



ENGINEERING YOUR FUTURE

Reflections On Race Days



Issue 004-November 2010

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The summer holidays are now a distant memory but we hope they were fun-filled and exciting for all our readers. It was a busy time, with four Race Days, where competitors at Bluewater, Kent and Plas Menai in Wales, got baked in the summer sun, whilst competitors at Silverstone and in Wimbleball were nearly washed and blown away by the rain and summer winds! And all credit to you guys, not one complaint is ever made about extreme weather conditions....



So Far This Term....

The first of our annual one day events took place on 14th September. We did our Sail Boats Challenge at the Liner Terminal, Southampton. A popular event with local schools; this year 20 teams from 12 different schools, competed in sail boat races. If students had to blow their boats along last year at this event, they had to rein them in with effective rigging systems this; such were the windy conditions on the Solent. Perfect for a Sail Boat Challenge! Tasked to make sails to suit weather conditions, as ever 20 different teams produced 20 different designs. Redbridge and Quilley Schools; meticulous in their preparation checked wind direction and other designs before finalising their own; Oakbridge had a brilliant first run—perfect sails to match the conditions. Lakeside threw caution to the wind and had a huge sail which risked toppling; and it did! Tall masts, short masts, simple designs, highly complex ones too...in the end it was Thornden School who won narrowly beating Upper Shirley High. Well done to all!

The Marine Race Days all had representation from local primary schools this year; with as many as 300 Year 5 and 6 pupils over 3 days at Wimbleball alone. This is excellent news for both Formula Sun and the secondary competitors. For us it opens this flexible project up to another sector of education, and for you it means that stronger links can be forged with your feeder primaries. Another direction for us to go in this summer has been with Scout Groups. Collectively 800 scouts across several troupes, were set to do Formula Sun at their summer camp activities around the country. Although we did not personally attend, it's great to know that we have enthusiastic adults willing to give it a go. Plus, we are also speaking with a former teacher who currently runs a Church Group for dads and their children looking for fun things to do on a Sunday morning...and messing about with solar boats seems set to fit the bill! Clearly we have much to think about, and with Formula Sun firmly at the forefront of our minds, the next thing we wish to turn our attention to is our event at The London Boat Show in January. See Page 3 for further information.



ENGINEERING YOUR FUTURE

Lloyds Register Educational Trust

Contact: info@engineeringyourfuture.com

One Vision....Several Initiatives



Increasingly at EYF, we are asked to do One Day Events, so a brief run down to remind familiar readers of what we do and introduce new persons to ideas. We have been running themed events for several years now and you can be assured of professional delivery tailored to your specific needs.

Please contact us for information on any of the following or to discuss new ideas that you may need some help or resources to deliver.

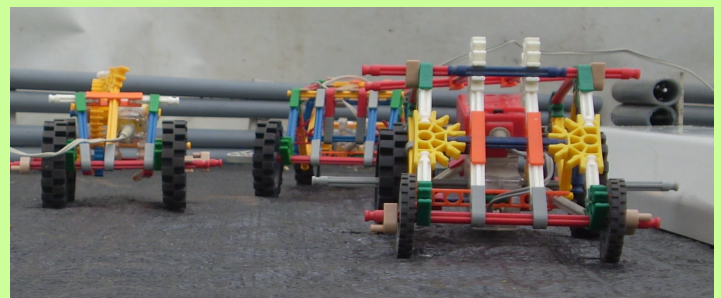
The Sail Boat Challenge

This is still our most requested event as it is simple to organise for large groups of all ages covering teamworking and basic marine design principles.



Formula Sun in a day!

This year's regional marine events proved successful for the local primaries to assemble and race solar boats, which we can now offer as a stand-alone exercise or integrated into wider curriculum covering: Renewable energy, product design, teamworking etc



Multi function vehicle

Design the car in teams using the equipment to cope with a range of conditions from slow steep climbs to fast-paced sprints. Best of all, like the Formula Sun Challenge, it is flexible being suited to all ages—from Key Stage 2 to staff training days. Using K'nex this project can be done without the need for specialist materials and facilities. It can involve building a simple car with motors or one where you have to build a gearbox to optimise performance in different conditions.



This challenge is one we hope to have available as an event feature at the Silverstone event next year.

More from EYF

Another exciting project is our wind energy project. Here you are challenged to power your vehicle using electricity generated by your own aerogenerator and stored! It takes a close look at topical environmental issues, of the feasibility of wind power, planning issues, as well as technical design. Pupils build generators, test them for efficiency and performance, logging the data to be used for further analysis in the classroom. Students testing their wind turbines.

Interested? Phone or e-mail to find out more....

Formula Sun at the London International Boat Show



Last year it was the launch, this year we are there to Race the boats! You do not even need to have a boat to take part, just roll up and build one of our one day challenge kits when you arrive! Obviously schools just racing will not gain any engineering points, but will be able to experience not only Formula Sun but the Fantastic Tullet Prebon London Boat Show! Find out more about The Boat Show and the educational opportunities it offers by visiting www.londonboatshow.com. All schools attending will also

have the opportunity to take part in the 'have a go' sessions on the Watersports Pool run by Rockley Watersports.

