



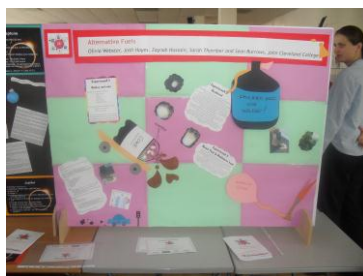
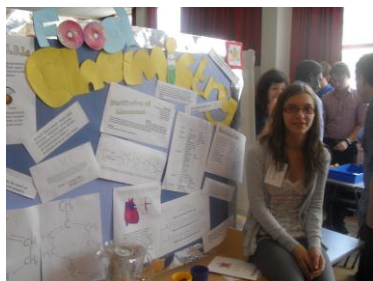
HINCKLEY SCIENCE FAIR 2011 FINAL REPORT

INTRODUCTION

The fourth Hinckley Science Fair took place on Wednesday 29th June. In total there were 124 different students presenting 48 different projects. Students came from 10 different schools to present their projects and take part in the hands on activities. The split across the age categories is shown below.



- 14-19** 18 projects presented by 36 students from John Cleveland College
- 11-14** 17 projects presented by 49 students from Mount Grace High School, Redmoor High School and Hastings High School.
- 9-11** 13 projects presented by 38 students from Sketchley Hill Primary School, Westfield Junior School, St Mary's Primary School, Hollier's Walk Primary School, All Saints Primary School and St Peters Catholic Primary School.



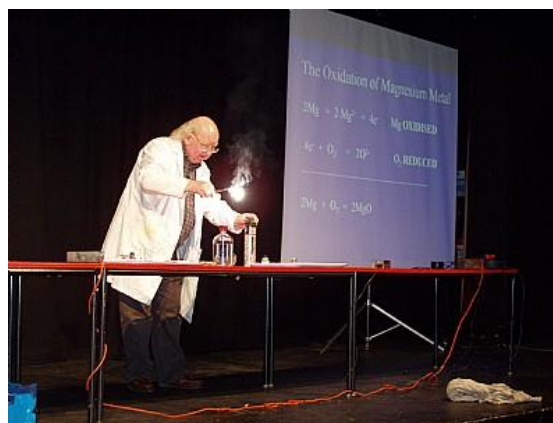
Many of the students from the participating primary schools had already presented their projects at Mount Grace to be selected to come up to the Hinckley Science Fair.

HANDS-ON ACTIVITIES

Thanks to the very kind sponsorship of the event we were able to offer lots of hands on activities. The activities were run by sixth form ambassadors from John Cleveland College and student volunteers from the three high schools. We also had a team from Professor Cullis's Lab at the University of Leicester using liquid nitrogen to make ice-cream! The attached programme shows the full range of activities on offer. The hit of the fair was the Batak machine to test people's reaction times.



The afternoon finished with an explosive demonstration from Brainiac Dr John Kilcoyne and his 'Chemistry Roadshow'. The show included lots of flashes and bangs (which resulted in a few screams from the younger member of the audience). With no obvious fear of the finger-depleting properties of liquid nitrogen or the explosive nature of various organic chemicals, it definitely kept the audience entertained.



The profile of the Hinckley Science Fair has grown each year and this year we were also joined by year 5 students who had been awarded a CREST Superstar award after completing 12 short science activities at an afterschool club at JCC.

AWARDS

In each age category there were two awards;

The best science project with an energy related theme sponsored by BIAPWS
(winning students received a certificate and £100 reward)

The best science project

(winning students received a certificate £100 reward for the students and £100 for the school to spend on extra-curricula science)

The projects with an energy related theme were judged by Paul McCann from BIAPWS. The best Primary project was judged by Dr John Kilcoyne with Fay Wilson judging the high school projects. Both the silver and gold CREST projects from JCC were judged by Chris Rowlands from the Society of Biology.

Best Project with an Energy Related Theme;

A Simple Solution to the Planets Pollution

Lucy Smith and Eleanor Maltby-Wehner, St Peter's Catholic Primary School

The Performance of an Electric-Powered Car

Ashley Ellis, Nathan Broomfield, Johnny Malin, Will Taylor, Redmoor High School

Biofuels

Cara Thompson, Billy Bigley, Simon Bray and Adam Bedford, John Cleveland College



Best Science Project;

Does Practice Make Perfect?

Ela Kirac, Anna Poulsen and Jordan Bosworth, All Saint's Primary School

The Water Quality of the Ashby Canal

Jack Denny, Mount Grace High School

The Knee

Peter Draper, John Cleveland College

PROJECTS

The Science Fair's main purpose is to enthuse and engage students in science but it also provides the students with a forum to showcase the work they have been completing this year. The primary schools use the science fair as a project for the students post the KS2 SATS. This year 3 of the primary schools were able to present their work at Mount Grace High School were the best two from each school were selected to come up to JCC.



The quality of the projects was outstanding and it was a very difficult decision. Since the Hinckley Science Fair started in 2008 the science clubs at high schools have greatly expanded and lots of the students competing this year will achieve either Bronze or Silver CREST awards. A few of the students from Redmoor High School had been lucky enough to present their work at the regional Big Bang Fair the day before. This year we should get 11 groups of students achieving Silver CREST awards at JCC and we have 6 groups of students who will continue to work towards their Gold CREST award next year. This year we even had students using the science fair as a venue to collect results for their current CREST project on taste.



FEEDBACK

‘What a brilliant day science fair was. I popped down to look for 5 or 10 minutes and ended up staying for more than an hour. Really nice to see kids so enthusiastic about learning’

‘It was really successful and the students from the High Schools clearly enjoyed taking part’

‘I really enjoyed completing my project, I learned lots about dinasoar.’

The fair would not have been possible without the generous sponsorship of the following organizations;

The Holmes Hines
Memorial Fund

AstraZeneca 
R & D CHARNWOOD

IOP
Institute of Physics

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