

NHMFL User Summer School 2026

May 11–15, 2026 | National High Magnetic Field Laboratory

MONDAY, MAY 11		
0815	Introductions	Tim Murphy
0830	Introduction to the DC & Pulsed Field Facilities	Tim Murphy
0845	Noise Suppression at the Magnet Lab	Jan Jaroszynski
1000	Measuring Resistivity and Hall Resistance	Alexey Suslov
1100	Principles and Operation of the Lock-in Amplifier	Matt Kowitt (SRS)
1300	PRACTICAL: Cryogenic Measurements in DC Magnets	Andrew Woods & Ali Bangura (SCM 1)
	PRACTICAL: Sample Prep Techniques	Kaya Wei & Sherman Benjamin (C132A area)
	PRACTICAL: Find the Ground Loop Exercise	Jan Jaroszynski (Cell 7)
	PRACTICAL: Regular and Digital Lock-in	Suslov & Kowitt (SRS) (Cell 12)
1730	DINNER: MagLab Overview	Eric Palm

TUESDAY, MAY 12		
0815	Cryogenics	Tim Murphy
0945	Sample Prep Techniques	Kaya Wei
1100	DC Facility Tour	Ali Bangura & Julia Smith
1300	PRACTICALS continue (same 4 rotations)	
1730	DINNER: Superconductivity	Lance Cooley

WEDNESDAY, MAY 13 — Half Day		
0815	Heat Capacity Measurements	Ali Bangura
0915	Thermometry	David Daughton (Lakeshore)
1015	Condensed Matter NMR Measurements	Rong Cong
1115	NMR, ICR, EMR Tour	TBD
1300	Stand Out in Science with Communications Tools	Roberts, McNeil & Schultz
1400	Dinner on your own	

THURSDAY, MAY 14		
0815	Optical Spectroscopy of Condensed Matter	Mike Ozerov
0900	Magneto-Optics	Stephen McGill
1000	Introduction to the PPMS	Randy Dumas (Quantum Design)
1100	Measuring Fermi Surfaces in Extreme Fields	Laurel Stritzinger
1300	PRACTICAL: Optical Spectroscopy	McGill & Ozerov (McGill Cell 1 & Cell 3)
	PRACTICAL: Resistive Magnet Measurements	Choi & Brumm (Cell 6)
	PRACTICAL: PPMS Techniques	Dumas & Ratkovski (SCM 6)
	PRACTICAL: Designing your Experiment	Dmitry Semenov (TBD)
1730	Dinner	

FRIDAY, MAY 15		
0815	How to Use a National User Facility	Tim Murphy
0900	Ultra-Low Temp: High B/T Theory & Experiment	Mark Meisel (UF)
1000	Tricks on Resistance Measurements using Lock-in	Daughton (Lakeshore)
1045	CHESS Facility & MagLab–CHESS User Collaboration	Jacob Ruff (Cornell/CHESS)
1115	Panel Discussion with Instructors	All
1300	PRACTICALS continue (same 4 rotations)	
1650	Feedback & Wrap-up	
1730	Dinner	

Lecture	Practical	Tour	Dinner	Comms
---------	-----------	------	--------	-------