



EIT Hawke's Bay



Science and Technology Fair

1 - 2 September 2011

Full details and competitions found at...

**Hawke's Bay Regional Science & Technology Fair
website link through:**

www.nghs.school.nz



EIT HB REGIONAL SCIENCE & TECHNOLOGY FAIR 2011

31 March 2011

Dear Sir/Madam,

I am pleased to send you initial details of the 2011 EIT HB Regional Science & Technology Fair. **A full Information Pack** with all competition and entry details is available for students, teachers and parents to download from the HB Regional Science & Technology Fair website link through:

www.nghs.school.nz

The EIT HB Science & Technology Fair Committee has decided to run with the following programme for 2011.

Details are as follows:

- **Project Section. This is our premier event** and is focused on scientific investigations and technological process design work. NOTE: Projects that have musical content, involve crystal growing and those that feature some observational drawing are included in this section.
- **Group Competitions:**
 1. Massey University Serious Fun Science Quiz
 2. BP Technology Challenge
 3. Titration

The EIT HB Science & Technology Fair Committee made a significant change to the prize structure in the Project Section for 2010. This was extremely successful and will be continued in 2011. Please refer to **Projects** in this package for details of this.

Dates & Venues

• All entries	Due date	Wednesday	August 24
• BP Technology Challenge	EIT, Hawke's Bay	Thursday	September 1
• Massey University Science Quiz	Lindisfarne College	Thursday	September 1
• Project Judging	EIT, Hawke's Bay	Friday	September 2
• Titration	EIT, Hawke's Bay	Friday	September 2
• Prize Giving	EIT, Hawke's Bay	Wednesday	September 7

There is a \$30 administration fee for each school participating in the Fair. Please find attached a form to complete and return with your school's \$30 entry fee. The fee will be used to process all materials related to the Fair and increase the prize pool distributed to students. We appreciate prompt payment. I am looking forward to working with you all this year and seeing as much involvement from your students as possible.

Yours sincerely

Mike Duncan
Chairman
Hawke's Bay Science & Technology Fair Committee

Queries: Janet Mabin
HB Science & Technology Fair Committee
email: mabin@xtra.co.nz



EIT HB REGIONAL SCIENCE & TECHNOLOGY FAIR ACTIVITIES

PROJECTS

This section remains focused on scientific investigations and technological process design work. A science investigation in the project section is likely to be the presentation of a hypothesis followed by the gathering and analysis of data. A technology exhibit in the project section is likely to show prototyping of a solution to a problem or issue and subsequent development of the prototype. All projects must have an independent scientific investigation or technological design process.

Again there is no separate **Make a Pitch Producing Instrument, Crystal Growing or Observational Drawing** competition this year. If students wish to work in the field of music, crystallography or make use of observational drawing, their project will have to follow the process of scientific investigation or technological design and the project will be judged in the projects section. There are **special prizes** related to these areas. See "**Awards & Special Awards**" in the project section on the website.

Students are reminded that they should keep a written record of all work (Log Book) undertaken during their project and present it for judges with their project on judging day.

INFORMATION

Detailed information required for the project section can be downloaded from the:

HB Science & Technology Fair website link through:

www.nghs.school.nz

It includes:

- Categories and electronic entry details
- The Scientific Investigation & Technology Design Process
- Presentation of Entries
- Judging Criteria
- Awards
- Requirements for use of animals in Science Fair projects
- EIT Hawke's Bay Campus Map

CATEGORIES

These are age related and not topic related. The following categories apply.

- A) Yr 7 Science or Technology Project
- B) Yr 8 Science or Technology Project
- C) Yr 9 Science or Technology Project
- D) Yr 10 Science or Technology Project
- E) Yr 11-13 Science or Technology Project

IMPORTANT DATES

Entries for all categories due by	Wednesday	24 August	
Project Judging Day	Friday	2 September	
Prize Giving	Wednesday	7 September	7.00pm to 8.00pm

VENUE

Projects & Prize Giving Whare, EIT Hawke's Bay, Taradale



ENTRIES

All entries are to be made electronically. The electronic template can be found on the website for all sections of the fair.

www.nghs.school.nz

Entries to: ahills@nghs.school.nz

Entries due by: **Wednesday 24 August 2011.**

JUDGING DAY

All projects entered in the 2011 EIT HB Regional Science & Technology Fair will be set up and judged on Friday 2 September in the Whare, EIT Hawke's Bay Taradale. Students will need to be present for the judging and **will depart with their projects** at the end of the judging time with the exception of the prize winners who will leave their work for display on prize giving night. It is expected that all students will know if they have won a prize by 12pm on Friday 2nd.

