ, Romuald GYÖRGY, Adina GAVRILĂ, Ionuț BANU**, *MODELING AND OPTIMIZATION OF A PROPYLENE GLYCOL PRODUCTION PLANT*

14:40–14:50 Oral Presentation (SA OP06)

**Iulia-Maria MIRCEA, Gheorghe BUMBAC, Romuald GYÖRGY, Ionuț BANU**, *1,4-BUTANEDIOL SYNTHESIS FROM MALEIC ANHYDRIDE – PROCESS ANALYSIS*

14:50–15:00 Oral Presentation (SA OP09)

**Laura E. PETRAȘ, Claudia I. MUNTEAN, Oana C. PÂRVULESCU, Tănase DOBRE, Iuliana DELEANU, Cristian E. RĂDUCANU, Elena STANCU**, *EFFECT OF AXIAL MIXING IN MODELLING OF THREE PHASES STEADY STATE GASOLINE HYDROFINING*

15:00–15:10 Oral Presentation (SA OP10)

**Bogdan TRICĂ, Dragoș-Sebastian BALTAG, Raluca ȘOMOGLI, Marius GHIUREA, Florin OANCEA,** *PURIFICATION OF SODIUM LIGNOSULFONATE BY PARTIAL PRECIPITATION AND CROSS-FLOW FILTRATION ON CERAMIC MEMBRANES*

15:10–15:20 Oral Presentation (SA OP11)

**Bogdan TRICĂ, Dragoș-Sebastian BALTAG, Raluca ȘOMOGLI, Marius GHIUREA, Florin OANCEA,** *ESTIMATING THE PURITY OF SODIUM LIGNOSULFONATE IN BROWN LIQUOR USING TEM/EDX*

15:20–15:30 Oral Presentation (SA OP14)

**David I. NECULA, Nicolae G. PANAINTE, Ancaelena E. STERPU,** *EFFECT OF TEMPERATURE AND EMULSIFIER DOSAGE ON WATER SEPARATION FROM CRUDE OIL EMULSION*

15:30–15:40 Oral Presentation (SA OP15)

**Erdin FEIZULA, Oana C. PĂRVULESCU, Mădălina ROTARU, Tănase DOBRE, Timur CHIȘ,** *LABORATORY LEACHING TESTS AS METHOD TO EVALUATE THE SOIL HEALTH*

15:40–15:50 Oral Presentation (SA OP16)

**Andrei BĂRBULESCU, Iulian DUȚU, Timur CHIȘ, Laurențiu PRODEA,** *STOCHASTIC MODELING OF THE PROCESS OF TERTIARY EXPLOITATION OF CRUDE DEPOSITS*

15:50–16:00 Oral Presentation (SA OP17)

**Diana-Rita BEJAN, Daniel IANCU, Timur CHIȘ, Laurențiu PRODEA,** *EFFECT OF CORROSIVE ENVIRONMENT ON OFFSHORE DRILLING PLATFORMS*

**14:30–15:30 Session B Applied organic, inorganic and supramolecular chemistry (AOISC)**

2<sup>nd</sup> Floor – 2.2 Room/ Microsoft Teams/ SICHEM 2024 Channel B

**Chairpersons: Assoc. Prof. Gabriela ISOPENCU, Assoc. Prof. Alexandra MOCANU**

14:30–14:40 Oral Presentation (SB OP09)

**Laura NISTOR, Ramona-Elena TATARU-FARMUS, Maria HARJA,** *CURRENT RESEARCHES FOR ORGANIC COMPOUNDS REMOVAL USING  $BiFeO_3$*

14:40–14:50 Oral Presentation (SB OP10)

**Diana HANGANU, Lidia FAVIER, Maria HARJA,** *METHODS FOR ANTIBIOTICS REMOVAL: A COMPREHENSIVE ANALYSIS*

14:50–15:00 Oral Presentation (SB OP11)

**Mihaela HELSTERN, Timur CHIȘ, Laurențiu PRODEA,** *THE EFFECT OF POLIMERS TO OIL STORAGE ROCKS*

15:00–15:10 Oral Presentation (SB OP06) - online

**Maha BEN ARFA, Alina-Violeta URSU, Anis ATTOUR, Fabrice AUDONNET, Hamza ELFIL, Christophe VIAL,** *SIMULTANEOUS REMOVAL OF NITRATE AND SULFATE FROM GROUNDWATER BY BATCH ELECTROCOAGULATION PROCESS USING IRON ELECTRODES*

