

## EEM2025 – SCIENCE THAT CONNECTS THE WORLD

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**Abstract:** The 9<sup>th</sup> International Congress “Engineering, Environment and Materials in Process Industry” – EEM2025 was organized by the Faculty of Technology Zvornik, University of East Sarajevo. With the aim of creating new initiatives and utilizing emerging technologies for sustainable applications, this event focused on a thorough and multidisciplinary approach to contemporary concerns pertaining to environmental protection, sustainable development, and process industry. By giving an overview of the most recent findings and trends in the field and providing a forum for idea sharing, the aim was to assist researchers, scientists, and academia in exploring new avenues for research, development, and teaching.

**Keywords:** engineering; environment; materials; process industry; EEM2025

### 1. Introduction

The Faculty of Technology Zvornik, University of East Sarajevo, organized the 9<sup>th</sup> International Congress “Engineering, Environment and Materials in Process Industry” – EEM2025 at the Ethno-Village Stanišić in Bijeljina, from April 2<sup>nd</sup> to April 4<sup>th</sup>, 2025. The EEM conference is the first category international scientific congress in the Republic of Srpska and Serbia (Figure 1). For the past sixteen years, the congress has gathered over 1200 researchers and professionals and more than 1500 submissions from over sixty countries

Following in the footsteps of the previous eight events, EEM2025 provided a platform for bringing together academia, researchers, business entrepreneurs, practitioners, and policy makers allowing them to share their recent theoretical knowledge, research findings and experiences in dealing with sustainable solutions, and innovative ideas in the area of chemical engineering and technology. As such, EEM2025 featured presentations by internationally renowned speakers focused on cutting-edge session topics.



Figure 1. The EEM2025 – opening ceremony.

## 2. Congress Program

The 9<sup>th</sup> International Congress EEM2025 gathered eminent researchers and professionals from over 25 countries. A total of about 100 papers were submitted on the following topics:

- Chemical and Electrochemical Engineering,
- Food Engineering and Biotechnology,
- Environmental Engineering,
- Materials and Material Characterization,
- Nanotechnology,
- Inorganic Chemistry and Technology,
- Organic Chemistry and Technology, Polymers,
- Plasma Technology,
- Energy Efficiency and Renewable Energy Sources,
- Corrosion and Protection of Materials and Thermal Power Plants,
- Management in the Process Industry.

The congress program was organized through plenary lectures, invited lectures and poster presentations (Figure 2).



Figure 2. Poster presentations.

A total of nine plenary lectures were held:

- Petros Samaras (Greece) - Valorization of biogas digestate through microalgae: a sustainable approach,
- Nuno Gama (Portugal) - Connecting Industry and Academia for a Sustainable Future,
- Alexej Salimon (Russia) - Materials Performance Indices for Engineering Applications: multi-scale structuring and Emerging Hierarchical Materials,
- Monica Magureanu (Romania) - Potential of non-thermal plasma as water cleaning technology,
- Čedomir Beljić (Serbia) - The new underground "green" mines, sustainable solution or utopia,
- Aleksandar Nikoloski (Australia) - The production of lithium from ores, brines, and end-of-life batteries considered from technological-ecological perspectives,

- Srećko Stopić (Germany) - Advances in understanding the use of basic operations in metallurgy for processing of bauxite residues,
- Stevan Armaković (Serbia) - Frontiers in atomistic calculations: advances and applications in materials science,
- Antun Jozinović (Croatia) - Challenges in the production and application of biopolymers as packaging materials.

EEM2025 was held at the Ras hotel, Ethno-Village Stanišić in Bijeljina. The participants had the opportunity to present their work as part of a poster presentation. Poster presentation was organized through a session which included papers grouped around the following topics: Engineering and Technology, Chemistry, Environment, Materials, and Other Areas.

### 3. EEM2023 Organizational Support

EEM2025 was held under the auspices of the Government of Republic of Srpska and the Academy of Sciences and Arts of the Republic of Srpska. The gold sponsors of the event were the City of Zvornik and Zeochem Ltd. Zvornik, with numerous other companies also participating as sponsors – NLB Banka, RioTinto, Astrinexlab, Shimadzu, Association for the International Development of Academic and Scientific Collaboration (AIDASCO), and ZP-komerc. The event was co-organized by the Institute “Dr Josif Pančić”, the Union of Engineers and Technicians of the Republic of Serbia, the Faculty of Technology and Metallurgy in Belgrade, the Institute of Physics – Belgrade, the Faculty of Food Technology Osijek, the Faculty of Technology Novi Sad, and Faculty of Technology from Banja Luka.

This year's event was supported by internationally renowned scientific publishers, such as MDPI, the Association of Chemical Engineers of Serbia, Engineering Society for Corrosion Serbia, the Faculty of Technology Banja Luka, the Faculty of Technology Osijek, and their supporting publications: Engineering Proceedings (an Open Access Journal of MDPI) [1] Materials Protection [2], Croatian Journal of Food Science and Technology [3], Journal of Chemists, Technologists and Environmentalists [4], and Journal of Engineering & Processing Management [5] published by the Faculty of Technology Zvornik. The EEM2025 abstracts were all published in the Book of Abstracts [6].

EEM2025 was also endorsed by the ISEKI-Food Association, which is an independent European non-profit organization aiming to establish cooperation in the food production chain.

## 4. Conclusions

The 9<sup>th</sup> International Congress on Engineering, Environment and Materials in Process Industry” – EEM2025 was successfully concluded, marking a significant step forward in bringing together the members of the scientific community and industry through sharing of ideas and innovative solutions. The great turnout of plenary speakers, authors and co-authors, particularly young researchers, the number of submissions, as well as the broad representation of institutions, all indicate that EEM2025 was a success, and that this congress has established itself as a significant platform for the dissemination of issues and subjects specified by the national strategies and international projects in the field of chemical engineering and technology.

## References

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