

## South West Physics Teachers' Conference

For the workshop sessions you will need to choose two workshops from the four options below; one for the morning and one for the afternoon session. All the workshops have proved popular and useful, they will be presented by experienced physics teachers and consultants.

### Workshop A: Materials in Action

In this presentation we will explore how materials have helped to change and improve the technology we rely on by looking at how they are used in computers, aircraft, sports equipment and medical devices. Metals, polymers, ceramics, composites and smart materials will be discussed in terms of their uses in these applications.

Dr Diane Aston  
Education Co-ordinator,  
The Institute of Materials, Minerals and Mining

### Workshop B: Variety

This is a lively hands-on session presenting to participants a collection of ideas for low-cost demonstrations and class practicals to challenge and inspire your students. KS3, KS4, Post-16

Helen Pollard  
Gatesby Science Enhancement project

### Workshop C: Toys and Physics

A journey through the world of toys looking at our understanding of how some toys work in relation to what we might be teaching. Toys can provide interesting starting points to many topics and are guaranteed to stimulate discussion at every level. An opportunity to examine, puzzle over and play.

David Featonby  
IOP Physics Network Co-ordinator

### Workshop D: Optoelectronics.

This workshop introduces an innovative project of practical work and teaching resources on modern applications of physics designed to motivate students and provide a support community for the teachers involved. Participants will build their own buggy.

Lin Harwood and Cerian Angharad  
IOP Physics Network Coordinators.

**Most workshops have limited numbers so they will be filled on a first come first serve basis.**