

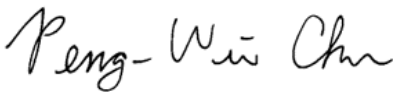
The 4th Taiwan Atom Probe Workshop 2024

Date: August 2nd (Friday), 2024

Time: 9:30 AM – 4:40 PM

Venue: International Conference Hall, Taiwan Semiconductor Research Institute, Hsinchu

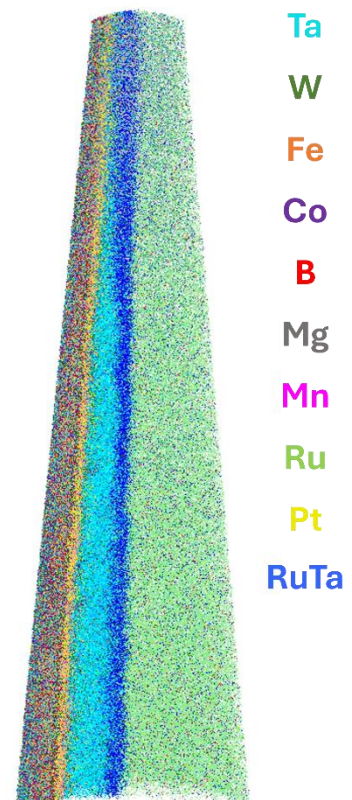
After successful workshops in 2018, 2022, and 2023, the 4th Taiwan Atom Probe Workshop will be held on August 2nd at the Taiwan Semiconductor Research Institute (TSRI), where the first public open atom probe in Taiwan is installed. The workshop this year aims to further promote the research and education of atom probe in Taiwan. We invited researchers from academia and industry to discuss the latest developments and applications of atom probe. Furthermore, a Lab Tour to the newly installed atom probe instrument (LEAP 5000 XR) will be organized. We cordially invite scientists, engineers, and students from different fields to join the 4th Taiwan Atom Probe Workshop.



Peng-Wei Chu, Chair of the 4th Taiwan Atom Probe Workshop,
Assistant Professor,
Department of Engineering and System Science,
National Tsing Hua University

All participants need to pre-register by
the following link or QR code:

<https://forms.gle/YQEQA8u3zBGak6>



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The 4th Taiwan Atom Probe Workshop 2024

Time	Event	Speaker
9:00-9:30	Registration	-
9:30-9:40	Opening Remarks	Prof. Peng-Wei Chu/ TSRI Director
9:40-10:30	Plenary Talk 1 Atom Probe Tomography for Semiconductor Applications	Dr. Katherine Rice Applications Manager, CAMECA Instruments, USA
10:30-10:50	Photo & Coffee Break	-
10:50-11:40	Plenary Talk 2 Hydrogen in Advanced Materials & Devices	Prof. Hung-Wei (Homer) Yen Professor, Department of Materials Science and Engineering, National Taiwan University
11:40-12:00	Invited Talk 1 Significant Time Reduction in APT Tip Preparation through Laser-Assisted FIB	Yu-Chen Yang APT Engineer, Taiwan Semiconductor Research Institute (TSRI)
12:00-13:00	Lunch	-
13:00-14:00	Lab Tour Please refer to the group list	TSRI staff
14:00-14:50	Plenary Talk 3 Introduce ZEISS Laser Crossbeam for APT Application	Bessy Chiu Product and Application Sales Specialist, Research Microscopy Solutions, ZEISS
14:50-15:10	Invited Talk 2 Nano-Scale Decomposition in High-Strength Quadruples Steel Revealed by Atom Probe Tomography	Yi-Hsuan Sun Department of Materials Science and Engineering, National Taiwan University
15:10-15:30	Coffee Break	-
15:30-15:50	Invited Talk 3 Study of Precipitation Behavior in a Mg-Zn-Ca Alloy by Atom Probe Tomography	Chih-Wei Sung Department of Engineering and System Science, National Tsing Hua University
15:50-16:10	Invited Talk 4 High Thermoelectric Performance in Heavily Boron-doped Silicon: An Atom Probe Study of Lattice Boundaries	Dr. Shang-Yu Tsai Department of Materials Science and Engineering, National Yang Ming Chiao Tung University
16:10-16:40	Q&A/Closing Remarks	Prof. Peng-Wei Chu/ Dr. Kun-Lin Lin

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