15:10–15:20 Oral Presentation (SB OP07) - online

**Xiaoyang HOU, Gwendoline CHRISTOPHE, Fabrice AUDONNET, Cédric DELATTRE, Philippe MICHAUD, Pascal DUBESSAY, Guillaume PIERRE,** *ADVANCING IMMOBILIZED ENZYME REACTOR SYSTEMS FOR VERSITILE EXPLOITATION OF FUNCTIONAL POLYSACCHARIDES AND ACTIVE OLIGOSACCHARIDES*

15:20–15:30 Oral Presentation (SB OP08) - online

**Elise MARTIN, Pascal DUBESSAY, Fabrice AUDONNET, Philippe MICHAUD,** *DEVELOPMENT OF AN ELECTROCHEMICAL METHOD FOR THE MEASUREMENT OF OXIDASES ACTIVITY: APPLICATION TO LACCASES*

**14:30–16:00 Session C Biomaterials and composites in chemical and biochemical applications (BCCBA)**

2<sup>nd</sup> Floor – 2.3 Room/ Microsoft Teams/ SICHEM 2024 Channel C

**Chairpersons: Prof. Alina BADANOIU, Prof. Anca COJOCARU**

14:30–14:50 Keynote Lecture (SC KN02)

**Rodica-Mariana ION,** *ENVIRONMENTAL IMPACT ON THE BUILDING MATERIALS OF ARCHAEOLOGICAL SITES*

14:50–15:00 **Oral Presentation (SC OP01)**

**Gianluca VISCUSI, Giuliana GORRAS, HEMP FIBERS MODIFIED WITH GRAPHITE OXIDE AS GREEN AND EFFICIENT SOLUTION FOR WATER REMEDIATION**

15:00–15:10 **Oral Presentation (SC OP02)**

**Anca MAZĂRE, NANOTOPOGRAPHY CONTROL VIA ELECTROCHEMICAL ANODIZATION OF TITANIUM – ADVANCING BIOMEDICAL APPLICATIONS AND GREEN CHEMISTRY**

15:10–15:20 **Oral Presentation (SC OP03)**

**Ruxandra Gabriela SOARE, Alexandra MOCANU, Denisa Eglantina DUȚĂ, Gabriela Daniela CRIVEANU-STAMATIE, Raul Augustin MITRAN, Alexandru ȘTEFAN, Gabriela ISOPENCU, FORMULATION AND CHARACTERIZATION OF BACTERIAL CELLULOSE-BASED ICECREAM**

15:20–15:30 **Oral Presentation (SC OP04)**

**Radu MIREA, Laurențiu CEATRĂ, Tunde PORBATH, PRELIMINARY EXPERIMENTAL RESEARCH TO OBTAIN CERAMIC MATRIX COMPOSITES BY USING CHEMICAL VAPOR REACTION TO BE USED AS GAS TURBINE BLADES**

15:30–15:40 **Oral Presentation (SC OP05)**

**Roxana JIDVEIAN, Tănase DOBRE, Doinița R. CIOROIU TÎRPAN, Cristina I. GOGOĂȘĂ, Oana C. PÂRVULESCU, Cristian E. RĂDUCANU, BIODEGRADABLE BIOPOLYMER FOR SUPPORTED BIODEGRADABLE CATALYST IN TRANSESTERIFICATION TO ALKYL ESTERS**

15:40–15:50 **Oral Presentation (SC OP06)**

**Vasile-Adrian SURDU, Mariana-Andreea MARINICĂ, Roxana-Elena PĂTRU, Ovidiu OPREA, Adrian Ionuț NICOARĂ, Bogdan Ștefan VASILE, Roxana Doina TRUȘCĂ, Adelina Carmen IANCULESCU, HIGH ENTROPY PEROVSKITE OXIDES: EXPLORING A PARADIGM FOR PROMISING MATERIALS**

15:50–16:00 **Oral Presentation (SC OP07)**

**Andreea-Luiza MÎRȚ, Ludmila MOTELICĂ, Anita-Laura CHIRIAC, Gabriel VASILIEVICI, Denisa FICAI, Anton FICAI, SYNTHESIS AND FUNCTIONALIZATION OF BIOACTIVE GLASS AND MCM-41 FOR BIOMEDICAL ENGINEERINGS**

