

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



The International Symposium

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

Splaiul Independenței 202, sect. 6, Bucharest



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

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



MINISTERUL EDUCAȚIEI ȘI CERCETĂRII

Partners:



Romanian Chemical Society



**Foundation "C. D.
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Event held under the patronage of
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PHANOS

PUBLIC REPORT

1. About the Event

Between **October 15–17, 2025**, the **National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM Bucharest** organized the **21st edition of the International Symposium “Priorities of Chemistry for a Sustainable Development” (PRIOCHEM XXI)**. This annual symposium has become one of the flagship events of the Romanian scientific community in the field of chemistry, biotechnology, materials science, and environmental protection.

The 2025 edition was of special significance, as it coincided with the **75th anniversary of ICECHIM’s foundation**, celebrating more than seven decades of continuous contribution to Romanian and European chemical research.

The event was held under the **auspices of the National Authority for Research (Ministry of Education and Research)**, with the support of the **Romanian Chemical Society**, the **C.D. Nenitescu Foundation**, and the **Association for Integrative Education and Development for the Future**, under the patronage of the **Academy of Scientists of Romania**.

Private partners also contributed to the event’s success: **Metrohm Romania**, **MDPI Romania**, **New Protocol Group**, **NANOTEAM**, **Phanos (sponsors)**, and **AMEX (exhibitor)**, supporting both scientific and outreach activities.

2. International Participation

PRIOCHEM XXI brought together **228 participants** from Romania and abroad, representing one of the highest participation levels in recent years. Among them were **86 international researchers from 19 countries**, including Italy, France, Germany, Poland, Brazil, Turkey, Armenia, Egypt, Jordan, Saudi Arabia, Kazakhstan, Slovenia, Greece, Croatia, Nigeria, India, Indonesia, Malaysia, and Azerbaijan.

Institutional representation included:

- **22 universities and 3 research institutes** from abroad;
- **6 national R&D institutes** from Romania;
- **7 Romanian universities**;

- **8 industrial partners** and **2 national clusters** (RoHealth and Social Innovation Solutions);
- **2 national authorities** (National Authority for Research; State Office for Inventions and Trademarks);
- **International innovators' associations** (Indian Innovators Association, INNOPA – Indonesia, INOVA doo – Croatia);
- **Leading scientific publishers** (Frontiers and MDPI);
- **The Romanian Chemical Society** and the **National Academy of Sciences of Azerbaijan**.

This geographical and institutional diversity demonstrates the **international prestige of PRIOCHEM** and its role as a **platform for collaboration and knowledge exchange** across continents.

3. Scientific Structure and Programme

The symposium was organized in **two main scientific sections**:

1. *Multifunctional materials, nanocomposites, innovative technologies and cultural heritage conservation*
2. *Bioresources, biotechnologies and biorefining*

The three-day programme included:

- **10 plenary lectures** by distinguished international scientists:
 - Prof. **Fabiana Arduini** (Italy)
 - Prof. **Francois-Xavier Perrin** (France)
 - Dr. **Martin Kilo** (Germany)
 - Prof. **Anton Ficai** (Romania)
 - Dr. **Ridha Djellabi** (Saudi Arabia)
 - Dr. **Alvina Avagyan** (Armenia)
 - Dr. **Ahmad Ali H. Omari** (Jordan)
 - Dr. **Mahmoud H. Abu Elella** (Egypt)
 - Dr. **Gianluca Viscusi** (Italy)
 - Dr. **Michal Ceglowski** (Poland)

- **4 special presentations**, including two invited lectures (Mădălina-Elena Argăseală – RO Health; Andrei Sârbu – Romanian Chemical Society) and two *author training sessions* (Emily Young – Frontiers; Iustina Boștan – MDPI Romania);
- **19 oral communications**;
- **60 posters**, some being presented in the interactive *pitching* session “*My Poster in 100 Seconds!*”;
- **7 satellite events** and **multiple bilateral meetings**.

The presented works reflected current research directions in **sustainable chemistry, smart materials, circular biotechnologies, renewable resources, and heritage protection**, connecting science, technology, and society in an integrated framework.

4. Satellite Events and Professional Development

On **October 14th**, ICECHIM hosted a series of **satellite workshops** designed to foster collaboration between researchers, companies, and innovation networks.

Among these, the highlight was the workshop “**Partnerships, Synergies and Instruments for Innovation and Development**”, co-organized with the **Bucharest–Ilfov Regional Development Agency (ADR BI)**, **Măgurele Science Park**, and **Inpulse Partners** (members of the **Enterprise Europe Network**). The workshop provided insights into European funding opportunities (Horizon Europe, EIC, EIT), matchmaking sessions, and best practices in technology transfer.

The “**Tech Talks – Meet the Mentors!**” session, now at its second edition, invited young researchers to engage with experienced innovators — **Petru Epure, Radu Porum, Justinian Tomescu**, and **Manuel Drugulescu** — to discuss the theme “**Technology Transfer: Challenges and Opportunities**.” This initiative promotes **career development, entrepreneurship, and leadership skills** among early-career scientists.

5. Awards and Scientific Recognition

PRIOCHEM XXI featured an extended **awards programme** celebrating research excellence and supporting young scientists.

