



Eureka! Trust



February 2017

The Time Has Come...!

SIR PAUL CALLAGHAN EUREKA! AWARDS 2017

2017 is a big year for the Sir Paul Callaghan Eureka! Awards. We are working to develop exciting new opportunities for our Alumni - to find out more about our new internship programme, turn to page 2. We would love to see you get involved!

The Sir Paul Callaghan Eureka! Awards is a science communication competition. You are asked to identify an issue facing New Zealand, and create a compelling presentation detailing how science and technology can be used to solve that issue. More details can be found on our website: <https://www.eureka.org.nz/>.

Eureka! is different from all other science competitions. We're not just interested in how well you understand your chosen issue; we're also looking for people who can come up with creative solutions and sell these convincingly.

As such, the competition is not limited to science students; any undergraduate or Honours student can enter Eureka!, regardless of degree background.

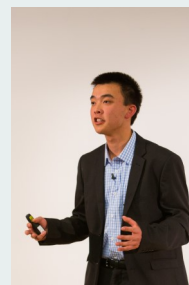
Eureka! entrants enjoy a wide range of benefits:

- the opportunity to develop their public speaking skills, and
- prize money of up to \$10 000 and scholarships worth up to \$5,000 on top.

And the relationship does not end when the competition does - our Alumni enjoy many exclusive opportunities, which you can read about on page 2. If you'd like to read about what participation in the competition has meant to some of our Alumni, turn to page 3.

We look forward to meeting you at our regional events this winter.

Premier Eureka Award
Winner Andrew Tang



VICE-REGAL PATRONAGE

The Governor-General, H.E. Rt Hon Dame Patsy Reddy, has advised the Rotary Club of Wellington Eureka! Trust that she has accepted our invitation to be our Patron for the duration of her term in office. Dame Patsy continues patronage which was initiated during the term of office of the Rt Hon Sir Jerry Mateparae. We will be keeping Dame Patsy and Government House fully aware of our activities and have already submitted a request for Her Excellency to host our Sir Paul Callaghan Eureka Awards! Dinner at Government House in Wellington on 7 September.

SIR PAUL CALLAGHAN MEDAL FOR AN OUTSTANDING TEACHER

2017 is the first year in which we will award a special prize for a special teacher who imparts the importance of passionate communication about the value of STEM to New Zealand.



Sir Paul Callaghan and the
Rt Hon Dame Patsy Reddy

Sylvie shows the value of her Eureka! connections

Sylvie English was a Sir Paul Callaghan Eureka! Awards finalist in 2012 as a third year Biomedical Science undergraduate at Victoria University of Wellington. Her presentation, entitled "Male Reversible Contraception", was a bright signal of her science passion. On graduation from VUW Sylvie went to the US to continue her studies and to complete her post-grad qualifications. She is now employed as Research Manager at the Columbia University Department of Medical Bioinformatics where she and her team have been building several tools in relation to a disease called endometriosis, affecting 1 in every 10 women globally. "We have been collaborating with disease specialists in New Zealand who have suggested making the mobile app component of the toolset available to health care practitioners across the country." The Eureka! team has been able to put Sylvia and her US colleagues together with several New Zealand entities and people who are interested in collaboration, demonstrating the increasing value of the network we have been building for Alumni and for New Zealand.

EUREKA! PARTNERS WITH CALLAGHAN INNOVATION TO OFFER INTERNSHIPS AND FELLOWSHIPS

In 2017, Eureka! will be offering an exciting new personal development opportunity for our undergraduate Alumni (Eureka! finalists and scholarship winners).

We have teamed up with Callaghan Innovation to offer 10 internships specifically for Eureka! Alumni each year.

These internships will give Alumni the opportunity to work at a private company that has a significant research and development programme, and will pay \$18 per hour for up to 400 hours of work. For those of you who are nearing the end of your studies, we are also working to develop a fellowship programme. These fellowships would fund you to undertake your Masters or PhD whilst working at a private company.

Callaghan Innovation's decision to partner with Eureka! to offer these exclusive internships and fellowships illustrates just how valuable being a member of the Alumni group can be for your career and personal development.