**14:30–16:10 Session D Green applied chemistry and agro-resources valorization (GACARV)**

3<sup>rd</sup> Floor – 3.2 Room/ Microsoft Teams/ SICHEM 2024 Channel D

**Chairpersons: Prof. Vasile LAVRIC, Prof. Oana PÂRVULESCU**

14:30–14:40 **Oral Presentation (SD OP03)**

**Andreea MANOLACHE, Ana-Maria BREZOIU, Ionuț BANU, GLYCEROL CONVERSION TO LACTIC ACID: PROCESS ANALYSIS**

14:40–14:50 **Oral Presentation (SD OP05)**

**Claudia Ana Maria PATRICHI, Doinița-Roxana CIOROIU TÎRPAN, Cristian E. RĂDUCANU, Tănase DOBRE, OBTAINING CELLULOSE MEMBRANES EXTRACTED FROM ULVA LACTUCA ALGAE**

14:50–15:00 **Oral Presentation (SD OP07)**

**Olga V. SĂPUNARU, Ancaelena E. STERPU, Jack NASR, Cristina DUȘESCU-VASILE, Claudia I. KONCSAG, ENVIRONMENTALLY FRIENDLY LUBRICATING GREASES FROM FOOD INDUSTRY WASTE OILS**

15:00–15:10 **Oral Presentation (SD OP10)**

**Eliza-Gabriela MIHĂILĂ (BRETTFELD), Tănase DOBRE, Daria Gabriela POPA, Diana CONSTANTINESCU-ARUXANDEI, Florin OANCEA, ENHANCED CARBON CAPTURE AND BIOFIXATION USING FUNCTIONALIZED DEEP EUTECTIC SOLVENT AND DESMODESMUS COMMUNIS MICROALGAE**

15:10–15:20 **Oral Presentation (SD OP11)**

**Elisabeta-Irina GEANĂ, Corina Teodora CIUCURE, Claudia ȘANDRU, Radu TAMAIAAN, EFFECT OF MICROWAVE-ASSISTED ORGANOSOLV PRETREATMENT ON FRUIT BY-PRODUCTS AS SUBSTRATES FOR FERMENTATION PROCESSES**

15:20–15:30 Oral Presentation (SD OP12)

**Daniela FLOREA, Florina RĂDULESCU, Vasile LAVRIC, Dan-Lucian VASILIU, Andra BUCȘE, Albert SCRIECIU, ASSESSMENT OF HEAVY METALS CONTAMINATION OF SURFACE SEDIMENTS OF DANUBE RIVER**

15:30–15:40 Oral Presentation (SD OP13)

**Andra BUCȘE, Dan VASILIU, Oana Cristina PÂRVULESCU, Daniela FLOREA, Naliana LUPAȘCU, Albert SCRIECIU, Teodor MUȘAT, Florina RĂDULESCU, TOTAL MERCURY AND METHYLMERCURY CONCENTRATIONS IN MOLLUSKS COLLECTED FROM THE NW BLACK SEA SHELF (ROMANIA)**

15:40–15:50 Oral Presentation (SD OP08) - online

**Bochra SOUMATI, Adhya-eddine HAMITOUCHE, Christophe VIAL, Alina-Violeta URSU, Pascal DUBESSAY, Christine GARDARIN, David DUCHEZ, Abd-Elmouneïm BELHADJ, Philippe MICHAUD, REMOVAL OF DICLOFENAC FROM WASTEWATER USING A SUSTAINABLE APPROACH BASED ON GREEN MICROALGAE COELASTRELLA THERMOPHILA**

15:50–16:00 Oral Presentation (SD OP09) - online

**Ibtissam SABIR, Halima RCHID, Alina-Violeta URSU, Marta D'ARIO, Christinne GARDARIN, Philippe MICHAUD, Guillaume PIERRE, Cédric DELATTRE, Soumia ZAIM, Yann FASCHINETTI, Pierre FONTANILLE, Benoit CHEZEAU, Rachid NMILA, Reddad EL MOZNINE, Christophe VIAL, VALORIZATION OF CYSTOSEIRA SP. BROWN SEAWEED FOR THE PRODUCTION OF BIOCHEMICALS AND ENERGY**

