

Report on FEZA2023 Conference

The 9th Conference of the Federation of the European Zeolite Associations was held **2 - 6 July 2023 at Portorož-Portorose, Slovenia** (website: <https://feza2023.org/en/>).

Scientific program

The conference featured 5 plenary lectures, 11 keynote lectures, 140 oral presentations, 28 short talks by PhD students and early career researchers, 136 posters and a general talk on open science.

In addition, there were two presentations by FEZA awardees, namely the Crønstedt 2020 awardees presentation and the PhD 2023 awardee presentation.

The plenary lectures:

1. VALENTIN VALCHEV Recent Advances and Future Challenges in Zeolitic Materials
2. BERT WECKHUYSEN Spectroscopy and Microscopy of Zeolites and Metal-Organic Frameworks at Work
3. DAVID SERRANO Opportunities and challenges of zeolite catalysts for the production of sustainable fuels
4. PEGIE COOL Porous Ti-based photocatalysts for environmental applications
5. PAOLO FALCARO Metal-Azolate Frameworks Bio-composites

The keynote lectures:

1. KRUNOSLAV UŽAREVIĆ Green and rational synthesis of porous metal-organic frameworks and their nonconventional forms via mechanochemistry
2. DIEGO GIACOMO GATTA Channels vs. cages: How cavities geometry govern the pressure-mediated crystal-fluid interaction
3. DANA MEDINA On-surface Molecular Frameworks - Synthesis Properties and Function
4. TINA DÜREN Cation meets guests – how cations can be exploited for gas-phase separations in flexible zeolites and metal-organic frameworks
5. KEVIN MAIK JABLONK Big-data in porous materials: science beyond understanding
6. MASSIMO MIGLIORI An overview on recent application of Zeolite Templated Carbon in light gases adsorption and (electro-)catalysis
7. ANDRAŽ KRAJNC NMR as a tool in porous materials investigation
8. BENOÎT LOUIS Are Zeolites Still Key Players for the XXIth Century Energy Roadmap?
9. BARBARA GIL Zeolite nanosheets in solution - precursors of ‘unfeasible’ nanoscale materials
10. MOISÉS PINTO Gasotransmitters delivery vehicles from nanoporous materials
11. JASNA HRENOVIĆ Interactions of bacteria and zeolites

Participants

364 participants from 34 countries were registered for the conference. Most of the participants came from France, Germany, Slovenia, Belgium and Japan.

Of the participants, 54% were academics, 32% students and 14% from industry.

Sponsorship

The conference was supported by **15 sponsors**, among them one diamond (9000 EUR) (Total Energies) and four gold (6000 EUR) (Anton Paar, Micromeritics, Silkem, Tatva Chintan).

FEZA Awards

Cronstedt's Award

The plaque of FEZA's Cronstedt's Award for 2020 was finally delivered to the winners at conference gala dinner, Jiří Čejka, Charles University, Prague, Czech Republic, and Wiesław J. Roth, Jagiellonian University, Krakow, Poland. The sponsor of the Award was Exxon Mobil (money transferred in 2023). **The Cronstedt's Award for 2023 was not awarded.**

FEZA Young Researcher Award

The Young Researcher Award was granted for the first time and the 2023 winner was Eddy Dib from Laboratory for Spectrochemistry and Catalysis, ENSICAEN, Caen, France, for his outstanding contribution to the Science of Microporous and Mesoporous Materials using theoretical and experimental approach of advanced NMR technique. Award was sponsored by Total Energies.

FEZA PhD Award

The award for the best PhD from zeolite science for 2023 was granted to Christian Schroeder, TU Wien, Vienna, Austria. The award included diploma, free registration and oral presentation.

Finances

According to the FEZA rules, **6% of the payed fee income was transferred to FEZA Account in July 2023.**

Preconference FEZA School

Before the conference, a **Preconference school**, was held (**1 - 2 July 2023**) at the conference venue, and was attended by 30 PhD and Postdoctoral students.

At the School there were 6 tutorial lectures from different aspect of zeolite Science:

1. WILHELM SCHWIEGER Zeolite synthesis from the basic understanding to new developments
2. GLORIA BERLIER Dissemination and Communication in the daily work of a researcher
3. ALEKSANDRA DAKOVIĆ Natural zeolites - modifications, characterization and applications
4. FRÉDÉRIC THIBAUT-STARZYK Infrared spectroscopy for characterization and operando studies
5. TOM WILLHAMMAR Structural characterization of microporous materials at the atomic scale using electron microscopy
6. MONIQUE A. VAN DER VEEN Gas adsorption and separation in microporous materials

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FEZA Board Meetings

The FEZA Board met twice during the conference (4 and 5 July). During the meetings, the reports on the ongoing activities were presented, including the nominations for the upcoming FEZA 2026 conference and the elections of the new FEZA officers.

The bid of the Italian Zeolite Association was selected for FEZA2026 (venue Napoli). The newly elected FEZA officers for the period 2023-2026 are **Nataša Zabukovec Logar, President, Paolo Pescarmona, Secretary, Benoit Louis, Treasurer.**

The photos from the conference and preconference school: [FEZA 2023 - photos](#)

Ljubljana, 2023

Nataša Zabukovec Logar,
on behalf of FEZA2023 Organizing Committee