Beyond the internship programme, our Alumni enjoy many other benefits, such as regular networking opportunities and the chance to participate in Government panels.

We are working to develop further programmes that enhance the value of membership to our Alumni group.

So, if you would be keen to be involved with an illustrious group of young people and take advantage of these benefits, start your journey by signing up for the Sir Paul Callaghan Eureka! Awards today!

CallaghanInnovation



2016 Eureka Finalists at the Awards Dinner

A VIRTUAL REGION

The Virtual Region being introduced in 2017 means no student will be excluded from participation in the Sir Paul Callaghan Eureka! Awards Competition and the prizes, scholarships and NCEA Achievement Credits available by virtue of distance or unavoidable clash.

The rules around participating in the Virtual Region rather than a Geographic Region are designed to be fair to all contestants while at the same time ensuring there are Geographic Region based competitions where students can demonstrate their passion and eloquence to a live audience before being selected to participate in the National Finals.

So, to be eligible, a student must live more than 75km from the nearest university centre (Auckland, Hamilton, Palmerston North, Wellington, Christchurch and Dunedin) and must establish their desire to participate in the Virtual Region when they enter.

They must also record a video of their 6-minute summary of the presentation they would make at the National Finals if selected. The video must be recorded in a single take (i.e. it can't be edited) in front of an audience and following the rules set out on the www.eureka.org.nz website.

The video must be up-loaded to the on-line platform set up by the Eureka! Trust by the closing date.

NOTE:

A student who has an unavoidable clash as a result of another activity which prevents them presenting their summary to a Geographic Region competition may be eligible for entry via the Virtual Region.

For unavoidable clash entry to be approved the student will need to submit a signed certificate from a teacher or other responsible adult setting out the circumstances and reasons for the special dispensation from the normal rules.

EUREKA! STEM VIDEO COMPETITION

The Eureka ! STEM Video competition presents an opportunity for students from Year 7-13 to work individually or in groups to show their creative flair and ability to tell stories about the value of STEM in their community using video.

The Eureka! STEM Video competitions will be run in conjunction with the NIWA National Science Fairs.

Based on the very successful Junior Eureka! Programme the students will be required to identify a specific application of STEM in their community (or a possible application), and the value that application delivers to their community.

Having done their research their task is to tell that story using new technologies readily available to them at school.

They will create a story board, shooting scripts, editing plans and finally a finished movie.

The movies will be screened at the National Science and Technology Fairs where judges will choose the best and award the prizes.

All schools have access to the internet and have the resources the students will need to create compelling visual stories highlighting what New Zealand and its people gain from science and technology.

A dedicated on-line workshop including valuable resources and teaching is being prepared for the Eureka! Trust by the University of Otago Centre for Science Communication.

The time has certainly come!

RCW EUREKA! TRUST

Established in 2013 to organise and develop the Eureka! Programme of events.

Purpose Statement

"To increase young New Zealanders' interest in STEM subjects and to foster young leaders who, through their knowledge of science, technology, engineering or mathematics, persuasive communication skills and their entrepreneurial vision, will make "New Zealand, the most beautiful, stimulating and exciting place in the world in which to live".



ALEXIA HILBERTIDOU (2016)

"I would thoroughly recommend the Sir Paul Callaghan Eureka! Awards to any student. The Sir Paul Callaghan Eureka! Awards was a fantastic opportunity where I met other passionate like-minded youth and spread awareness about the importance of diversity in STEM (Science, Technology, Engineering, and Maths) fields. The Eureka! awards were exciting, inspiring, challenging, and just plain awesome!"

RACHAEL WILTSHIRE (2014)

"My association with the Awards has provided me with a number of opportunities, including the chance to participate in a Ministry of Education reference group and to Chair the Alumni Trust. Beyond the obvious financial prizes and networking opportunities, I think it is this ongoing commitment to alumni that makes the Eureka! programme so valuable and unique. No other programme that I am aware of provides continuing development opportunities - and lifelong friendships - to students who have completed the programme."



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