16:00–16:10 Oral Presentation (SD OP06) - online

**Ana-Maria DRĂGHICI-POPA, Oana Cristina PÂRVULESCU, Aurelian Cristian BOSCORNEA, Raluca STAN, Ana-Maria BREZOIU, Ștefan Theodor TOMAS, SUPERIOR VALORIZATION OF FORGOTTEN BERRIES - PRUNUS SPINOSA L. (BLACKTHORN)**

16:10–16:30 Coffee break (2<sup>nd</sup> Floor)

14:00–16:30 Poster Sessions A, C and D (2<sup>nd</sup> Floor)

16:30–17:00 AWARDS and CLOSING CEREMONY (Microsoft Teams – General Channel)

CONFERENCE PROGRAMME  
POSTER PRESENTATIONS

April 11 – 12

<b>14:00–16:30 Poster Session (2<sup>nd</sup> Floor)</b>	
<b>Session A Chemical and biochemical engineering</b>	
SA P01	<b>Georgeta O. POPA, Cristian CONSTANTIN, Simona M. CĂLINESCU, STATISTICAL ANALYSIS OF URBAN AIR QUALITY IN PLOIESTI, ROMANIA DURING AUTUMN</b>
SA P02	<b>Gheorghe MARIA, APPLICATION OF (BIO)CHEMICAL ENGINEERING CONCEPTS AND TOOLS TO MODEL GENETIC REGULATORY CIRCUITS (GRCS), AND SOME ESSENTIAL CCM PATHWAYS IN LIVING CELLS FOR THE IN-SILICO RE-DESIGN SOME GRCS TO OBTAIN GMOS</b>
SA P03	<b>Joseph M. DURU, Tănase DOBRE, Oana C. PÂRVULESCU, Tiberiu DANCIU, Cristian E. RĂDUCANU, STOCHASTIC MODELING OF COPPER CEMENTATION IN SYSTEM WITH LIQUID FLOW BY INTENSE PERCOLATION</b>
SA P04	<b>Iuliana BÎRGĂUANU, Silvia CURTEANU, Cătălin LISA, NEURAL NETWORK MODELLING OF THERMODYNAMIC EXCESS PROPERTIES</b>
SA P05	<b>Marian I. FRÎNCU, Sorin A. DORNEANU, Petru ÎLEA, PROCESS OPTIMIZATION FOR BASE METALS RECOVERY FROM WASTE PRINTED CIRCUIT BOARDS USING THE ELECTROCHEMICAL REGENERABLE KBR/HBR/BR<sub>2</sub> SYSTEM</b>
SA P06	<b>Aila L. GEAMBULAT, Claudia I. KONCSAG, Tănase DOBRE, PHENOL ADSORPTION STUDY ONTO TWO TYPES OF VIRGIN MICROPLASTICS IN FIXED AND FLUIDIZED-BED COLUMNS</b>
SA P07	<b>Ana-Maria ROȘU, Vasilica-Alisa ARUȘ, Nicoleta PLATON, Ana-Maria GEORGESCU, Gabriela MUNTIANU, Ileana Denisa NISTOR, Oana-Cristina PÂRVULESCU, EXTRACTION OF BIOACTIVE COMPOUNDS FROM WILD GARLIC (ALLIUM URSINUM L.)</b>
SA P08	<b>Eugenia T. IACOB TUDOSE, Marius S. SECULA, METHYLENE BLUE ADSORPTION IN AN AQUASORB L27 ROTATING BED SYSTEM</b>
SA P09	<b>Cristina-Gabriela GRIGORAȘ, Andrei-Ionuț SIMION, Lidia FAVIER, DEVELOPMENT OF A NOVEL TWO-COMPONENTS MATERIAL AND ITS APPLICATION AS EFFICIENT DYES ADSORBENT</b>
SA P10	<b>Mădălina DRUG, Georgian Valentin FLOREA, Andrei MIHOK, Oana Cristina PÂRVULESCU, Cristian RĂDUCANU, Tănase DOBRE, THIN-LAYER CONVECTIVE DRYING OF CHICKEN BREAST FILLET: EXPERIMENTAL AND MODELLING</b>
SA P11	<b>Adriana-Mariana ASOLTANEI, Eugenia Teodora IACOB - TUDOSE, Marius Sebastian SECULA, Marcel POPA, Ion MAMALIGA, EFFECTIVE DIFFUSION COEFFICIENTS IN POROUS COMPOSITE MATERIALS</b>
SA P12	<b>Sabina. A. FIRONDA, Adelina-Ionela MATEI, Anca Elena SLOBOZEANU, Lidia LICU, Marian BURADA, Radu Robert PITICESCU, Sorin Mircea AXINTE, Olivier JAY, RECOVERY OF Nd FROM HDD MAGNETS</b>
SA P13	<b>Alla ZEINAB, Sulaiman KHASRO, Hamza DZAIY, Timur CHIȘ, Laurențiu PRODEA, THE EFFECT OF ACID TO NATURAL GAS STORAGE ROCKS</b>
SA P14	<b>Doru BÂRSAN, Timur CHIȘ, Laurențiu PRODEA, WATER SEPARATION IN NATURAL GAS PIPELINES</b>
SA P15	<b>Iuliana CRISTEA, Timur CHIȘ, Laurențiu PRODEA, USE OF HYDROGEN MIXED WITH NATURAL GAS IN INDUSTRIAL AND LOCAL NETWORKS</b>
SA P16	<b>Ionuț LUNGU, Timur CHIȘ, Dumitru CHISĂLIȚĂ, CHEMICAL INTERACTION OF NATURAL GAS TO SALINE CAVES STORAGES</b>
SA P17	<b>Reem Sabah MOHAMMED, Timur CHIȘ, Dumitru CHISĂLIȚĂ, LABORATORY ANALYSIS OF OILFIELD PRODUCED WATER EXTRACTION FROM EMULSIONS, PETROLEUM ENGINEERING ENHANCED OIL RECOVERY</b>
SA P18	<b>Ioan Alexandru TUTUN, Claudia I. KONCSAG, Tănase DOBRE, ASPHALTENES DEPOSITION MODELING IN CRUDE OIL, A COMPARISON TO CHOLESTEROL DEPOSITION MODEL IN ARTERIES</b>
SA P19	<b>Alexandra-Florentina N. VLAICU, Oana C. PÂRVULESCU, Tănase DOBRE, PREDICTION OF THE DYNAMICS OF UREA AND CREATININE CONCENTRATIONS IN RENAL DIALYSIS PROCESS</b>
SA P20	<b>Cristina I. GOGOAȘĂ, Oana C. PÂRVULESCU, Roxana JIDVEIAN, Tănase DOBRE, Doinița R. CIOROIU TÎRPAN, Cristian E. RĂDUCANU, THE APPLICATION OF RHEOVISCOMETRY IN THE STUDY OF SUBSTRATES HYDROLYSIS WITH SPECIFIC DRUGS</b>