To plan your visit you must do both of the following:

- 1 - e-mail us to confirm attendance at info@engineeringyourfuture.com or you can fax the completed form enclosed with this newsletter to 01869 810674.
 - 2 - go to the schools area of the londonboatshow.com then follow the schools link where there is an online form to fill in.
- These two registration forms must be completed so that we know which schools are bringing boats and the Boat Show can allocate your free tickets. No registration will mean you can't get into the show so please do it NOW!



Formula Schools Race Day at Silverstone -2011 is June 30th



Formula Schools, brought to you by -

ENGINEERING YOUR FUTURE
One Vision...Several Initiatives



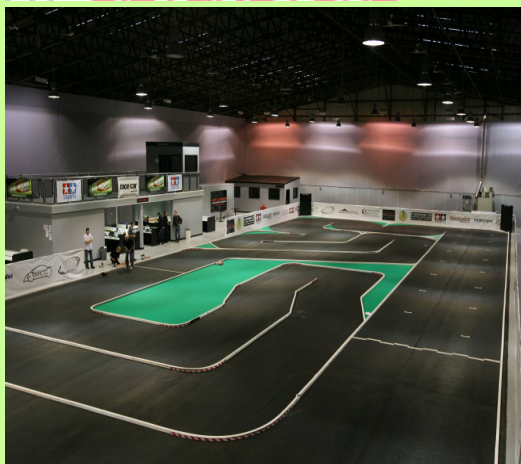
The centrepiece of the Formula Schools scheme is Race Day at Silverstone.

Some of you may know that Silverstone now has a world class Radio Control car race complex on site 'MOTO ARENA', Not surprisingly Formula Schools and Moto Areana have been talking and the result

is our Race Day will be held at their world class venue, but that is not all!

- ☞ All Formula Schools teams can have access to the complex for half price to hone their skills any time during the year.
- ☞ All schools will be able to download track information
- ☞ It doesn't matter if it rains, as they are located in a 36.000 sq ft, 3 storey building
- ☞ We are working with Moto Arena to offer other school projects based at Silverstone
- ☞ Best of all in the past we have had to wait until the F1 race calendar was fixed before we could get a date in the paddock, Formula Schools can now confirm the date for 2011 is June 30th 2011

**MOTO ARENA
AT SILVERSTONE**



Information from their web site

Moto-Arena Silverstone, is the world's premier radio controlled (RC) and virtual racing destination.

It is a fully interactive visitor experience ideal for a family day out, for those visiting the circuit, or those racers taking part in any of our official race meetings on our incredible indoor and outdoor tarmac circuits...

..with a dedicated outdoor area, at the very heart of the most famous of all motor sport facilities....

Moto-Arena also contains unique attractions, such as rock climbing, tank battles, helicopter and aviation zones, as well as leading simulators from F1, WRC, Moto GP and the largest world class slot car tracks.

**For more information or booking go to www.moto-arena.co.uk
To claim your 50% discount you must pre-book by telephone or e-mail and present this Newsletter (not a copy) on arrival at Moto Arena reception.**

Registering Your School for EYF activities

For all activities we require a registration form to be completed. We need to know who is doing what in order that we carry out essential forward planning to deliver events and plan Race Day activities at suitable venues and to appropriate scales. Please e-mail us—info@engineeringyourfuture.com for the forms or go to www.engineeringyourfuture.com to find them as downloads.

The image shows two registration forms. The top one is for the '2010/11 Registration Form - Formula Schools Challenge' and the bottom one is for the '2009/10 Registration Form Schools Marine Challenge Formula Sun'. Both forms include sections for school details, contact information, and a list of kits to be ordered from Technost UK Ltd.



School Focus—Shipston High School

Autumn Sale ...

Tyres, Wheels, Pulleys
All £1.00 each
Fuel tanks £3.00
Engines, for vintage enthusiasts we have a few Irvines never again available at £45.00 each and lots of spares - con rods, jet sets, pistons, liners etc
A couple of Leos; four APS marine engines all @ £45.00 each
Transmitters -Second Hand-40MHz and 27 MHz. You cover the postage with another order and you can have up to five Free of Charge



Schools Marine Prop shafts — £4.00

Shipston have been doing Formula Schools almost since it began and have one of the most integrated and thorough approaches to the scheme, including linking with local primary schools. We caught up with them recently to find that they have a full team in place already and are carrying out driver training and car development work. One innovative idea is the 'STIG board' where individuals are trying to beat the time set by the Stig, along the way recording all aspects of track timing in different conditions with different set-ups.

They have now ventured into Formula Sun and plan to be at the London Boat Show to kick it off. Then to build the project into a Primary links day based around an environmental theme. With lots of good ideas including serious rocketeering it is neither wonder that Technology is popular with pupils and parents.

Marine Race Day Latest

Not only are we able to confirm The Formula Schools Race Day for next year but with the increasing popularity of Formula Sun we are arranging dates such that you can get them into the school calendar early.

Plas Menai Monday 20th June
Bluewater Thursday 23rd June
Roadford TBC



