

NEC Preview 2003

D&T WITH ICT SHOW 27TH-29TH NOVEMBER



The Technology Enhancement Programme (TEP) have been associated with ICHF and the D&T show over many years and are pleased to celebrate the show's 26th anniversary. Visitors to this year's NEC show should leave themselves plenty of time to visit our stand. TEP will be featuring the breadth of support and activities available. Each day will include 'on-stand' clinics for teachers and led by teachers on **CADCAM, Robotics, Desktop Manufacture, Materials Technologies, Systems and Control and Electronics.**

This year TEP feature in the NEC seminar programme with a particular emphasis on Desktop Manufacturing:

» Desktop Solutions for Designing and Making 14.00 Saturday 29th November

Quality work in Key Stages 3 and 4 is often restricted by poor access to resources and the need for low cost, high quality materials and equipment. Part of TEP's work is to redefine and exemplify those opportunities and choices available for teachers. The seminar seeks to review a range of emerging good practice and strategies for implementing and sustaining, quality making and 'desktop' practice. The presentation will look at the breadth of coverage and sustainability of projects to energise active capability in pupils. These new desktop manufacturing ideas and processes will also be presented on the stand throughout the show.

On the afternoon of **Friday 28th November** TEP will also be presenting a session on 'Electronics support for ECT trainers' on the DATA stand with an opportunity for trainers to review the latest PIC and electronics support materials.

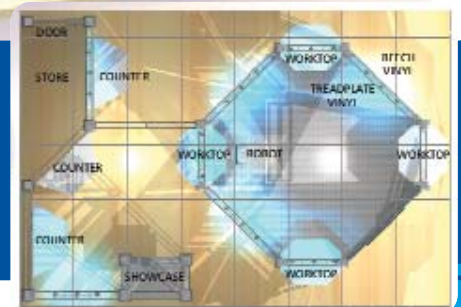
TEP will also be celebrating the work of 'Millennium' schools who have worked on our national project aimed at raising the quality and standard of designing and making at Key Stage 3. The work has impacted directly on nearly 11,500 pupils during the last three years. **Jenny Dein** TEP Teaching fellow from Sheffield Hallam University and **Penny Bailey** from Shipston High School (Her work is featured in this issue) will be enthusing and providing guidance, ideas and inspiration for all of us on the projects. They provide useful starting points for project work and as drop-in focused activities into existing schemes of work. Visitors to the stand can review the work of the schools, associated publications and resources and collect copies of the units of work.

TEP welcomes and supports this year's seminars by Dr David Barlex on Electronics in Schools developments. Affordable, manageable and successful are all TEP hallmarks of our PrESS (Practical Electronics Support for Schools) resources. Details of the 2003-2004 Electronics in Schools programme and PrESS resources will feature on the stand including teaching boards and PCB kits for a wide range of projects.



► How the TEP stand will look at the NEC D&T with ICT Show

TEP stand floor plan ►



PIC based ECT resources will be available at the NEC to review including **PICtalk**, developed in collaboration with Salford University. PICtalk teaches pupils how to communicate data in digital format using radio waves. It opens up a new area of project possibilities for pupils. Not only can they learn about the nature of digital communication but they can also use it for control or data logging – or even a combination of both.

John Cook will be on hand to demonstrate some new PICAXE and Chipfactory ideas and strategies. **Frank Muraca** will be keenly demonstrating the latest TEP **Phone PIC** programmer (see page 9 of this issue). This is going to be the latest 'must have' low cost resource for every D&T department. While on the stand take the opportunity to try out the latest **Chip Machine** an entry level keyboard based PIC programmer that avoids the need for software or computers to programme PICs.



► Phone PIC - this revolutionary programmer makes its debut. Don't miss it!

Some of the wonderful work from this year's TDi awards will also be at the show, celebrating innovation and technology from 13-19 year old students. The TEP/ MTA TDi design innovation awards were held at the University of Warwick during the summer were a great success with twelve finalist schools taking part. Entry details of the 2004 Technology Innovation competition will also be on the stand.

TEP teacher guidance leaflets on the breadth of resources and support from TEP are available on the stand including Smart Materials, Emodules, Electronics, ICT resources, Millennium Projects for Key Stage 3 and exciting INSET opportunities. The leaflets are a great source of information without having to 'dig through' catalogues and brochures for ideas, products and sources. Sample bags of the latest 'Smart' materials and an introductory PCB project are also available free during the show. The board is supplied unpopulated and needs just a transistor and a choice of just a few other components.



PICtalk - a fantastic Control and Communication teaching resource kit



TEP Resource and Support leaflets



The full range of TEP CD-ROM resources will be on display

All the CD-ROM titles available from TEP will be available to review at the show including the most recent title: **Introducing Manufacturing** is designed to support the new 14-19 courses. The CD features manufacturing processes, equipment and supported by in depth product and industry case studies.

Mark Watson will be steering visitors through the range of TEP's ICT resources. We now have 12 titles available covering Key Stage 3 to Key Stage 5 and will be delighted to let you stay all day on the laptop bar working through exemplars and case studies. We will have available for sale during the show all the CD-ROM titles.

You may remember **Damian Parker** and his students work from **St Cyres School** in the last issue of News and Views. Some of their work and Damian will be on hand to stimulate the way we plan and teach our Systems and Control courses. **Allen Bower** from **Lady Manners School** whose outstanding work has featured widely during the year will join us during the show to provide some great examples of project work and share ideas with colleagues and ITE tutors. **Martin Clarke** AST from Hertfordshire will also be available to discuss Joint schools collaboration and some of his experience in managing European Schools projects.

Mark Harmsworth, new head of D&T at **Rhyl High School** will be 'showing off' **Pandora**, his latest robotic creation. As you may know Mark has an insatiable appetite for all things robotic and will be keen to meet all visitors and talk robots! A number of Robotic walkers and crawlers will also feature with **Keiron McGeever** who will have a number of robotic kits to give away on each day of the show and even the chance to build one during your visit.

TEP are also pleased that **Bill Nicholl** course leader for the D&T SCITT Programme at **Homerton College, Cambridge University** will join us during the show. The established and acclaimed course is now in its third year and both TEP courseware and hardware feature strongly.

Some exciting new product from Teaching Resources will be demonstrated



teaching resources



If you cannot find time to get to the show or visit the stand this year do drop in on the TEP website at www.tep.org.uk it's worth the visit!

