

As places are limited please book your place as soon as possible.

To reserve your place or request further details please e-mail

**Andrea Fesmer**

IOP Teacher Network

Co-ordinator for North Wales

at

**andrea.fesmer@talk21.com**

The conference is **free** for anyone who teaches physics at any level or who is interested in physics education.

The meeting will be held at

Trefenai

The School of Education

Bangor University

Normal Site

Bangor

Gwynedd

LL57 2PZ

## Programme

**10.00 – 10.30** Registration and coffee

**10.30 – 11.00** Lecture 1: Electronic engineering: We need physicists...  
by Dr Iestyn Pierce Senior Lecturer in Electronic Engineering, Bangor University.

**11.10 – 11.40** Lecture 2: Things that go Bang in the Night (or Exploring the Dynamic Universe)  
by Dr Andy Newsam Reader in Astronomy Education, The Astrophysics Research Institute, Liverpool John Moores University.

**11.45 – 12.00** News slot  
(Details of events and resources)

**12.00 -13.00** Lunch and view displays

Displays confirmed from  
Milligate House Education  
Daresbury Labs / STFC  
Institute of Physics  
National Schools' Observatory  
Careers Wales  
Voluntary Services Overseas

**13.05 – 14.05** Workshop session 1  
Select one from those available overleaf.

**14.10 – 15.10** Workshop session 2  
Select one from those available overleaf.

**15.10 – 15.30** Plenary 'Any Questions?'  
and evaluation

**15.30 – 16.00** Coffee

**IOP** Institute of Physics | Sefydliad Ffiseg

## A teachers' conference for all who teach physics

To be held at  
**Bangor University**

**Tuesday 3 June 2008**



## Workshops

Workshop A	Workshop B	Workshop C	Workshop D
Active Assessment Brenda Keogh Milligate House Education	Astronomy in the classroom Dr Andy Newsam The National Schools' Observatory	New Ideas? Gary Williams IOP Teachers Network	StarLab and other resources Alan Brown Daresbury Laboratory

### Workshop A: Active Assessment

You may be convinced about the value of assessment for learning but feel it is not quite so obvious how to implement assessment for learning in your teaching. This session is about making it happen in your classroom. It recognises the value of taking pupils' ideas into account, and shows how to do this in a manageable and realistic way. It builds on research into assessment for learning, and links strongly with current developments in the teaching of science. The session is highly interactive and engaging, emphasising pupils thinking, talking and learning through a comprehensive range of quick and simple, but effective, strategies. This workshop links with the Active Assessment Project. Participants will receive a 20% discount off the project materials.

#### Brenda Keogh

*Milligate House Education, Sandbach CW11 4PN [www.millgatehouse.co.uk](http://www.millgatehouse.co.uk)*

### Workshop B: Astronomy in the Classroom

Learn how to observe with the world's largest fully-robotic telescope from your classroom. In particular I will be highlighting the ways in which you can let your pupils explore the universe for themselves using tools that match the way in which professional astronomers work. Not only does this provide a great stimulus for pupils, both in- and out-of the curriculum, but it leaves you free for all that important paperwork.

#### Dr Andy Newsam

*The National Schools' Observatory, Astrophysics Research Institute, Liverpool John Moores University*

### Workshop C: New Ideas

This session consists of 19 ideas that are either new or re-workings of an old gem. Participants receive a hand-out containing further details about the ideas and where to get the apparatus. The age range for which the ideas would be suitable for using in the classroom varies but the majority would be KS4 and KS5. The mode of delivery also varies, some ideas are for demonstrations but some are suitable for coursework.

#### Gary Williams

*National Coordinator, Institute of Physics Teachers Network*

### Workshop D: Starlab and other resources

The STFC Science and Society team at Daresbury laboratory is putting together a series of resources that will be available free throughout North Wales. The first is a Starlab, with specially prepared presentations, with others to follow. The resources will be accompanied by a member of the Science and Society team and fully explained to pupils.

#### Alan Brown

*Education and Public Events Organiser, Daresbury Laboratory*