

Specialist ENGINEERING

A regular newsletter keeping Parents, the Community and Industry informed about the exciting opportunities at Hinde House 3-16 School



Engineering

Engineering Specialist Status at Hinde House 3-16 School

Principal: Mrs Sarah Draper

Secondary Phase
Shiregreen Lane
Sheffield
S5 6AG

Telephone: 0114 2438486
Fax: 0114 2436047

Primary Phase
Bracken Road
Sheffield
S5 6FH

Telephone: 0114 2426874
Fax: 0114 2560491

Email:
enquiries@hindehouse
.sheffield.sch.uk

HOT NEWS

Mrs Abel newly appointed as Director of Engineering Strategy at Hinde House 3-16 School



Modern engineering is dynamic, innovative and high technology.

At Hinde House we embrace this image and promote it through all subject areas in both content and delivery, reflecting the role engineering plays in all spheres of modern life. Whilst Mathematics, Science, Design Technology and Applied ICT have a significant role to play, engineering and engineering solutions are also explored in Humanities, Sports and the Performing Arts.

The 21st Century learning environment of Hinde House is an excellent environment in which to promote modern engineering.

Sarah Draper
Principal of Hinde House 3-16 School

YOUNG ENGINEERING AMBASSADORS

A group of year 10 students from Hinde House 3-16 School have been personally selected to become Young Engineering Ambassadors.

All the students meet regularly and have already taken part in the following:-

- n Bridge Building Engineering Day with the Royal Engineers
- n Visit to Forgemasters Engineering Firm

In the near future we are going to Sheffield University to learn about flight simulators and we will have an opportunity to be at the controls of the simulator.

The students are also helping Mrs Abel, Director of Engineering Status, to prepare for our Engineering Status launch week commencing Monday 13th March 2006.



THE ROYAL ENGINEERS VISIT TO HINDE HOUSE SCHOOL

When the Royal Engineers visited Hinde House the team had an excellent visit and rated the school, its organization and student response as one of the most positive they have received in over two years.

The children were from groups studying Design and Technology, Engineering

style subject matter and the team considered that they were much more focused on activities offered as a result. In addition the children all approached the activities with an open mind. I think they were a little surprised at the wide variety of uses of the Royal Engineers and the job opportunities available.

Many admitted that although they did not necessarily see themselves joining the Army they were surprised

at what we did, so at least we demolished a few misconceptions about us! All students, whether interested in the Army or not, appeared committed and interested in the lessons and the team left feeling they had connected with a wide variety of motivated children who were prepared to get stuck in!! In short they were a pleasure and interacted well.
*Major Robin Bruce
Royal Engineers*





ENGINEERING A BETTER WORLD

The 'Engineering a Better World' project is helping students from schools across Yorkshire and Humberside into careers in science and engineering by encouraging them to study science and mathematics.

The University's Centre for Science Education is managing the three-year pilot project in the Yorkshire and Humberside region, with the four regional SETPOINTS act as co-ordinating hubs at the local level. The project is funded by the Engineering and Physical Sciences Research Council (EPSRC) and Yorkshire Forward.

The scheme involves both curricular and extra-curricular activities in design & technology, science and mathematics, with school departments and careers specialists working collaboratively.

Hinde House is involved in a transition project which engages young people by giving them a positive experience of engineering in school and beyond. A major aim is to increase young people's understanding and perception of engineering and engineering careers, and the important role that mathematics and the physical sciences have to play. The project involves both our primary phase and our secondary phase helping students to make the transition more successful.

The immediate and critical challenge for the UK is to increase the numbers of quality graduates studying for physical sciences and engineering qualifications. The key to winning the challenge relies heavily upon inspiring and enthusing young people in science and engineering throughout their secondary school education.

