

# What Sample Environment Can Do For You

Monday, 2 December 2019 12:20 (15 minutes)

Sample environment at ACNS comprises a varied suite of instrumentation and equipment. In the last 12 months this has expanded with two new cryostats and a new helium dilution refrigerator being commissioned. We will talk about our capabilities, how to get the best out of our equipment and some recent unique and interesting sample environment set ups. These include a sample changer on our 5T magnet for use on the SANS instruments, line of sight cryostat sample probes to allow illumination and optical spectroscopy in-situ, combined electric and magnetic field studies of skyrmions phases using SANS, and carbon fibre sample probes for fast cooling and quicker changes. There have been considerable changes the sample environment team at ACNS in the last two years. We have not only had significant changes in our team, we have also weathered a period of low resources in the first half of 2019. At this meeting we have a refreshed team and a positive future ahead of us supporting experiments and providing innovative sample environments. Most importantly we want to hear from you during this presentation. We want to know what you want to achieve in your experiments; what is important for your samples and what combinations of sample conditions you want to try out during your neutron beam instruments. We want you to help us provide what you need in the coming years.

## Level of Expertise

Expert

## Do you wish to take part in the poster slam

No

## Travel Funding

No

## Speakers Gender

Female

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