➤ **Romanian Chemical Society Awards**

- **Andreea-Luiza Mîrț** (ICECHIM / National University of Science and Technology Politehnica Bucharest / University of Erlangen-Nürnberg, Germany)

- **Alin Gabriel Gheorghe** (National University of Science and Technology Politehnica Bucharest)
- **Special PRIOCHEM 2025 Award**
- **Sherif Ashraf Fahmy** (Philipps University of Marburg, Germany)
- **PRIOCHEM Ambassador Award**
- **Asif Abbas Syed** (Nazarbayev Intellectual School of Science and Math, Atyrau, Kazakhstan)
- **Future Science Awards**
- **Ramina Doszhan and Akbota Yersultan** (Nazarbayev Intellectual School of Science and Math, Atyrau, Kazakhstan)
- **Grigore Pșenovschi** (ICECHIM / National University of Science and Technology Politehnica Bucharest)
- **PRIOCHEM 2025 Awards**
- **Olena Artiushenko** (Pontifical Catholic University of Rio de Janeiro, Brazil)
- **Laura Mihaela Ștefan** (National Institute of Research and Development for Biological Sciences, Bucharest)
- **Violeta-Carolina Niculescu** (National Institute for Cryogenic and Isotopic Technologies – ICSI Râmnicu Vâlcea)
- **Aleksandra Lusina** (Adam Mickiewicz University, Poland)
- **Livia-Teodora Ciobanu** (ICECHIM Bucharest)
- **Cătălina Ștefan** (ICECHIM Bucharest)
- **Alexandra Manea** (Hofigal Export-Import S.A.)
- **Cristina Firincă** (ICECHIM Bucharest)
- **Nurym Nurtas** (Nazarbayev Intellectual School of Science and Math, Atyrau, Kazakhstan)
- **Sevinj Osmanova and Aytakin Asgarova** (Baku State University, Azerbaijan)

The diversity of awardees, representing different countries and disciplines, reflects PRIOCHEM's **commitment to inclusivity, excellence, and international cooperation.**

6. Publication and Visibility

Papers presented during PRIOCHEM XXI are scheduled for publication in leading international journals indexed in **Clarivate Analytics** and **Scopus**, including:

- *Polymers* (Impact Factor 4.9, Q1)
- *Frontiers in Materials* (Impact Factor 2.9, Q2)
- *Farmacia* (Impact Factor 1.3, Q3–Q4)
- *EMERG – Energy. Environment. Efficiency. Resources. Globalization* (Scopus-indexed)
- *PRIOCHEM XXI – Book of Abstracts* (Online edition, ISSN 2601 – 419X and ISSN-L 2601 – 4181).

The collaboration with **Frontiers** and **MDPI** provides open-access publication opportunities, reinforcing ICECHIM's commitment to **open science and transparent dissemination of research**.

Media coverage was ensured through **Radio România Cultural** and the institute's digital channels (official website, Facebook, LinkedIn, Instagram, YouTube).

7. Impact and Conclusions

PRIOCHEM XXI confirmed ICECHIM's status as a **leading research institution and international collaboration hub** in the field of sustainable chemistry and applied materials science.

The symposium:

- Enhanced the **international visibility and reputation of ICECHIM**;
- Strengthened cooperation between **academia, research institutes, and industry**;
- Created **new opportunities for project consortia** under Horizon Europe, COST, and EUREKA;
- Promoted **young researchers** through dedicated sessions and awards;
- Highlighted ICECHIM's role as a **connector between science, innovation, and society**.

Through professionalism, scientific excellence, and international participation, PRIOCHEM XXI has become a model of how a national institute can **build global scientific bridges**, while contributing to Romania's integration in the **European Research Area (ERA)**.



Associated events

Tuesday, 14.10.2025

No.	Starting time	Moderator	Room	Title
W-1	10 ⁰⁰	-	Room 1 (3 rd floor)	Parteneriate, Sinergii și Instrumente pentru Inovare și Dezvoltare!
W-2	14 ⁰⁰	Nicolae VARACHIU	Room 1 (3 rd floor)	Research and Innovation - societal impact
W-3	08 ⁰⁰	Radu Claudiu FIERĂSCU	Room 3 (1 st floor)	Abordare integrată pentru protecția mediului – AquaMat
W-4	09 ⁰⁰	Radu Claudiu FIERASCU	Room 1 (3 rd floor)	Innovative approach for the protection of medicinal and aromatic plant crops – between circular bioeconomy and nanotechnology
W-5	08 ⁰⁰	Irina FIERASCU	Room 1 (3 rd floor)	Transdisciplinary approach for the modern formulation of construction materials, a paradigm shift in the protection of immovable cultural heritage
W-6	09 ⁰⁰	Irina Elena CHICAN	Room 1b (3 rd floor)	Advanced ecological solutions to increase the food safety of vegetables and fruits, from producer to consumer
W-7	09 ⁰⁰	Ioana Silvia HOSU	Room 3 (1 st floor)	Next generation method for studying redox signalling in plants and screening biostimulant potential formulations applied to plants: bimodal sensors.

Scientific Committee (in alphabetical order)

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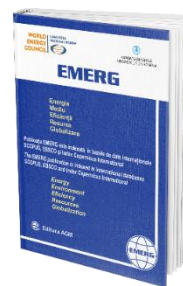
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