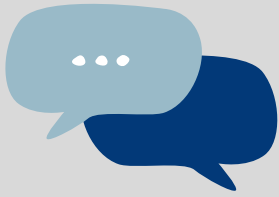


ENGINEERING EXTRAVAGANZA

The Engineering Extravaganza returned live in 2022. The first ones were held at the University of Hull on the 7th of July (East Yorkshire - EY) and at Sheffield Hallam University (South Yorkshire - SY) on the 11th of July. They are fantastic collaborative and hands-on events to help young people and their teachers understand more about the engineering opportunities available.

Teams of 15 students (in Years 8 and 9) from each region were invited to take part.



"Fab day, we all really enjoyed it, thanks. A big thanks also to the presenters, they were great. Can't wait until next year."

GOOLE ACADEMY

"The girls got a lot out of it and I'm certain it has inspired a lot of them to aspire to become engineers in the future. Thanks again for organising a great event."

NEWLAND SCHOOL FOR GIRLS



"Tasks were fun, entertaining, and inclusive."

"Excellent varied sessions, tutors were really engaging."

EVENT ORGANISATION

Five professional engineering institutions covering a broad range of engineering disciplines join forces to organise the Engineering Extravaganza including:

- The Institution of Chemical Engineers (IChemE)
- The Institution of Civil Engineers (ICE)
- The Institution of Engineering and Technology (IET)
- The Institute of Materials, Minerals & Mining (IOM3)
- The Institution of Mechanical Engineers (IMechE)

They are also joined in the planning and organisation by the host venues, STEM Learning, and the STEM Hub for North Midlands, South, and East Yorkshire. There was also an additional activity provider this year - Royal Academy of Engineering (RAEng)/Beverley High School.

As part of the events, students have the opportunity to:

- Find out more about different types of engineering.
- Understand more about engineering opportunities.
- Find out about career options in STEM subjects.
- Talks and hands-on activities from the professional engineering institutions and the host venue.

SCHOOLS INVOLVED

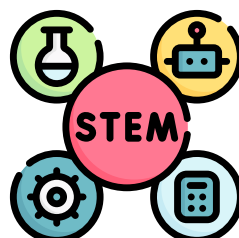
Over 60 students from East Yorkshire and 160 students from South Yorkshire schools attended including:

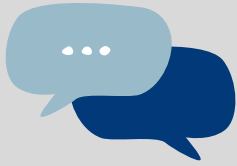
East Yorkshire:

- Beverley High School
- Goole Academy
- Newland School for Girls
- The Boulevard Academy
- The Snaith School

South Yorkshire:

- Firth Park Academy
- Hall Cross Academy
- High Storrs School
- King Ecgbert Academy
- King Edward VII School
- Outwood Academy Carlton
- Penistone Grammar School
- Rossington All Saints
- Sheffield Springs Academy
- Sirius Academy North
- Wath Academy
- Winterhill School





STUDENT FEEDBACK:

"Engineering is cool and has lots of different things in it. I enjoyed it a lot."

"The visit was a fun and a different experience. Not only did we get an insight into engineering, but I also got to see what it is like to be in a university and what to expect."

"Enjoyed learning the science behind the activities and working as a team and being resilient."

"It was a positive experience that helped me develop my understanding of engineering."

"I found the visit very fascinating because of all the different activities."

"I am inspired to look into engineering as a career pathway."

"Definitely found out about things that I previously had little knowledge of."

"I loved the hands-on aspects, and everyone was friendly and willing to help. It was great!"

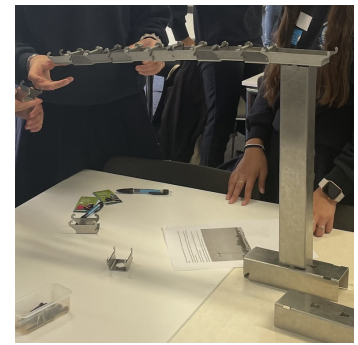
"Fun, informative, and fantastic overall."

"I got a great insight into all the fields within engineering. This was something I was looking forward to and it delivered."

FUTURE PLANS

Further events will take place in York in November 2022 and Bradford in March 2023.

ACTIVITIES



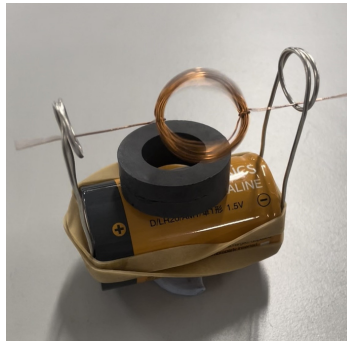
Crane Building



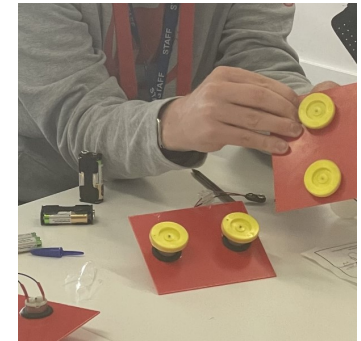
Engineering Tour (SY)



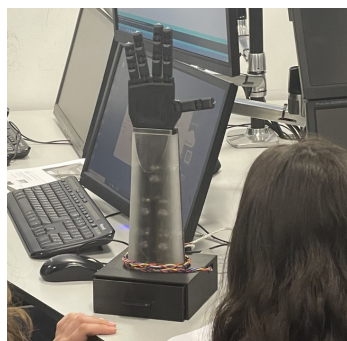
Hunt for Micrometeorites (SY)



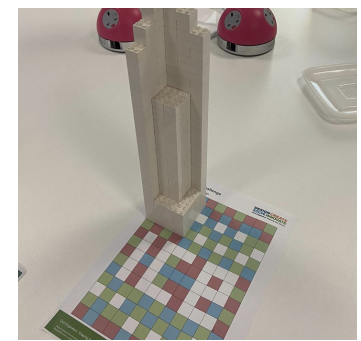
Motor Madness (SY)



Ping Pong Ball Launcher (EY)



Robotic Hand (EY)



Skyscraper Challenge



The Problem with Plastics (EY)



The Secret World of Gases (SY)