



Biology Educators' Association of New Zealand Te Rōpū Whakaako Koiora o Aotearoa

October 2016 Newsletter

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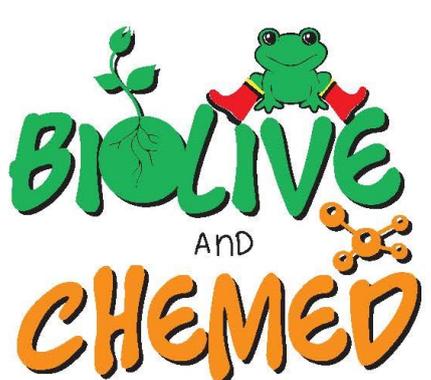
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MAURICE WILKINS CENTRE (MWC) RE-SOURCES

We have been extremely fortunate that the MWC professional development series has been offered in the main centres over a number of years. A reminder that all the presentations are freely available from their website <http://www.mauricewilkinscentre.org/sub-pages/education-careers/science-for-schools/biology-teacher-resources.aspx>

These presentations cover diverse topics such as Assisted reproductive technologies: Where to draw the line, Processes leading to Speciation, Blood pressure and Glucose homeostasis and the effects of disrupting it. If you haven't already visited their website, we highly recommend it. Looking to the future, Professor Peter Sheppard has indicated that they are interested in providing more workshops and would like to know what our members would most like. Keep in mind that MWC research focus is Cancer, Diabetes, Metabolic diseases and Infections = Human health. Let your regional rep know if you feel it would be helpful to have an earlier workshop re-presented in your region or if you have a request for something else.



**BIOLIVE
AND
CHEMED
CONFERENCE**

10th -12th JULY 2017

ST PETER'S SCHOOL, CAMBRIDGE, WAIKATO

Mark July 10th - 12th onto your 2017 diary to attend the upcoming biennial conference for Biology and Chemistry educators.

Following the success of 2015, Biolive and ChemED have decided to join forces once more. The 2017 conference will be hosted at St Peter's School, Cambridge running from mid-morning Monday to Wednesday afternoon.

Start thinking and planning for your workshop or seminar. The call for submissions will open in the new year and close March 31st. We will seek to cover a broad range of opportunities from cutting-edge Science, classroom practice, IT support and pedagogy; along with great social events and fun.

The conference dinner will take place in Hamilton (transport provided) and will include plenty of dancing to a live band! Affordable accommodation at St Peter's will be available during registration.

Questions?
admin@biolivechemed.co.nz | 021 0247 7554

See you all in the Waikato for 2017!

www.biolivechemed.co.nz

As in previous years BEANZ will again be offering scholarships for members to attend this conference. Look out for details early 2017. Please pass on this newsletter to chemistry staff so they can also diary the conference dates.

BEANZ WORKSHOP

Exploring the theme: Who is a New Zealander?

Lisa Matisoo-Smith has been working with student genomes in a pilot project this year. Along with a Dunedin teacher she has developed resources that could be used at the junior or the senior level. BEANZ regional reps worked further to develop these resources. Our workshop in 2016 will be based around this work and will incorporate :

- cross-curricular ideas within socio- scientific issues
- a culturally responsive environment
- more e-learning tools
- giving worthwhile feedback
- some up-skilling in “variation” concepts for non-biologists

The workshop does not represent a unit of work ready to go, rather a selection of ideas, resources and pedagogy that can be used and adapted for different curriculum levels and purposes.

For those who are BEANZ members this workshop is free. For others the cost is \$20 per school.



BEANZ.ORG.NZ Website Update Members Only Area

Ben Himme has been working hard behind the scenes of our new website preparing the members only area. We know that many of you are keen to access this and have been a little frustrated that you, or your school, do not have a username or password yet for this. We appreciate your patience as Ben ensures everything is working properly before this area is opened to members. As soon as it is, BEANZ will be in contact – in the first instance via the email contact we have from your registration with NZASE.

