



## ICYS Workshop 2024

The ICYS Workshop is an important activity for ICYS Research Fellows to expand their knowledge of materials by presenting their own research results and learning about their colleague's research achievements. This year, the 16th workshop was held over two days on October 30-31, with 33 participants, including ICYS Research Fellows, Executive Vice President, ICYS directors, Mentors, and ICYS alumni.

Invited keynote speakers were Prof. Victorino Franco (University of Seville, Spain) and Prof. Hiroshi Jinnai (Tohoku University). In addition, a relaxed session after the dinner by ICYS alumni, Dr. Terumasa Tadano and Dr. Ryo Matsumoto, both are NIMS tenured researchers, added a touch of color to the event.

On the first day, following the opening remarks by ICYS Director Tsuchiya, Prof. Victorino Franco gave a lecture titled “New Perspectives in Magnetocaloric Research: From Energy Efficient Refrigeration to Fundamental Studies of Phase Transitions” which attracted great interest from the participants.



After that, each ICYS Research Fellow gave a presentation, and there was active Q&A session.





During the fireside session after the dinner, Dr. Ryo Matsumoto, an ICYS alumnus



from the Frontier Superconducting Materials Group, Quantum Materials Field, Research Center for Materials Nanoarchitectonics (MANA), gave a talk on “Development of Platform for

Exploration of Superconductors under Extreme Conditions.” Similarly, Dr.

Terumasa Tadano, also an ICYS alumnus and Group Leader at the Spin Theory Group, Research



Center for Magnetic and Spintronic Materials, gave a presentation on

“Computational and AI-assisted Exploration of Functional Heusler Compounds.”



On the second day, the program started with an enthusiastic lecture titled “Multi-dimensional Static and Dynamic Structural Analysis of Polymeric Materials by Electron Microscopy” by Prof. Hiroshi Jinnai from Tohoku University. The

ICYS Research Fellows asked questions, and a lively Q&A session followed.



In the closing remarks, ICYS Director Tsuchiya and Executive Vice President Taniguchi expressed their appreciation to the invited speakers, ICYS alumni, and mentors.