For physics teachers to have the opportunity to develop their understanding of physics concepts through discussion with physics researchers.

Their new knowledge and understanding is then shared with their students while teaching the curriculum in more innovative and exciting ways.

Researchers:
Prof George Pickett
Dr Viktor Tsepelin
Dr Sergey Kafanov
Dr Dmitry Zmeev
Event Summary

This free event is for all teachers of physics, technicians and trainees and is organised by the Institute of Physics in collaboration with Lancaster University and the The Ogden Trust.

The day will begin with a talk by distinguished professor George Picket FRS about his quest to reach the lowest temperature for bulk matter (a few micro Kelvin). Professor Pickett designed this experiment which has taken two years to build. It is expected that the participants will be not be familiar with the techniques used for ultra low temperature experiments and informal discussion will be encouraged throughout the day. The pitch will be to A level physics standard, but all teachers are welcome.

The day will include demonstrations of superconductivity with discussions explaining this activity, a tour of the low temperature labs, and the physics of measuring temperature using a fundamental scale. Workshops will include activities which can be used to teach the thermal physics component in A level Physics.

Programme

Welcome and refreshments
Talks and discussions
Tour of the low temperature labs

**Workshop 1**
Measuring the critical temperature of a superconductor

**Workshop 2**
Measuring the specific heat of vaporization of liquid nitrogen

To book or for more information visit: [https://www.talkphysics.org/events/teacher-cpd-low-temperature-physics/](https://www.talkphysics.org/events/teacher-cpd-low-temperature-physics/)
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