



Volunteer Request and Information

South West Science and Engineering Challenge Thursday, 2 June 2016

South West Science and Engineering Discovery Day Friday, 3 June 2016

What is it ?

The **Challenge** is an interschool competition for **Year 9 & 10** students that is designed to encourage the students to take the requisite subject selections in high school to be able to pursue a career in a technological field.

The **Discovery Day** is a like the Challenge but aimed at **Year 5 & 6** students to make them aware of the role of science and engineering in the world around us.

Both competitions involve eight schools each bringing 32 students for a whole day of activities. There will be a total of 256 students participating each day.

Where ? South West Sports Centre, 1 Rotary Avenue, Bunbury WA 6230.

What does a volunteer do ?

The competition is managed by a team from the University of Newcastle and there are typically eight activities running simultaneously. Each of these eight activities requires three volunteers to run, manage and judge the tasks. You don't need to be an Engineer or Scientist to volunteer, simply common sense and a sense of humour will be enough for you to have a great day.

Refer to the attached notes to select the activity that you would like to do. Places are allotted on a first come first served basis. Some activities are whole day, others half day so students can select one whole day or two half day activities.

What sort of volunteers are there ?

There are two types of volunteer.

The first is an activity **Supervisor**, they manage the activity, brief the students and Assistants and act as the judge. Supervisors need to undertake a training session which will be held on the afternoon/evening of Wednesday 1st June 2016.

The second type of volunteer is an **Assistant**. They help manage the activity, assist the Supervisor and generally do whatever is needed on the day. Training, like the Supervisors, is advantageous but not essential as there will be time to have a brief training session in the morning by the Supervisor.

How long do I need to be there ?

In Bunbury we need to set up the equipment each morning and take down again at the end of the day. The preliminary schedule is overleaf.

How much does it cost ?

It is free to be a volunteer and we even provide morning tea and lunch !



Preliminary Volunteer Timetable

Date	Time	Activity	Who
01/06/16	4:00pm to 7:00pm	Supervisor training. Timing for specific activities will be advised.	Supervisors essential, Assistants optional.
02/06/16	7:30am to 9:00am	Set up equipment for the Challenge. Training for Assistants	All volunteers for the Challenge
02/06/16	9:00am to 2:30pm	The Challenge competition. Opening speech by the Honourable Adelle Farina MLA. at 9:15am Award presentation by *****	All volunteers for the Challenge.
02/06/16	2:30pm to 3:30pm	Take down equipment and place in overnight store.	All volunteers for the Challenge.
03/06/16	7:30am to 9:00am	Set up equipment for the Discovery Day. Training for Assistants	All volunteers for the Discovery Day.
03/06/16	9:00am to 2:30pm	The Discovery Day competition. Opening speech by. Award presentation by *****	All volunteers for the Discovery Day.
03/06/16	2:30pm to 3:30pm	Take down equipment and pack for transportation	All volunteers for the Discovery Day.

To register your interest and reserve your activity please contact :

Steve Woodhouse email : swoodhouse@wml.com.au
mob : 0427 959929

The Rotary Club of Bunbury Leschenault



Activity Schedule

Morning session	Lunch*	Afternoon session	Colour group
ElectraCity	11:30am-12:00pm for everyone	Grasping at Straws	Purple
Grasping at Straws	11:30am-12:00pm for everyone	ElectraCity	Blue
Helter Skelter Shelter	11:30am-12:00pm for everyone	Stringways	Green
Stringways	11:30am-12:00pm for everyone	Helter Skelter Shelter	Yellow
Catapult	11:30am-12:00pm for everyone	Catapult	Orange
Flat-Pack	11:30am-12:00pm for everyone	Flat-Pack	Red
Mission to Mars	11:30am-12:00pm for everyone	Mission to Mars	Pink
Bridge	11:30am-12:00pm for everyone	Bridge	Silver

A BRIEF DESCRIPTION OF CHALLENGE ACTIVITIES

Duration & name of activity		Overview
Half Day	ElectraCITY	Students will be given a large board and different quality cables and are required to make a network to provide power to all the loads on the board.
Half Day	Grasping at Straws	Students are required to design, build and use a 'bionic hand' built from PVC pipe, string, straws, and timber coffee stirrers. Each group will then assess the effectiveness of their construction in several tests.
Half Day	Helter Skelter Shelter	Students construct a tall earthquake-proof tower using only basic materials, sound engineering principles, and ingenuity. At the end of the session the towers are put to the test on an earthquake simulator.
Half Day	Stringways	The aim of this half-day activity is to develop rail networks that convey trains in the most efficient way possible. The higher the efficiency of linkage (i.e. minimum travel distance) the more points your team earns.
Full Day	Catapult	This activity involves constructing a catapult from timber dowel, packing tape and rubber bands. Points are awarded for the catapult's ability to propel a tennis ball over distance and hit a target.
Full Day	Flat-Pack	Students need to design and build a model table and chair for a well-known furniture company. They must both be able to support the weight of Ginger and Spot, the family pets. It is important, however, that the furniture is cost effective to generate a profit when it is put into production.
Full Day	Mission to Mars	This activity requires students to construct a vehicle to quickly transverse an undulating surface. Students will use rubber bands for the suspension system.
Full Day	Bridge	Build a small bridge from balsa, pins, tape, paddle pop sticks etc. Points are awarded for strength and load-carrying capacity (tested with dynamic loads).



Science & Engineering Challenge

Thursday 2nd June 2016

Activity	Name	email
Electricity		
Supervisor		
Assistant		
Assistant		
Grasping at Straws		
Supervisor		
Assistant		
Assistant		
Helter Skelter Shelter		
Supervisor		
Assistant		
Assistant		
Stringways		
Supervisor		
Assistant		
Assistant		
Catapult		
Supervisor		
Assistant		
Assistant		
Flat Pack		
Supervisor		
Assistant		
Assistant		
Mission to Mars		
Supervisor		
Assistant		
Assistant		
Bridge		
Supervisor		
Assistant		
Assistant		



Discovery Day

Friday 3rd June 2016

Activity	Name	email
Electricity		
Supervisor		
Assistant		
Assistant		
Grasping at Straws		
Supervisor		
Assistant		
Assistant		
Helter Skelter Shelter		
Supervisor		
Assistant		
Assistant		
Stringways		
Supervisor		
Assistant		
Assistant		
Catapult		
Supervisor		
Assistant		
Assistant		
Flat Pack		
Supervisor		
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Mission to Mars		
Supervisor		
Assistant		
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Assistant		
Assistant		