SA P21	<b>Ioan Alexandru TUTUN, Claudia I. KONCSAG, Tănase DOBRE, ASPHALTENES</b> <i>DEPOSITION MODELING IN CRUDE OIL RESERVOIRS BY COLLOIDAL AGGLOMERATION</i>
SA P22	<b>Grația POPESCU, Oana Cristina PÂRVULESCU, Tănase DOBRE, Mihaela Emanuela CRĂCIUN,</b> <i>MODELLING OF MASS AND HEAT TRANSFER PROCESSES OCCURRING DURING THE STORAGE OF DRIED LEAVES OF ALLIUM URSINUM</i>
SA P23	<b>Thaaer Hamed ABED, Daniela Simina ȘTEFAN, Magdalena BOȘOMOIU, Mircea ȘTEFAN,</b> <i>REMOVAL OF AMMONIUM COMPOUNDS FROM NATURAL SOURCES OF WATER</i>
<b>14:00–16:30 Poster Session (2<sup>nd</sup> Floor)</b>	
<b>Session C Biomaterials and composites in chemical and biochemical applications</b>	
SC P01	<b>Gabriela-Florentina IONIȚĂ, Cristina BUSUIOC,</b> <i>MANUFACTURING ROUTES OF POROUS STRUCTURES BASED ON MERWINITE WITH APPLICABILITY IN REGENERATIVE TISSUE ENGINEERING</i>
SC P02	<b>Sorin-Viorel DOLANA, Anamaria ZAHARIA, Traian ROTARIU, Tanța-Verona IORDACHE, Andrei SÂRBU, Iulia Elena NEBLEA, Andreea MIRON, Marinela DUMITRU, Anton FICAI,</b> <i>ENVIRONMENTALLY RESPONSIBLE POLYURETHANE FORMULATIONS AS ALTERNATIVES TO HTPB BINDER USED IN COMPOSITE PROPELLANTS</i>
SC P03	<b>Marinela Victoria DUMITRU, Anamaria ZAHARIA, Octavian PAVEL, Ana Lorena NEAGU, Iulia-Elena NEBLEA, Tanța-Verona IORDACHE, Andreea MIRON, Anita Laura CHIRIAC, Andrei SÂRBU, Rodica ZAVOIANU,</b> <i>INTERPENETRATING POLYMER NETWORK HYDROGELS CONTAINING LDH, FOR THE CONTROLLED RELEASE OF INULIN</i>
SC P04	<b>Hussein Fawzi HUSSEIN, Farqad Rasheed SAEED, Jihad Ghanim ABDULQADER, Shaalan Bdaiwi AHMED,</b> <i>EFFECT OF SURFACE ROUGHNESS OF Co-Cr ALLOY MODIFIED BY HYDROXYAPATITE COATING</i>
SC P05	<b>Ramona-Daniela PĂVĂLOIU and Fawzia SHA'AT,</b> <i>DESIGN OF NANOVEHICLES LOADED WITH SENOMORPHIC DRUGS FOR TARGETTING SENESCENT CELLS</i>
SC P06	<b>Maria MARINESCU, Alexandru-Cosmin BĂLOI, Melisa-Georgiana GREU, Christina-Marie ZĂLARU, Anamaria HANGANU,</b> <i>SYNTHESIS, CHARACTERIZATION AND DFT STUDIES OF SOME PYRIMIDINE COMPOUNDS WITH THERAPEUTIC APPLICATIONS</i>
SC P07	<b>Iulia-Ștefania VOICU, Angela-Georgiana MAREȘ, Ioana-Maria NICOLA, Ioana MAIOR,</b> <i>ELECTRODEPOSITION OF AMORPHOUS NICKEL / GOLD LAYER(S) AND ALLOYS ON A COPPER SUBSTRATE FOR ELECTRICAL CONNECTORS</i>
