

Program: Science is Sweet, Wednesday July 19 Catherine McAuley College, Mackay

	<b>Registration</b>	
<b>8:30-9:00</b>	<b>Keynote address: Dr. Barry Salter, Sugar Research Australia</b>	
	A research agronomist with nineteen years' experience (post-PhD) in crop production research, project management, reporting, field and glasshouse experimentation, and extension of research outcomes in industry. Dr. Salter has contributed to the development of the SIX EASY STEPS nutrient management program and the development and validation of modern sugarcane farming systems (fallow cropping, reduced tillage, controlled traffic) that have been shown to improve soil condition and economic performance. Dr. Salter conducted a PhD on suckering in sugarcane. He has previously held the position of Executive Manager Biosecurity and Production and is based at SRA Mackay.	
<b>9:40-10:35</b>	<b>Session 1 Primary</b>	<b>Session 1 Secondary</b>
Presentation		
Presenter/s	<b>GBRMPA</b>	<b>TBC</b>
Outline of session		
<b>10:40-11:00</b>	<b>Morning Tea and Networking</b>	
<b>11:00-11:50</b>	<b>Session 2 Primary</b>	<b>Session 2 Secondary</b>
Presentation	<b>Sweet Science</b>	<b>Incorporating Indigenous Perspectives into Secondary Science Units</b>
Presenter/s	<b>Amy Cosby and Nikki Kelly</b>	<b>Lisa Bastedo</b>

<b>Outline of session</b>	<p>This session will introduce primary teachers to an engaging hands-on investigative activity for students. We will demonstrate the use of refractometers to provide accurate measurements of sugar content among different fruits and contrast this to traditional methods of determining sweetness like the taste or visual observation. The session will also explore a variety of ways to extend the investigation. This activity provides opportunities for your students to conduct their own fruit sweetness investigations that promote critical thinking, data analysis, and scientific reasoning while fostering a deeper understanding of the relationship between sugar content and taste perception in fruits.</p>	<p>Join me in this informative session as we examine the indigenous perspective elaborations outlined in the newly introduced Australian Curriculum 9.0 for different high school grade levels. Through a lens of sound pedagogical practices, we will explore effective strategies to enhance the engagement and effectiveness of lessons based on these elaborations. You will leave equipped with a toolkit of engaging activities tailored to different grade levels, enabling you to immediately enhance your classroom instruction by fostering a deeper appreciation and understanding of indigenous perspectives among your students.</p>
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<b>12:00-12:50</b>	<b>Session 3 Primary</b>	<b>Session 3 Secondary</b>
<b>Presentation</b>	Sweet Success!	
<b>Presenter/s</b>	Mary Rafter	GBRMPA
<b>Outline of session</b>	<p>Kids just love science experiments almost as much as sweets – let’s put them together and have some fun and some stealthy learning. Skittles, M&amp;Ms and sugar cubes pave the way for some interesting activities and investigations. Ambitious Science Teaching provides a student friendly framework that incorporates templates to guide students to make their thinking visible. Join us for a hands-on workshop, filled with goodies for now and ideas for class tomorrow.</p>	
<b>1:00-2:00</b>	<b>Lunch and Networking</b>	

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2:00- 2:55	Session 4 Primary	Session 4 Secondary
Presentation	Upper Primary Chemical and Biological science? Sweet as. <b>Covering some of the sticky bits in Year 4 and Year 6 Science</b>	Unlocking the Science of Sugarcane
Presenter/s	<b>Sue Stevens</b>	<b>Amy Cosby and Nikki Kelly</b>
	<p>This workshop will explore the benefits of understanding science to local industry on the Coral Sea Coast. Let's create an innovative and engaging activity while incorporating local resources in the Year 4 study of the properties of fibres. We can also investigate food chains in sugarcane fields and predict impact of introduced predators.</p> <p>In the Year 6 study of reversible and irreversible changes we will investigate the science capitalised in the sugar industry and spectacularly reclaim dissolved substances from solutions and demonstrate the production of new substances too. We will also probe an advantageous impact of a change in physical conditions resulting from the human activity of sugar cane farming.</p>	<p>Join us for an engaging hands-on session designed to introduce teachers to a practical scientific investigation that utilises refractometers. In this session, we will explore the world of sugar production using different sugarcane varieties. Through hands-on experimentation, teachers will learn how to use refractometers to measure sugar content, known as Brix levels, in various sugarcane samples. This interactive workshop will provide teachers with the knowledge and resources to incorporate this activity into their classrooms, fostering curiosity, critical thinking, and scientific inquiry among their students.</p>