



Date: Friday 3rd June 2022

Location: Curtin University, Bentley

School \_\_\_\_\_

Staff name \_\_\_\_\_ Mobile \_\_\_\_\_

Year Level/s \_\_\_\_\_ Student No. \_\_\_\_\_ Staff No. \_\_\_\_\_

Please number, from 1 to 6, your preferred presentation and we will endeavour to ensure the first 3 choices. If you are bringing more than one group use A/B etc before the number.

There are 4 scheduled sessions starting at 9.30 am for 9.45 start and finishing at 2.00pm with lunch time scheduled. Let us know if you have to make alternative start and finish times, otherwise we will assume you are here for the whole day. Send completed form to [pearsonjo@iinet.net.au](mailto:pearsonjo@iinet.net.au).

Schools are required to notify us if they need to CANCEL, by 20<sup>th</sup> May, so that schools on the waiting list can be included. Email [personjo@iinet.net.au](mailto:personjo@iinet.net.au) or message Mobile 0407 983 469.

Comment. \_\_\_\_\_

Organisation Presenter	Presentation	Selection Number 1-6 options
<b>Australian Earth Science Education</b>  <b>Cecily Arkell</b>	<b>EXCITING EARTH SCIENCE CAREERS.</b> Did you know that careers in earth science involve more than just licking rocks? Intrigued? Students will find out about the broad range of careers available in the field of earth science. They will also have the opportunity to take part in a hands-on activity, using their scientific investigation skills, examining fossil and rock evidence to explain past climates of an area.	
<b>Australian Institute of Marine Science (AIMS)</b>  <b>Martial Depczynski</b>	<b>A CAREER IN MARINE SCIENCE – IS IT RIGHT FOR ME?</b> A career as a marine scientist sounds so exciting! But what do they do? How do they get there? And is it all as romantic as it sounds? I will provide a story outlining some factual info on the pathway to a successful career in marine science and where you might expect to go with it through a look at my own personal journey. Included will be some video of Indigenous Land & Sea Rangers doing joint fieldwork alongside scientists to show how we take the best of western science and Traditional Ecological Knowledge to better look after Australia’s Sea Country.	
<b>Curtin University</b>  <b>School of Earth &amp; Planetary Sciences</b>  <b>Professor Fred Jourdan</b>	<b>BECOME A GUARDIAN OF EARTH!</b> Geology is the science that can allow you to discover how Earth and even other planets work. There are so many stories contains in every rock it’s not even funny. Dinosaurs? Check. Beginning of the solar system? Check. Mega volcanic eruptions that wiped almost all life on this planet? Check. That’s extremely exciting in itself, but with the current environmental crisis, geologists have now additional critical role to play as they now need to help combat dangerous climate change and help attain a sustainable society. Come and join me where you will explore what so inspiring about geosciences and the myriad of profession that a geologists can do. You will even play games where you will group up and compete against your fellow classmates to enable the transition toward renewable energy and help preserve the environment, and ultimately, become a <b>Guardian of Earth.</b>	