SC P08	<b>Anca COJOCARU, Alexandru MANDACHE, Ioana Alina CIOBOTARU, Dănuț-Ionel VĂIREANU,</b> <i>EVALUATION AND MODELING OF A Li-ION BATTERY AT VARIOUS DISCHARGE RATES</i>
SC P09	<b>Christina ZALARU, Mihnea SANGEORZAN, Alexandru STRACA, Maria MARINESCU,</b> <i>SYNTHESIS AND CHARACTERIZATION OF NEW PYRAZOLE COMPOUNDS WITH ANTIBACTERIAL ACTIVITY</i>
SC P10	<b>Maria Eliza PUȘCAȘU, Cristina BUSUIOC, Adrian-Ionuț NICOARA, Ștefania STOLERIU, Sorin Ion JINGA,</b> <i>MERWINITE BASED BIOCERAMIC SCAFFOLDS PROCESSED VIA ROBOCASTING</i>
SC P11	<b>Ionela - Cristina PETCU, Oana BRÂNCOVEANU, Cosmin ROMANITAN, Liana ANICĂI, Cristina BUSUIOC, Sabrina-Patricia STATE,</b> <i>ELECTROCHEMICAL SYNTHESIS OF TiO<sub>2</sub> AND Ag-TiO<sub>2</sub> NANOPARTICLES USING NOVEL DEEP EUTECTIC SOLVENT FORMULATIONS</i>
<b>14:00–16:30 Poster Session (2<sup>nd</sup> Floor)</b>	
<b>Session D Green applied chemistry and agro-resources valorization</b>	
SD P01	<b>Roxana Mădălina STOICA, Mișu MOSCOVICI, Cristina BĂZDOACĂ, Elena Simina LAKATOS, Lucian Ionel CIOCA,</b> <i>STUDIES ON BIOSURFACTANT PRODUCTION BY BACILLUS MYCOIDES STRAIN</i>
SD P02	<b>Delia N. PISCOIU, Simona RADA, Horațiu VERMEȘAN,</b> <i>NEW ELECTRODES PREPARED THROUGH THE RECYCLING OF ANODIC PLATE OF THE SPENT LEAD - ACID BATTERIES</i>
SD P03	<b>Roxana RADA, Daniela Lucia MANEA, Ramona CHELCEA, Dumitrița MOLDOVAN, Radu FECHETE, Simona RADA, Eugen CULEA,</b> <i>REUTILIZATION OF CONSTRUCTION AND DEMOLITION WASTE AS COMPOSITES IN CEMENT MATERIALS</i>
SD P04	<b>Vlad RADA, Adriana POPA, Sergiu MACAVEL, Simona RADA,</b> <i>THE DEVELOPMENT OF NEW BLACK SOLAR ABSORBERS BASED ON IRON – STABILIZED ZIRCONIA CERAMICS</i>
SD P05	<b>Larisa F. MIHĂILA, Simona RADA, Horațiu VERMEȘAN,</b> <i>RECOVERY OF ELECTRODES FROM USED CAR BATTERIES BY RECYCLING AND DOPING THEM WITH METAL OXIDES</i>
SD P06	<b>Dana Maria MIU, Maria Monica PETRESCU, Maria SPIRIDON, Mihaela Carmen EREMIA,</b> <i>OBTAINING MICROBIAL INULINASE BY ASPERGILLUS SP. FOR THE PREVENTION OF METABOLIC AND NUTRITIONAL DISEASES</i>