BEANZ WORKSHOP DATES

Region	Date and Time	Venue	Contact
Northland	22 November 10am – 2pm	Kerikeri High School	Mike Stone m.stone@auckland.ac.nz
Auckland	1 December 1 – 4pm	St Cuthbert's College	Mike Stone m.stone@auckland.ac.nz
Bay of Plenty/ Waikato	10 November 9am – 12.30pm	Otumoetai College	Jean Grattan jgrattan@otc.school.nz
Hawkes Bay	11 November 9am – 2.30pm	Napier Girls' High School	Marcia Hengst mhengst@nghs.school.nz
Manawatu-Wanganui	1 December From 12.30pm	Palmerston Girls' High School	Chris Corser c.corser@pnghs.school.nz
Wellington	25 November		Sue Weich sweich@chilton.school.nz
Nelson	30 November 2 – 4.30pm	Nelson College for Girls	Sarah Johns sarah.johns@ncg.school.nz
West Coast	9 th November 10am – 3pm	Buller High School	Erica Jar erica.jar@buller.ac.nz
Canterbury	24 November 1 – 4pm	Upper Riccarton Library	Matt Easterbrook est@linwoodcollege.school.nz
Otago	22 November 9am-3pm	Logan Park High School	Dick Pirie rsp@lphs.school.nz
Southland	17 November 1.30-4.30pm	Southland Girls High School	Lee Pirini lee.pirini@southlandgirls.school.nz



2016 NZIBO studies are underway! The August NZIBO entrance exam attracted 350 motivated students. I hope you saw and kept a copy of the 2016 exam. This year's entrance exam profiled current NZ research including; Dr Siouxsie Wiles and Dr Heather Hendrickson's work on battling antibiotic resistance, NIWA scientists' designer homes for baby snapper in the Firth of Thames, malarial transmission in Bellbirds and the return to NZ of the Southern Right whales. We hope you enjoyed this exam!

160 NZ students are now working through the online Pearson Mastering Biology interactive tutorial program using Campbell and Reese Biology text as their guide. New this year, is the support from the wonderful Education Perfect team - hosting the assignments due regularly leading to the February camp selection exam.

The current focus for our students is, however, NCEA and external exams. The students are all on stand-down, for 8 weeks while working towards these qualifications. Study then begins in earnest over the summer school break to compete for a place on the Easter term holidays Team Selection Camp.

Why not join your students!! Two teacher scholarships are up for grabs again this season. One for laboratory skills hosted by Waikato University and a second for field work at Massey Albany and Auckland School of Medical Sciences. Come along and experience parts of the ten day residential Easter camp enjoyed by the students. Write a letter of application to apply - the lucky teachers will find airline tickets in their inbox! c/- Dr Angela Sharples, sharples@farmside.co.nz



IT IDEAS Kaizena .com

If students submit work digitally you can use kaizena (kaizena.com) to record voice comments directly on their work. This makes giving feedback so much quicker than writing feedback their papers and you can give much richer feedback in preparation for those essay style internal assessments.

Biology Educators' Association of New Zealand Te Rōpū Whakaako Koiora o Aotearoa

A Standing Committee of the New Zealand Association of Science Educators

Executive Position	Name	Executive Position	Name
President (NZASE Rep)	Sharyn Varcoe	Curriculum Support Team	Terry Burrell
Senior Vice President	Kate Rice		Penny Daddy
Junior Vice President	Matt Easterbrook		Jo Hurst
Treasurer	Peter Sutton	Primary Biology Education	Hazel McIntosh
Secretary	Helen Mora	Tertiary Biology Education	Hamish Spencer
Publications Co-ordinator	Holly Brooshooft	Assessment Project	Bill van den Ende
Website	Ben Himme	Science Facilitators	Mikhal Stone
		Regional Rep. Coordinator	Sharyn Varcoe

ANZCCART QAAM'd ASSESSMENT RESOURCES

ANZCCART is an independent body which was established to provide a focus for consideration of the scientific, ethical and social issues associated with the use of animals in research and teaching. Such use is often the subject of lively debate.

