



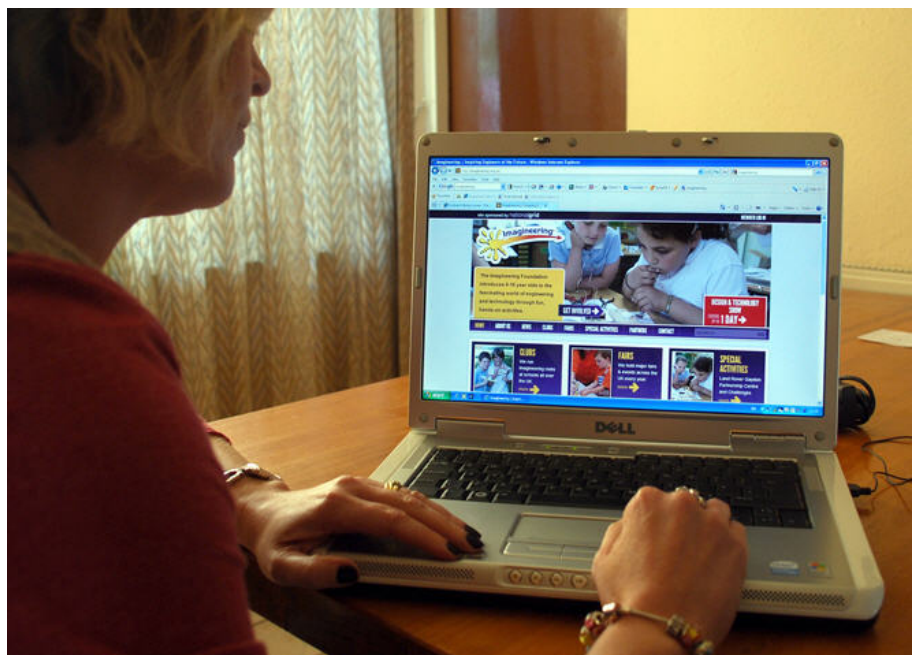
NEW IMAGINEERING WEB SITE LAUNCHED

Imagineering's long-awaited new web site has gone live

After much careful planning and preparation, Imagineering's new web site has finally launched - and with a new address:
www.imagineering.org.uk

The bright new site, with its easy navigation, is now also equipped with a content management system (CMS) enabling members of the Imagineering team to update sections more easily and therefore more frequently. Martin Evans of National Grid will continue to be Webmaster.

The site is aimed at everyone from parents, teachers and educationalists to manufacturers and engineering organisations - all stakeholders in Imagineering and also those who have yet to hear of the initiative. Club Tutors are Members, with a special password, and can access and download all current project documents and interact with comments and suggestions. There is general information on how to get involved with Imagineering, booking forms and other downloads.



Designed and constructed by Tim Print of Shooma of Stratford, the new site has been made possible by the generous support of National Grid.

CHAIRMAN RECEIVES ANOTHER AWARD

In the last issue we reported on the special IET Award to Bob Shanks, Imagineering Chairman. Since then he has received yet another! He has now received The Stephenson Award from the Worshipful Guild of Engineers for excellence in inspiring young people into engineering. He was nominated by the Institution of Mechanical Engineers of which he is a Member. With customary modesty, he said: "To receive these two Awards and so close together, has been a great privilege but more importantly it is recognition for the success of the Imagineering initiative. It pays tribute to the scores of volunteers who work hard weekly in the Clubs and at the annual Fairs to make this inspiring work such a success."



He is congratulated here by two young visitors to the Imagineering stand at the recent Design & Technology Show (for teachers) at the NEC.

WELCOME

to the second issue of The Imagineer! Full of news, views and tips! Don't forget to let us know what else you would like to see in the newsletter.

COUNTLESS OF WESSEX visits IMAGINEERING



Full story on page 3



TAKING CONTROL....

Reviewing some of the concerns of Imagineering Clubs tutors around the country

Following research and individual comments from teachers over the last year, it is apparent that some tutors are finding discipline and control in their Clubs are becoming something of an issue.

The Imagineering team has taken these concerns on board and developed a useful document. 'A Guide to Working with Children'. Full of tips and guidelines, suggested by education experts, STEMNET and the team's own experiences.

The complete document is available on request from Karen Cookes, Imagineering Administrator,
Email: KCookes@sworcs.ac.uk
Tel: 01386 712657

In the meantime here are one or two tips that may help.



