Brief vision of the candidates regarding their work in the Scientific Board of CEMEA SAS, p.r.i.

(elections: 12.11.2026)

Candidates for external members of the Scientific Board of CEMEA SAS, p.r.i.

Candidate: prof. Ing. Mária Bieliková, PhD.

As a professor of computer science and a researcher working in the field of artificial intelligence, I would focus my activities in the Scientific Board of CEMEA SAS, p.r.i. on supporting excellent interdisciplinary research and developing cooperation between SAS institutes, universities and research organisations. I see significant opportunities for synergistic development especially in linking materials research and biomaterials with modern methods of artificial intelligence, machine learning and data analysis.

I consider it important to support the institute in increasing its international visibility and creating opportunities for interdisciplinary cooperation. I would also like to contribute my experience from leading research organisations, evaluating scientific activities and the strategic development of research.

Candidate: prof. Ing. Ján Híveš, PhD.

As a professor at the Slovak University of Technology in Bratislava working in the field of technical chemistry and electrochemistry, I would focus my activities in the Scientific Board on the expert assessment of scientific and strategic plans, support for excellent and interdisciplinary research, and linking SAS institutes with universities. I would pay particular attention to the development of molten salt chemistry, electrochemistry, materials research and technologies related to energy and sustainability. I also consider it important to support young researchers, doctoral students, international cooperation and the effective transfer of basic research results into technological innovations and industrial practice.

Candidate: Assoc. Prof. RNDr. Stanislav Stuchlík, CSc.

Department of Molecular Biology, Faculty of Natural Sciences, Comenius University in Bratislava

I envisage my work in the Scientific Board of CEMEA SAS, p.r.i. as an active and constructive contribution to the development of both institutional and scientific cooperation between

CEMEA SAS, p.r.i. and partner institutions. In the area of institutional cooperation with the Faculty of Natural Sciences of Comenius University in Bratislava, I see room for systematically deepening the coordination of joint activities, sharing infrastructure and supporting the interconnection of research teams that can mutually strengthen their capacities.

In the sphere of scientific cooperation, I consider particularly promising the overlaps in the field of biomaterials research, where there is a natural synergy of topics, methodologies and experimental approaches. Joint projects, shared doctoral topics or coordinated research activities can significantly increase the quality and visibility of the results of both institutions.

Part of my work in the Scientific Board would also include active participation in meetings and selected events of CEMEA, with the aim of contributing to expert discussions, supporting the strategic direction of the institute and helping to link its activities with external partners.

Candidates for internal members of the Scientific Board of CEMEA SAS, p.r.i.

Candidate: Dr. rer. nat. Peter Šiffalovič, DrSc.

In the Scientific Board of CEMEA SAS, p.r.i., in the next term of office I want to build on the work done so far and focus mainly on three areas.

International grant success. I want to support the institute's involvement in Horizon Europe, ERC and bilateral schemes. I want to pass on my experience from coordinating and solving European projects to younger colleagues as well, for example through internal reviews of proposals before submission.

Quality of research and its evaluation. I will advocate emphasis on the quality of publication outputs and thorough preparation of the institute for the periodic evaluation of the Slovak Academy of Sciences. I will likewise support linking materials research with applications in energy and with industrial partners.

Training of young scientists and shared infrastructure. I want to support doctoral students and postdocs, their international mobility and access to large research infrastructures (synchrotrons, XFEL). At the same time, I will advocate the efficient sharing of the institute's unique instrumental equipment among research groups.

In decision-making in the Scientific Board I want to be guided by transparency, expertise and the long-term interest of the institute.

Candidate: Mgr. Eliška Švastová, PhD.

- Support the development of interdisciplinary research by connecting experts from the fields of materials science, chemistry, biology and medicine with the aim of accelerating the development and application of advanced materials in biomedicine.
- Actively develop research of nanomaterials for the diagnosis and therapy of tumour diseases with a focus on studying the interactions of functionalised nanoparticles with tumour and immune cells, as well as on assessing the biocompatibility and biological safety of new biomaterials outside the oncological focus.
- Support the creation of joint research projects oriented towards the design, characterisation and biological testing of innovative materials with potential for clinical use.
- Seek out and initiate national and international grant opportunities focused on the development of advanced materials, nanotechnologies and their applications in diagnostics, personalised medicine and new therapeutic approaches.