## **ICR-iJURC Exchange Report**

Research Visit to Prof. Teruo Ono's Laboratory, Institute for Chemical Research (ICR), Kyoto University

Kawa Noman — RPTU Kaiserslautern 2 December 2024 - 28 February 2025

During my three-month stay as a visiting PhD researcher in Prof. Teruo Ono's group at the Institute for Chemical Research (ICR), Kyoto University, I had the privilege of collaborating with leading experts in magnonics and surface acoustic waves (SAWs). The warm welcome extended by Prof. Ono and his team fostered an ideal environment for both scientific progress and my personal growth.

My primary project centred on fabricating and characterising surface acoustic wave devices designed for magneto-acoustic interactions. Working closely with Kotaro Taga, Haruka Komiyama, Associate Professor Ryusuke Hisatomi and Assistant Professor Yoichi Shiota, I:

- deposited and patterned thin-film stacks via magnetron sputtering and electron-beam lithography;
- optimised SAW devices on piezoelectric substrates to achieve gigahertz-range operation; and
- performed ferromagnetic-resonance measurements to quantify spin-wave excitation efficiency.

Alongside regular laboratory work, I participated with the group at ALC-W 2025, held at the Shin-Furano Prince Hotel in Hokkaido, where I presented a poster on my Kaiserslautern research. A memorable skiing trip in Hokkaido further strengthened our collegial ties.

Living on the Uji campus enabled me to enjoy Kyoto's historic cityscape and surrounding mountains every day. Weekend excursions to Tokyo, Osaka, Nara and Hiroshima deepened my appreciation of Japanese culture.

I am deeply grateful to Prof. Ono and Ms. Yuko Tanaka for organising and supporting my stay, and to every member of the Ono group for their kindness and collaboration. My sincere thanks also go to the ICR-iJURC programme for funding this exchange, which has been both scientifically rewarding and personally inspiring.



ありがとうございました かわ のまん