SD P07	<b>Florin BOGOS, Albert SCRIECIU, Iulian Pojar VINTILĂ, STUDY OF HEAVY MINERALS CONCENTRATIONS IN SEDIMENTS FROM SEVERAL SECTORS OF THE LOWER DANUBE RIVER</b>
SD P08	<b>Doinița-Roxana CIOROIU TÎRPAN, Claudia Ana Maria PATRICHI, Cristian E. RĂDUCANU, Tănase DOBRE, CLADOPHORA VAGABUNDA ALGAE AS A SUSTAINABLE SOURCE OF NEW CELLULOSE NANOFIBERS</b>
SD P09	<b>Diana EGRI, Oana Cristina PĂRVULESCU, Violeta Alexandra ION, Ailin MOLOȘAG, Aurora DOBRIN, Andrei MOȚ, Cristina ORBECI, Tănase DOBRE, Cristian Eugen RĂDUCANU, Alexandra MOCANU, Anne-Kristin LØES, Joshua CABELL, Athanasios SALIFOGLOU, Carlos Octavio LETELIER-GORDO, OPTIMIZING THE CONDITIONS OF THE FERMENTATION PROCESS OF ROCKWEED-BASED COMPOST</b>
SD P10	<b>Adina Ionuța GAVRILĂ, Ioana POPA, Cristina NEGREA, Ioan CĂLINESCU, Adrian TRIFAN, Erdin FEIZULA, HYBRID GREEN EXTRACTION OF PHYTOEXTRACTS FROM HEDERA HELIX L</b>
SD P11	<b>Vasile STAIUCU, Ciprian CHISEGA, Adina GAVRILĂ, Cristina LUNTRARU, Mihaela NEAGU, Justinian TOMESCU, Ioan CĂLINESCU, UTILIZATION OF PLANT WASTE AND BIOMASS FROM THE MEDICINAL PLANT USING MODERN MICROWAVE TREATMENT TECHNIQUE</b>
SD P12	<b>Gabriela TOADER, Aurel DIACON, Mioara ALEXANDRU, Florina Lucica ZORILĂ, Alexandra MOCANU, Ana Mihaela GAVRILĂ, Bogdan TRICĂ, Edina RUSEN, PEELABLE HYDROGELS INCORPORATING SILVER-DECORATED CARBON NANOFIBERS FOR IMMEDIATE BIOLOGICAL DECONTAMINATION</b>
SD P13	<b>Andreea-Isabela LAZĂR, Alexa-Maria CROITORU, Ludmila MOTELICĂ, Ovidiu OPREA, Roxana-Doina TRUȘCĂ, Denisa FICAI, Danut-Ionel VAIREANU, Anton FICAI, SYNTHESIS AND CHARACTERIZATION OF ALGINATE/CHITOSAN-GRAPHENE OXIDE MATRICES IN NEUROGENERATION</b>

## SPECIAL THANKS TO OUR SPONSORS

