



ICYS Workshop 2025

The ICYS Workshop provides ICYS Research Fellows with the opportunity to present their research achievements, deepen their knowledge in the field of materials science, and develop essential skills such as delivering presentations in English, effectively appealing to an audience from diverse backgrounds, and expressing persuasive opinions during discussions. Furthermore, the workshop offers a valuable chance to gain new perspectives and ideas across different fields.

The 17th annual workshop in 2025 was held over two days, November

6th and 7th. In addition to ICYS Research Fellows, the event was attended by the ICYS Directors, mentors, and ICYS alumni, totaling 29 participants who actively engaged in lively exchanges throughout the workshop.

The keynote lecture was delivered by Professor Daniel Crespy from VISTEC in Thailand, who shared the latest topics in his field.

Additionally, two ICYS alumni currently active at NIMS, Dr. Ryoma Hayakawa and Dr. Kosuke Minami, gave informal lectures that encouraged relaxed and open discussions among the participants.

On the first day, following an opening address by Dr. Tsuchiya, ICYS Acting Director, Dr. Hidenori Takagi, ICYS Director and Director of the Department of Quantum Materials, Max Planck Institute for Solid State Research in Germany, delivered a memorable talk





entitled "Materials Perspectives on Superconductivity Research - How many roads to high-temperature superconductivity?" which stimulated the participants' curiosity. This was followed by research presentations from the ICYS Fellows, characterized by passionate exchanges and lively Q&A sessions.

The fireside session featured talks by ICYS alumni: Dr. Ryoma Hayakawa (Principal Researcher, Nanoarchitectonics Materials Research Center, Semiconductor Materials Field, Semiconductor Functional Device Group) spoke on "Multifunctional Logic Circuits with Organic Anti-



Ambipolar Transistors," and Dr. Kosuke Minami (Principal Researcher, Polymer and Biomaterials Research Center, Biomaterials Field, Olfactory Sensor

Group) discussed "Nanomechanical Sensors Towards Artificial Olfaction: From Fundamental to Applications." Participants enjoyed a relaxed atmosphere that fostered creative thinking and new approaches.

The second day began with Professor Daniel Crespy's lecture on "Formation of ultrasmall nanoparticles in miniemulsion and their applications." The talk was followed by active discussion among ICYS Research Fellows, which provided a good opportunity for exchange of ideas.



Finally, Dr. Takagi, ICYS Director, concluded the workshop by expressing his gratitude to the invited speakers, ICYS alumni, mentors, and all those involved. The workshop ended with useful discussions and a friendly atmosphere for collaboration.