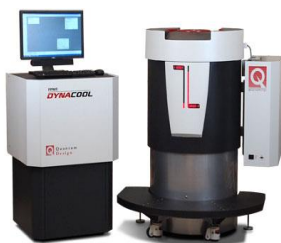


Introduction to *Quantum Design* Magnetometry and Magnetotransport Systems at Birck



Birck Rm. 1001
Wednesday, June 29, 2016
11 am



Come hear Neil Dilley, new Research Scientist with the Spintronics Pre-eminent Team at Birck, speak about the design and capabilities of the **PPMS DynaCool Cryostat** and the **MPMS-3 SQUID Magnetometer** located in BRK 1157a.

- 1.8 K – 1000 K, up to 9 tesla
- DC and AC magnetic moment
- Hall Effect, Magnetoresistance
- I-V curves, differential conductance
- Magnetoelectric effect
- Custom Transport (gating...)
- Future possibilities:
 - Torque Magnetometry
 - Thermal Measurements...

You can look at the slides before you come: <http://tinyurl.com/zjh7rpz>

nano.purdue.edu