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<p><b>Curtin University</b></p> <p><b>Centre for Marine Science &amp; Technology</b></p> <p><b>Lauren Amy Hawkins</b></p> <p><b>PhD Candidate</b></p>	<p><b>LISTENING TO AN OCEAN ORCHESTRA.</b> Do you love listening to the sounds of the ocean? Are you passionate about protecting our marine environments? In this session you will be immersed in the wonderfully noisy world of our oceans. Learn how passive acoustics can be used to monitor and manage the marine environment with minimal impacts on its inhabitants. Experience what it is like to work as a Marine Bioacoustician, with the opportunity to participate in an activity identifying the underwater sounds of whales, fish, shrimp and more. Discover some of the pathways to achieving this dream and see some of the amazing experiences you may have on the way.</p>	
<p><b>DPIRD Fisheries</b></p> <p><b>Joshua Brown</b></p>	<p><b>FROM WHITEBAIT TO WHITE SHARKS.</b> The role of a fisheries scientist is extremely diverse, and includes fields of marine biology, oceanography, freshwater and marine ecology, population dynamics and statistical analysis. In this session students get to dip their toes into the wide range of sampling techniques used by fisheries scientists to monitor aquatic species, which is vital to support their sustainable management.</p>	
<p><b>Edith Cowan University</b></p> <p><b>Jessica Billingham</b></p> <p><b>Masters Student</b></p>	<p><b>ADVENTURES IN MARINE AND CONSERVATION SCIENCES AT ECU.</b> Are you passionate about the plants and animals that live in our marine and fresh waters? Find out about the amazing field and study opportunities that we have experienced during our time as students at ECU. From seagrasses to turtles and orcas, including stunning drone footage from beautiful locations such as Walpole and the Ningaloo reef. In this session, we will share with you how the experiences gained from our studies at ECU, as well as volunteering with government and industry have helped us develop our research skills to become better scientists in the field.</p>	
<p><b>Notre Dame University</b></p> <p><b>Linda Davies</b></p>	<p><b>COASTAL MANAGEMENT</b> What are we most concerned about when it comes to protecting our coastal zones? Some of the current issues to consider are sea level rise, disappearing beaches, recreational rubbish, public access, encroachment of development, and loss of biodiversity. In this session students will work in groups to identify and prioritise issues for coastal management in a broad context. The outcomes will be discussed along with potential solutions. The aim of the workshop is to get students listening to and valuing different viewpoints regarding coastal management, and to voice their perspective(s) on priorities for the future.</p>	
<p><b>SERCUL</b></p> <p><b>Rose Weerasinghe</b></p>	<p><b>MOZZIE WISE.</b> You can find out about how Ecologists and Natural Resource Management officers help protect us from mosquitoes and how they work to manage mosquitoes in the environment. Our research targets to better understand mosquitoes and develop an ecologically sound mosquito management plan in an integrated way; cultural, physical, biological and chemical. Participate in an activity with macro invertebrates and identify natural predators of mosquitoes.</p>	



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<p><b>SciTech</b></p>	<p><b>BUCKET TOWER CHALLENGE</b> This is a fun, hands-on activity in which students work in teams of three to build a structure that can suspend a bucket to hold weight. This real-world sandbox activity provides an opportunity for students to work collaboratively, communicate, and delegate using the ‘rapid prototyping’ design approach with the aim to ‘fail fast to learn fast.’</p>	
<p><b>UWA</b> <b>Isobel Sewell</b></p>	<p><b>INCREASING SUSTAINABILITY IN AQUACULTURE</b> Have you ever wondered where your fish comes from? In this workshop you can find out how the process of growing fish works, and the troubles the industry faces in terms of sustainability. You will participate in a short activity to understand some of the techniques used by scientists to combat these issues.</p>	
<p><b>UWA</b> <b>Malindi Gammon</b></p>	<p><b>A DAY AT THE BEACH: NESTING SEA TURTLES</b> Sea turtles have existed in our oceans for over 100 million years. Yet today, sea turtles face serious threats to their survival due to climate change, pollution, and accidental catch in fishing gear. In this session students will learn about an essential part of the sea turtle life cycle – nesting on sandy beaches. Students will explore the threats to sea turtle nest success and what we can do to address these threats. By participating in a hands-on activity about handling, measuring and tagging sea turtles, students will also learn how conservation managers gain important information about the size of nesting populations.</p>	
<p><b>UWA</b> <b>Neuroscience</b> <b>Associate Professor Jennifer Rodger</b></p>	<p><b>INSIDE OUR HEADS.</b> Weighing about 1.5 kg is an astonishing living organ consisting of billions of tiny cells. It enables us to sense the world around us, to think and to talk. The human brain is the most complex organ of the body, and arguably the most complex thing on earth! In this interactive session, we talk about how the brain works and how it has evolved in different animals to enable very specialised behaviours. You will have the opportunity to touch a real brain and become part of a neural circuit.</p>	