ANZCCART (NZ) has supported the development of four NCEA assessment tasks that have received the Quality Assured Assessment materials trade mark (QAAM) from the NZQA for NCEA Achievement Standards (Biology 1.2, 2.2, and 3.2), which integrates biological knowledge to develop an informed response to a socio-scientific issue. The four resources are:

- *Animal research: What's a life worth?* Biology 1.2 Report on a biological issue
- *Animal research: The best thing for human medicine and animals?* Biology 2.2 Analyse the biological validity of information presented to the public
- *Animal research: The ethics of using animals for research and teaching in NZ* – Biology 3.2 Integrate biological knowledge to develop an informed response to a socio-scientific issue
- *Animal research: Predator proof fences* – Biology 3.2 Integrate biological knowledge to develop an informed response to a socio-scientific issue

Penny Daddy

Regional Rep for Auckland, Curriculum Committee
St Cuthbert's College



I am passionate about teaching Science and as I was incredibly lucky with teaching mentors in my early days, I am keen to pass on this knowledge and experience to those interested in making Science fun and accessible to students. Currently I am Deputy HOD Science at St Cuthbert's College a private girls College in Epsom, Auckland. I teach Biology, Science and run the trees for survival program. Being interested in conservation, teaching and travel I am lucky to be able to combine all three and take school trips on biology adventures to exotic locations such as the Amazon.

I love walking in the NZ bush and have two grown up kids, a cat, two dogs and a husband, who I try to encourage to come with me, with varying degrees of success

Matt Easterbrook

Junior Vice President / Regional Rep for Canterbury
Linwood College



I have been teaching since 2003, starting my career at Wellington High School. I then worked in the Cook Islands as a Teaching and Learning Advisor for three years, before returning to my home town of Christchurch. I am currently the Assistant Head of Science at Linwood College and really enjoy teaching Science and Biology.

I have been the BEANZ Canterbury Rep for two years and have appreciated being part of a professional group supporting Biology teachers. When I am not at school I love spending time with my wife and two young children or out surfing somewhere on the Canterbury coast – but mostly during the warmer months these days

QUALITY ASSURED ASSESSMENT MATERIAL

Biology 2.1 “Variation in a Forest Canopy” Resource Pack

As requested by members, BEANZ has put together a resource pack for members which includes AS91153 Bio2.1 “Carry out a practical investigation in a biological context, with supervision” task, resource material and schedule which have successfully been through the QAAM process. For those new to this, QAAM stands for Quality Assured Assessment Materials which means that NZQA have already checked the materials and guaranteed they are at standard. This means you can use them with confidence.

The task has successfully been trialled in a New Zealand school and uses resources commonly found in secondary schools throughout the country. As well as the QAAM task, materials and schedule the resource pack also includes teacher guidelines, background readings and student graphic organiser which can be used as part of the teaching and learning process prior to assessment.

The value of this resource depends on the continued security of both the task and schedule so it is only accessible through BEANZ. While eventually it will be accessible via our new website, currently if you wish to have a copy of the resource pack you need to email your request to biologynz@gmail.com and include your name, school and email address.

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A Standing Committee of the New Zealand Association of Science Educators

Regional	Name	Regional	Name
Northland Region	Julie Harrisson	Taranaki Region	
Auckland Region	Mike Stone	Manawatu-Wanganui	Chris Corser
	Penny Daddy	Wellington Region	Sue Weich
Waikato Region		Nelson Marlborough	Sarah Johns
Bay of Plenty Region	Jean Grattan	West Coast Region	Erica Jar
Central North Island	Carrie Vander Zwaag	Canterbury Region	Matt Easterbrook
Gisborne Region		Otago Region	Pru Casey
Hawkes Bay Region	Marcia Hengst	Southland Region	Lee Pirini



From everyone at BEANZ, we wish you a merry Christmas and a safe and happy holidays.

We look forward to sharing new ideas and developing great new ways to inspire the future biologists together in 2017.