

Preface

The 26th International Conference on Condensed Matter Nuclear Science (ICCF26) was held on May 26–30, 2025, in Morioka, Japan. The conference brought together researchers and engineers from around the world to present recent advances and exchange ideas in the field of condensed matter nuclear science (CMNS), also known as low-energy nuclear reactions (LENR). A total of 169 participants attended, including 132 in-person and 37 remote attendees.

Continuing the long-standing tradition of the ICCF series, ICCF26 provided a platform for interdisciplinary discussions among participants from academia, industry, and research institutions, covering a wide range of topics, including heat generation, transmutation phenomena, electrochemical and gas-loading experiments, plasma and beam studies, materials science, diagnostics, and theoretical modeling. The contributions presented at the conference reflect both the steady progress in experimental capabilities and the ongoing efforts to address key challenges such as reproducibility and theoretical understanding.

The technical program consisted of plenary, invited, and contributed oral presentations, as well as poster sessions, with 44 oral presentations and 35 poster presentations. These presentations demonstrated the diversity of approaches in the field and highlighted emerging directions, including advanced materials design, improved measurement techniques, and increasing engagement with broader scientific and industrial communities.

ICCF26 was co-organized with Iwate University, whose support was essential in the successful organization of the conference. We gratefully acknowledge the generous support of our sponsors, including the Anthropocene Institute, Solid State Fusion, New Energy Foundation / Infinite Energy Magazine, The Thermal & Electric Energy Technology Inc. Foundation (TEET), Morioka Tourism and Convention Association, Japan CF-Research Society (JCF), Iwate Prefecture International Linear Collider Promotion Council, Clean Planet Inc., New Hydrogen Fusion Energy Inc., Industrial Heat LLC, as well as individual donors. Their contributions were indispensable to the success of the conference.

All papers included in this volume were submitted to the conference and accepted through a peer-review process following the standard review procedures of the Journal of Condensed Matter Nuclear Science. We hope that this collection will serve as a useful reference for researchers and will encourage further developments in the field.

On behalf of the Local Organizing Committee, I would like to express my sincere appreciation to all authors, speakers, session chairs, and participants for their valuable contributions. I am also grateful to the International Advisory Committee and all supporting organizations for their guidance and support.

The International Advisory Committee has selected Niagara Falls, Canada as the venue for ICCF27, which will be held from August 31 to September 4, 2026. We look forward to continued progress in the field and to meeting again at the next conference.

April 2026

Shinya Narita, Chair, Local Organizing Committee, ICCF26