

## ENTERING THE FAIR

### SECTIONS

Scientific Investigation	Technological Development
Scientific Journalism	Observational Drawing
Scientific Photography	Advertising Poster
Water Rocket Challenge	Robotics

Most sections are divided into three levels. 1. Years 7 & 8; 2. Years 9 & 10 3; Years 11 - 13

The Advertising Poster is for Levels 1 & 2 only. In the Scientific Investigation, Years 7 & 8, and 9 & 10 may be divided into separate levels or combined at the Committee's discretion, depending on entry numbers.

### IMPORTANT STEPS IN SUBMITTING ENTRIES:

1. Decide what you will investigate for your Scientific or Technological project. Entries can be individual or in pairs only
2. Establish what class it is and decide on an entry form to use. Fill in the Entry Form and return it by Wednesday 4th July to the address below
3. All Journalism articles, Photographs, Drawings and Posters must be accompanied by an official entry form and be sent to arrive at the address below by Wednesday 4th July
4. Water Rocket entries close with all other sections, by Wednesday 4th July

**Entries to** T.E.Stowers  
WITT Taranaki Science and Technology Fair  
51a Maratahu Street  
Westown  
New Plymouth, 4310  
Email address – taranakiscience@gmail.com

LATE ENTRIES WILL BE ACCEPTED FOR DISPLAY BUT WILL NOT BE JUDGED

### PROGRAMME

<b>Wednesday 4th July</b>	Entries close for all sections Exhibits in Advertising Poster, Journalism, Observational Drawing and Photography sections handed in for Judging
<b>Monday 6th August</b>	Setting up student display boards and projects, Noon - 4.30 pm
<b>Tuesday 7th August</b>	Setting up student display boards and projects., 8.00 - 9.15 am Water rocket registration and competition, 9.00 – 10.30 am Robotics registration and competition, 9.00 – 10.30 am Judging, 9.30 am - Noon Open to Public - 6.00 - 9.00 pm
<b>Wednesday 8th August</b>	Open to Schools and Public, 9.00 am - 5.00 pm Year 10 Quiz, 12.45 pm in La Mer Lounge Dignitaries' Function, 5.30 - 7.00 pm Removal of displays, 6.30 - 7.00 pm Prizegiving. 7.00 - 8.00 pm

## WITT TARANAKI SCIENCE & TECHNOLOGY FAIR ENTRY DETAILS for STUDENTS

6<sup>th</sup> to 8<sup>th</sup> August 2018

Pukekura Function Centre  
New Plymouth



### TOPIC DETAILS FOR 2018

**SCIENTIFIC JOURNALISM - Topic** - "What changes, both by individuals and society, do you think are necessary to achieve zero waste by 2021 in the Taranaki region?"

Write an article that discusses the topic above. The article should be 500 - 3000 words. Your Name, Year Level and School should be written on the top of the first page of your work. Please number pages.

**SCIENTIFIC PHOTOGRAPHY - Topic** - "Aspects of the Water Cycle."

Please ensure that photographs submitted have a reasonable resolution and are printed on photographic paper. Low resolution, and those printed on non-photographic paper will not be accepted for judging. You will need to provide evidence of where, when and on what device your photo was taken, as well as how it relates to the topic. Please mount that information and your photo on an A4 card, together with a white sticky label attached to the front on the lower right side with Your Name, Year Level and School. **Photos to be no larger than A5.**

**OBSERVATIONAL DRAWINGS - Topic** - "Flowers"

Drawings must be done in pencil on A4 paper, with the specimen's name in the lower left corner. It should be a scientific observational drawing, drawn directly from the observed object or objects with no shading. Dots and lines are allowed. A scale must be shown. The drawing should be mounted on BLACK paper 330 x 240 mm. Your Name, Year Level and School should be on a white sticky label and attached to the front of the mounting on the **lower right side**. Only ONE entry per person.

