

Magnetic Property Measurement System (MPMS[®] 3)

The next generation of advanced SQUID magnetometry.

UW MEM-C Shared Facilities

MPMS3 Users Workshop

Date: Thursday 10 April 2025

Venue: MoIES 115

MEM-C Host: Dr. Chaowei Hu, *Postdoc Physics, Xu & Chu Labs, MEM-C MPMS3 Superuser*

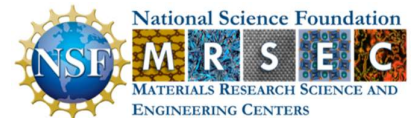
Guest: Dr. Randy K. Dumas, *Quantum Design, Applications Scientist*

Randy received his Ph.D. in 2009 from the University of California, Davis on the topic of reversal mechanisms in magnetic nanostructures. As a postdoctoral fellow at the University of Gothenburg, Sweden he studied next generation magnetic and spin wave based data storage and processing paradigms. Randy joined Quantum Design in August 2016 and his specialty lies primarily in magnetic characterization of both fundamentally interesting and technologically relevant materials.

Agenda

- 1:00pm **MPMS3-Base System**
Randy K. Dumas, Quantum Design
- 1:45pm **MEM-C User Talk**
Jonathan DeStefano
PhD Student, Physics, Chu Lab
- 2:00pm **MPMS3-Options**
Randy K. Dumas, Quantum Design
- 2:30pm **MEM-C User Talk**
Rachel Tenney
PhD Student, Chemistry, Gamelin Lab
- 2:45pm **Break**
- 3:00pm **MPMS3-Improving Accuracy**
Randy K. Dumas, Quantum Design
- 3:45pm **Discussions/Questions**
- 4:00pm **Workshop Close**

MPMS[®] 3



Funding for the MEM-C Shared Facilities' QD MPMS3 SQUID Magnetometer was made possible by MEM-C's award from the NSF MRSEC program (DMR-2308979), the **University of Washington Quantum Information Sciences and Engineering (QISE)** initiative supported by the College of Engineering and College of Arts and Sciences and the UW Department of Chemistry. Use of the SQUID is open to all registered and trained users, even those unaffiliated with UW. [Visit the MEM-C Shared Facilities website](#) to learn more about accessing the SQUID (or scan the QR code).



Become a SQUID user!