PRIZES

The 2010 HB Regional Science & Technology Fair Committee reorganised the schedule of prizes. There was still sponsorship of special topic areas. The emphasis of the changes was to reward excellence in the science or technology projects. This was extremely successful and will continue in 2011.

Age group prizes fall under the following three categories and the number of prizes awarded in each category is at the discretion of the judging panel.

The prize values for each of the five age related categories are:

Outstanding	\$200
Highly Commended	\$150
Commended	\$100

The EIT Hawke's Bay Regional Science & Technology Fair continues to enjoy generous sponsorship from a wide variety of special interest groups. We are very appreciative of this. Full details of special awards and all prize information can be found on the website.

QUERIES

Mike Duncan

email: du@hastingsgirls.com

GROUP COMPETITIONS

INFORMATION

There are three competitions in this section of the EIT HB Regional Science & Technology Fair 2011.

1. Massey University Serious Fun Science Quiz
2. BP Technology Challenge
3. Titration

Brief details of these competitions can be found here, but detailed information can be downloaded from the HB Science & Technology Fair web site link through:

www.nghs.school.nz

It includes:

- Age Group , Team Size & Entry details
- Time, Venue & Length of the Competition
- Materials Required
- Judging
- Supervision
- Prizes

We are pleased to inform you that the HB Science & Technology Fair Committee reviewed the prize pool for these competitions and have increased it for 2011.

IMPORTANT DATES

- | | | |
|---------------------------------------|-----------|------------------|
| • Entries for all competitions due by | Wednesday | 24 August 2011 |
| • Science Quiz | Thursday | 1 September 2011 |
| • Technology Challenge | Thursday | 1 September 2011 |
| • Titration | Friday | 2 September 2011 |
| • Prize Giving | Wednesday | 7 September 2011 |

VENUES

- | | |
|---------------------------------------|---|
| • Technology Challenge & Prize Giving | Whare, EIT Hawke's Bay , Taradale |
| • Titration | Laboratories, EIT Hawke's Bay, Taradale |
| • Science Quiz | Auditorium, Lindisfarne College, Hastings |

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Entries due by: **Wednesday 24 August 2011.**

COMPETITION DETAILS



1. MASSEY UNIVERSITY SERIOUS FUN SCIENCE QUIZ

The field of scientific knowledge is extremely wide. Science Quizzes aim to be fun, to test the breadth of knowledge within schools and to celebrate the amazing diversity, variation and challenges that we face as scientists. This competition is run in 3 levels. There are 3 students to a team and a maximum of 2 teams from a school per level.

Level A - Year 7 & 8
Level B - Year 9 & 10
Level C - Year 11 & 12

2. BP TECHNOLOGY CHALLENGE

The BP Technology Challenge involves students solving a problem, by building a solution, which is then tested.

This competition is run in 3 levels. There are 2 students to a team and a maximum of 2 teams from a school per level.

Level A - Year 7 & 8
Level B - Year 9 & 10
Level C - Year 11, 12 & 13

3. TITRATION

An enjoyment of practical chemistry is the aim of this competition which involves the calculation of an unknown concentration of an acid or base.

Schools can enter up to 2 teams of three students.

Year 12 /13

QUERIES

Janet Mabin
2011 HB Regional Science & Technology Fair Committee

Email: mabin@xtra.co.nz



EIT HB REGIONAL SCIENCE & TECHNOLOGY FAIR 2011

SCHOOL ENTRY FORM

School _____

Email _____

Phone _____

Fax _____

Address

Payment of School Entry Fee \$30 can be made;

By Direct Credit

Hawke's Bay Regional Science & Technology Fair Bank Cheque Account at

Westpac: 030642 0734946 00

Reference – Your School Name

Or by cheque

Make cheques payable to:

Hawke's Bay Regional Science & Technology Fair

And return to: The Treasurer

Hawke's Bay Regional Science & Technology Fair

C/- 29 Coverdale Street

Onekawa

NAPIER 4110