**ADVERTISING POSTER THEME** - "Riparian planting"

Use the above theme to advertise this year's fair. The A4 sized poster must include "WITT Taranaki Science & Technology Fair" and the Location and Date. It must be **hand-drawn**. Posters produced with the aid of a computer will not be accepted. Your Name, Year Level and School must be on a white sticky label attached to the front of the poster on the lower right side and please put this inside a blank 20mm margin on the bottom of the poster. **Posters to be unmounted.**

**WATER ROCKET CHALLENGE:** Make a water rocket using plastic fizzy drink bottle(s). Launch it on Tuesday 8th August. Entries for Rockets close on Wednesday 4th July.

**ROBOTICS** – Details available at [www.focus-consultancy.co.nz](http://www.focus-consultancy.co.nz)

**WEBSITE:** For more information, ideas for projects visit the Focus Consultancy site: [www.focus-consultancy.co.nz](http://www.focus-consultancy.co.nz). You can also download entry forms from there.

**ENTRY FORMS:** From your Science Teacher. You can also download entry forms from our Facebook page.

PRIZES\_(Subject to confirmation)

#### SCIENTIFIC INVESTIGATION, & TECHNOLOGICAL DEVELOPMENT:

*1st Prize \$150, 2nd Prize \$80, Merit \$20*

*(Each of these winners is eligible for the WITT Science and Technology Best in Fair Prize. - Good senior exhibitors in the above categories may be selected to receive a Scholarship of up to \$1000 to be used for tertiary study in an area of Science or Technology)*

<b>BEST IN FAIR :</b>	<i>WITT Trophy and \$500 cash.</i>
<b>RUNNER UP :</b>	<i>Dow Agro Sciences Trophy and \$300 cash.</i>
<b>BEST PROJECT Years 11 - 13:</b>	<i>Logicamms Trophy and \$125 cash.</i>
<b>BEST PROJECT Year 9 &amp; 10:</b>	<i>Methanex NZ Ltd Trophy and \$125 cash.</i>
<b>BEST PROJECT Year 7 &amp; 8:</b>	<i>Fonterra Trophy and \$125 cash.</i>
<b>SPECIAL PRIZES:</b>	<i>As specified by Sponsors. (See Separate Prize list)</i>
<b>OBSERVATIONAL DRAWING</b>	<i>1st Prize \$50, 2nd Prize \$30, Merit \$20</i>
<b>SCIENTIFIC JOURNALISM</b>	<i>1st Prize \$50, 2nd Prize \$30, Merit \$20</i>
<b>POSTERS, PHOTOGRAPHY, ROCKETS, ROBOTICS</b>	<i>1st Prize \$40, 2nd Prize \$25, Merit \$15</i>

#### **RULES AND CONDITIONS FOR EXHIBITORS**

**Read this information carefully and keep this page for reference.**

#### **RULES FOR PROJECTS:**

- CONSTRUCTION:** Projects must be durable, safe, self-contained, complete, stable unit with no part of it attached to the floor, wall or table. and **not** exceed the maximum size. The base of the project may not exceed 75 cm deep by 120 cm wide and 1.5 m high. **Oversized projects will only be accepted in the Technological Development category.** Moveable parts must be firmly attached. Projects must also be designed to be safe from any interference from members of the public. It is the Exhibitor's responsibility to ensure that all valuable parts are securely attached or able to be removed by the Exhibitor for safekeeping when the project is left unattended.
- USE OF MAINS ELECTRICITY:** Any project requiring mains electricity must have a suitable cord 5 metres long with a durable 3 pin plug correctly attached. All parts involving mains electricity must comply with the relevant electrical regulations. The wiring should be carried out by a registered electrician. Exhibitors using mains electricity for high voltage equipment must use an RCD or a suitable isolating transformer to supply electricity to their project to give a greater margin of safety.
- ELECTRICAL SAFETY:** Voltages over 50 volts must have all conductors (wires and switches) completely and securely enclosed by non-conducting materials to prevent any possibility of an observer receiving an electrical shock. Such projects must be safe at all times, which means they must be able to be disconnected or locked when unattended. Nails, tacks, etc must not be used to secure wires because of the possibility of shorting and fire. Correct procedures for securing wires must be observed.
- FIRE SAFETY:** Heating elements must be mounted on a suitable non-combustible support so that there is no possibility of fire. Lamps must be well ventilated to avoid heat build-up and only non-combustible materials used near the lamp. No gas supply is available. An Exhibitor wishing to use gas must seek written permission from the Fair Committee to use any supply of gas. Gas is to be supplied by the exhibitor if approval is given. Please supply full details of the proposed supply: type of gas, size and age of cylinder, use of the gas.