1. Make sure you start on the right foot, introduce yourself clearly.
2. Set boundaries for acceptable behaviour - be consistent, firm and fair.
3. Try to establish an atmosphere of mutual respect. Never use sarcasm.
4. Agree the general rules - there are probably general rules already in the class - check with the teacher.
5. Praise positive behaviour and good work - it can go a long way towards building a child's self-confidence.
6. Always have a variety of ways to keep them involved and on task.
7. Try to engage disruptive pupils - with questions - involve the whole class - offer praise.
8. Consult the teacher (who should be present) if they continue to be disruptive.



ENGINEERING VISITS

- why they are so important

The engineering or factory visit is one of the most important aspects of the Clubs experience and provides the youngsters and teachers with the opportunity to see engineering in action in a modern environment. This reinforces many of the engineering topics they learn in the Clubs and most importantly presents a positive image of modern engineering and manufacturing.

Volunteer Dave Elliot has prepared a list of firms willing and able to host visits from Clubs and he is seeking more organisations to add to the list. There have been some highly successful trips to date -

..to Yamazaki Mazak at Worcester...



..to Morgan Cars Limited, Malvern...



And there are benefits for the companies too, as highlighted by **Stuart Fell, Chairman of Metal Assemblies Ltd**, who hosted a Club from Bluecoats Junior School, Walsall. "...they were all full of enthusiasm and questions and it was obvious that they had enjoyed their time with us, but what made it even better was that everyone in the organisation ended up smiling with them, and a few days later we had a delegation from the shop floor requesting further such visits.!"

If you know of a company or engineering organisation in your vicinity that would be able to host a visit, or would like to book your own visit contact Dave at
E: dave.elliott@yahoo.co.uk .

FIRST EVER CLUB RESTARTS

A Club has re-started at the tiny village school of Church Lench First School near Evesham, one of the very first locations. The spirited Club of twelve youngsters from year 5 is run by Anne Freer the head teacher, David Summers a parent governor and David Yates. Anne Freer comments: "The children are so enthusiastic with all the new projects David has shown us."



More . . .

We are always looking to give more children an introduction to engineering through the Imagineering Clubs experience. In turn that means we are always seeking more tutors and more interested schools.

You can help. The best route to recruitment is networking – who do you know who might be interested or have links – perhaps through a company – to others or to schools that might be? We aim to offer induction sessions for those who want to know more. For Clubs led by teaching staff we have fliers they can use to find volunteers locally.

If you have ideas or would like the fliers please contact Alastair Graham Bryce, 01926 427201 algebra@imagineering.org.uk.





WHAT'S NEW IN CLUB PROJECTS..... *an update*

from David Yates



We are very pleased that HME of Bromsgrove, who now package and deliver the kits, is supporting us well and we have had no major problems.

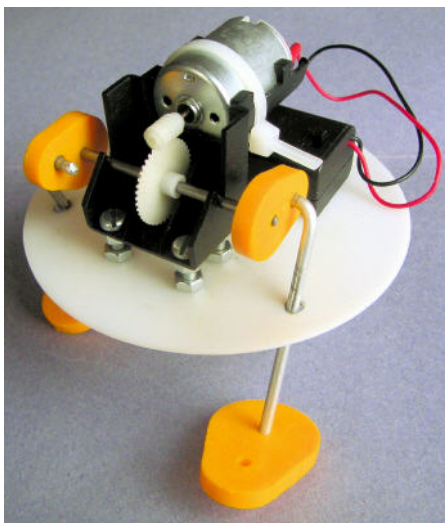
However, unfortunately Flights of Fancy, who have made many of our kits, has now decided to cease trading from the New Year after having moved away from the area.

Gary Whitcombe and Flights provided a very good service after John James stopped production and we thank them all very sincerely for their efforts. This has meant that the production of Inter-Engineering kits will be brought forward and will be manufactured by HME in the 20-11/12 year.

In the meantime, HME has assembled these kits from some parts made by Flights of Fancy. Karen Cookes, our hard-working Administrator and our Clubs Co-ordinator Alastair Graham Bryce have done a great job in identifying and ordering all the parts for HME.

There has been continuous development of the kits and the **Bloodhound Jet Car's** performance has been improved by reducing its weight and providing it with a body resembling the real car.

The **Micrometer** has proved to be a little difficult and further development is in hand to make the body more rigid. We will probably omit the micrometer from the present curriculum whilst this development is taking place.



Many children will be delighted to hear that we have overcome the problems we had with the ever popular **Robot Duck** (left) and these will now be supplied in Term 2.