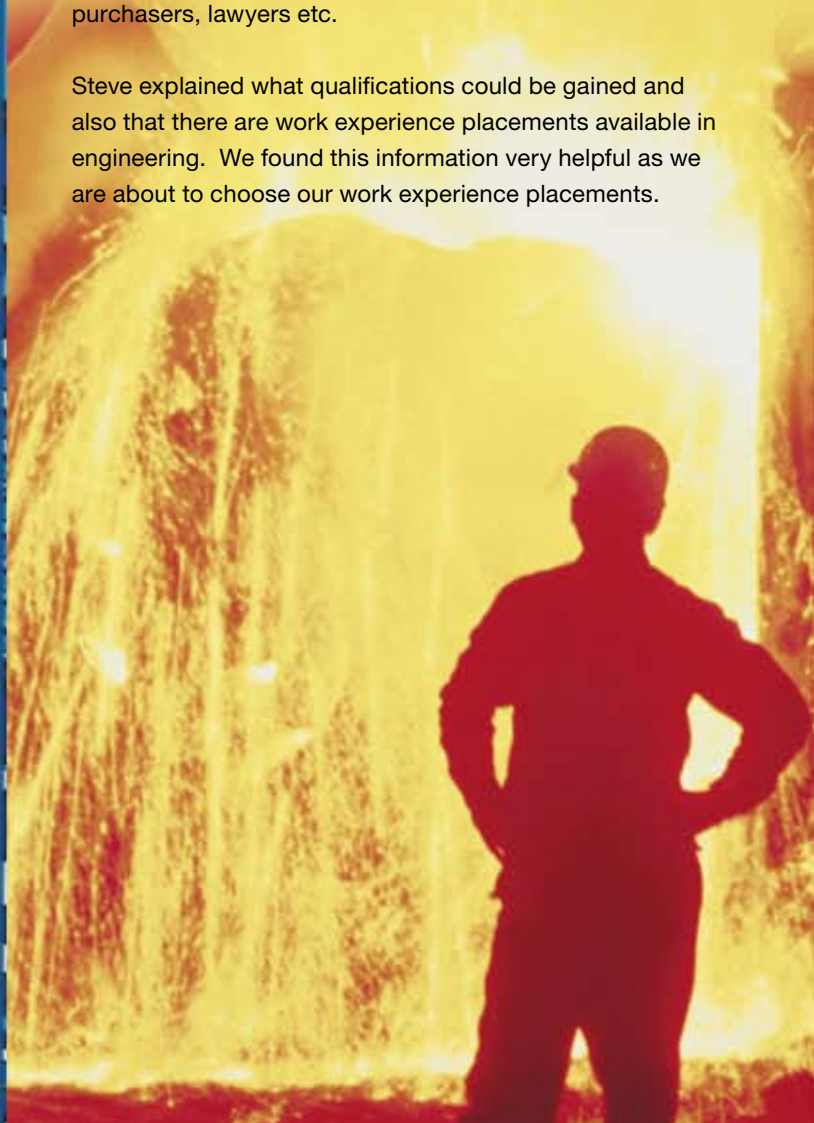
Y10

ENGINEERING PRESENTATION

Steve Tagg the group human resource manager for Forgemasters, Sheffield, visited Hinde House to introduce our school to engineering. He spoke to the students in Year 10 who are interested in a career in engineering.

We were shown a presentation on engineering in the workplace and what qualifications are needed to become an engineer. He explained what the staff at Forgemasters and other engineering workplaces do and that there is no other company as experienced as them, in their field. This year is their 200th year in business. Forgemasters is not only a regional company but is also a national and international company. Only around 10% of the staff work manually. The rest of the staff work as; secretaries, managers, purchasers, lawyers etc.

Steve explained what qualifications could be gained and also that there are work experience placements available in engineering. We found this information very helpful as we are about to choose our work experience placements.



VISIT TO FORGEMASTERS BY YOUNG AMBASSADORS FOR ENGINEERING AND MRS ABEL, DIRECTOR OF ENGINEERING STATUS

On Thursday the 19th of January 2006, the student ambassadors from Hinde House School went on a visit to Forgemasters of Attercliffe, Sheffield.

We learnt lots of amazing facts about the buildings there. Forgemasters was originally a hospital. We also had a presentation given to us by Steve Tagg. He explained what Forgemasters actually did and how. He told us that

the company had been going for 200 years and that no other company in the United Kingdom had been around that long. Harry Brialy was first employed there; he was the very first person to make stainless steel.

Steve also explained the many varied markets they serve.

We were then shown diagrams of the company history and Steve explained

how it came about for the 2 major steel companies to merge in 1982. This then became Forgemasters. We then had a look around the company. There was a lot of heavy machinery and lifting gear. The products they produced were extremely heavy and one weighed 275,000 tons.

This visit opened our eyes to how engineering has developed over the years.



Sheffield Forgemasters International

Visit by
Hinde House 3-16 School
19th January 2006

Assistant Headteacher, Julia Abel, and six young engineering ambassadors, were invited to take a trip around our company to view the many processes that have made Sheffield Forgemasters one of the world's foremost engineering companies.

The visit continued with a tour of the South Machine Shop and the Roll Shop. Literature and memorabilia were given to the party to assist with project work.

The company was very pleased with the students' enthusiasm and interest and thought they were a credit to the school. *Steve Tagg, Forgemasters*

Engineering Launch Week Commencing 13th March 2006

Enrichment Programme to date:

- Forgemasters Talk
- Forgemasters Visit
- Flight Simulator Visit
- Royal Engineers Activity Days
- Weather Vane Project
- Weather Station Project
- Enterprise Day in Engineering

**Our students have developed a keen, focussed attitude
and received much praise from our visiting experts.**