- RADIATION:** Any radio transmitter in working order must comply with the relevant radio transmitting regulations and be licensed. Microwave and high frequency radiation must be safe and have a warning sign. Any damaging radiation (e.g. UV light) must be shielded so viewers could not be harmed. Radioactive materials are permitted only when written permission has been gained from the Fair Committee and they must comply with the relevant regulations.
- GENERAL SAFETY:** Explosives, including explosive gases, must not be exhibited. Dangerous chemicals (including strong alkalis and acids) are not to be used in any project (if in doubt contact the Science and Technology Fair Committee). All projects using liquids of any kind must stand in a leak proof tray. Exhibitors must have sponges, cloths etc to wipe up and remove any spills. No direct water supply is available. Should your project require water you will need to design it so it has its own reservoir. No large pools. It is the responsibility of the Exhibitor to ensure that the area immediately surrounding their project is kept clean, dry and tidy at all times.
- CARE OF ORGANISMS:** Projects must comply with the legal requirements found at <http://www.nzase.org.nz/ethics.html> No live animals, plants or microorganisms should be present in projects at the Fair. Please use photographs of your results.
- GENERAL RULES:** If the judges consider that an adequate standard has not been reached, the Science and Technology Fair Committee reserves the right to withhold any prizes and will not display the project. The Committee also reserves the right to group Entry forms where numbers are insufficient in particular classes. The Judges and Committee reserve the right to withdraw prizes and promote others in the class if rules are discovered to have been broken. Exhibitors which exceed the maximum group number (i.e. two) will be accepted for DISPLAY ONLY. No judging will be done and no prizes will be awarded for such projects. The Committee's decision in all matters is final. **THE COMMITTEE SHALL NOT BE HELD RESPONSIBLE FOR ANY LOSS OR DAMAGES TO PROJECTS, ALTHOUGH ALL CARE WILL BE TAKEN.** The Fair will be open to the public during which time exhibitors need not be present.

#### **CONDITIONS OF ENTRY**

Exhibitors should complete the entry form and have it posted to arrive by the due date, Wednesday 5th July 2017.

- ALL PROJECTS MUST BE THE WORK OF THE EXHIBITOR(S) ONLY.** Advice may be sought from any source and special components may be purchased. The major constructions must be the exhibitor's. The judges will give credit for simplicity of design and ingenuity. **ALL ASSISTANCE YOU RECEIVE MUST BE CLEARLY ACKNOWLEDGED ON THE ENTRY FORM.**
- Exhibitors may set up their projects on Monday 6th August from Noon to 4.30 pm or Tuesday 7th August from 8.00 to 9.15 am.
- Judging will take place from 9.30 am – 12.00 pm on Tuesday 8th August.
- Because sponsors are invited to view the projects until 6.30 pm on Wednesday 9th August, no project may be removed in total or in part before that time without Committee approval.
- Projects must be removed between 6.30 and 7.00 pm, before prizegiving.
- An project which has been awarded a prize may not be re-entered in any subsequent Science & Technology Fair unless there has been considerable further development of it.
- Late Entries will be accepted for display only but will not be judged.
- There may be some variation in the prizes as they are awarded at the Sponsor's discretion.