We continue to investigate new models more attractive to the girls in our Clubs and projects involving working as a 'team'. This would be the first time we try to introduce co-operation between children who will then have to work together.

It is inevitable that changes to the projects supplied with the term packs may occur due to supply problems and whilst we produce model schedules every year it is advisable to check the current status on the web site.

THE COUNTESS OF WESSEX VISITS IMAGINEERING

..... the highlight of a busy summer for Imagineering

HRH Sophie the Countess of Wessex paid a fleeting visit to the Imagineering Fair at the Royal Bath & West Show, Shepton Mallet this summer.

During her visit she presented Imagineering with the Gold Award for Best Feature in Show, received by Event Manager, Rod Cannon (below).



This was the third consecutive year that the Fair had scooped the Gold, testament to the enormous continuing support from all the participating organisations, such as Airbus, Thales, AgustaWestland, GE Aviation as well as the Army and Royal Navy - and of course the scores of volunteers, including those on the Clubs stands, who made it all such a success. More than 23,000 people visited the Imagineering Fair at Bath & West this year.

This was a busy summer for all in Imagineering, taking part at the the



Royal International Air Tattoo at RAF Fairford in July (below left) and the Yeovilton Air Day (below)



...with plenty of fun and exciting activities for all ages....





NEW INITIATIVE WITH NATIONAL GRID

In partnership with National Grid, one of Imagineering's major supporters, Imagineering has launched a new activity-based learning opportunity for schools - the Grid @ 75 Challenge.

National Grid is sponsoring this project to celebrate the 75th anniversary of the UK's mainland electrical grid system. The project, aimed at Years 6, 7 and 8, will be available at the Imagineering Jaguar Land Rover Partnership Centre at Gaydon in Warwickshire.

The Grid @ 75 Challenge, which takes around three hours to complete, involves teams constructing a working model grid system with transmission towers. A model power station supplies the system using a variable speed motor which drives a small a.c. generator. A small transformer supplies 'grid voltage' to the transmission cables and at the other end a substation changes the voltage to supply lighting power to a model house.

An exciting and highly successful pilot scheme was undertaken at Curdworth Primary School in Sutton Coldfield

when 25 excited youngsters divided into two teams and successfully built two separate working grid systems - and they had enormous fun!

Initially National Grid will be funding free school places on the Grid @ 75 Challenge to attract new schools to the other opportunities available at the Partnership Centre at Gaydon.



Richard Earp, Education & Skills Manager at National Grid, said: "This is a great opportunity for young people to develop their practical skills and to think about the science and engineering that lies behind the vital infrastructure that we all take for granted."

The new season at the purpose-built education facility, Imagineering Jaguar Land Rover Partnership Centre at Gaydon, has got off to a good start with bookings for a wide range of curriculum-linked taught modules for Year 4 and above. Everything from Imagineering Tasters and K'Nex Challenges to Robotics; Micro-Processing and Control Technology; Physics, Design & Rendering and of course the new Grid @ 75 Challenge.

For more information see Imagineering's web site or email schools@jaguarlandrover.com or call 01926 643497

DATES FOR THE DIARY

Imagineering has another exciting action-packed year ahead in 2011 with all kinds of events and activities. As usual we need plenty of volunteers! It is very rewarding and great fun to help out with simple activities for youngsters and to help to man the Imagineering Clubs stand at these events:

21-24 January 2011
IMAGINEERING at LONDON
MODEL ENGINEERING
EXHIBITION
Alexandra Palace, London

1 - 4 June 2011
IMAGINEERING FAIR
Royal Bath & West Show,
Shepton Mallet, Somerset

16-17 July 2011
IMAGINEERING at ROYAL
INTERNATIONAL AIR TATTOO,
RAF Fairford, Cirencester.



Anyone interested in signing up for a day at any of these events or for those who would like to know more, contact Joy Smith, Publicity Officer for Imagineering, on email: joy.smith@imagineering.org.uk or T: 01562 631466.



AND FINALLY...

Gayle Melia, Keystage 2 Co-ordinator at Donington Primary School in Lincoln sent this recent note :

"I am a Year 6 teacher in Donington Primary School who took part in the Imagineering Club for the first time last year. The children, parent helpers and I were very impressed with the overall organisation, quality of kit and knowledge of our tutor, Ian Ralston. The look of pride on each of the children's faces was always a lovely part of our sessions and we always had lots of fun which is why we signed up for another Club year."

Lovely to hear such positive feedback!

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www.imagineering.org.uk

For comments please email:
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