



## MALA-Peel "SUMMER SCHOOL PROGRAM" 7th-11th JANUARY 2019

### MONDAY 7th JANUARY 2019:

9.15 am OFFICIAL OPENING BY HON ZAK KIRKUP MLA, SHADOW MINISTER FOR CORRECTIVE SERVICES & SHADOW MINISTER ASSISTING THE LEADER OF THE OPPOSITION, MEMBER FOR DAWESVILLE.

9.30 a.m. **Professor Peter Newman AO** "W.A. CHIEF SCIENTIST FOR 2018 and JOHN CURTIN DISTINGUISHED PROFESSOR OF SUSTAINABILITY, CURTIN UNIVERSITY SUSTAINABILITY POLICY" whose topic is:

#### "HOPE FOR OUR GRANDCHILDREN"

The future seems to rush ever quicker towards us and there is much to fear about it with global warming, loss of biodiversity, refugees on the move in so many parts of the world, extremism and terrorism inflicting politics, and the tragic loss of cultures like our ancient Australian indigenous Songlines. What can we do? We need to show hope. Not blind optimism but a choice to pursue what can lift our sights to see better options and then help deliver them. After more than 40 years choosing to pursue hope in some of these issues there are a few signs of change that may enable us to glimpse a better future for our grandchildren. The lecture will outline some of the evidence and the stories as well as the agenda being pursued around three new projects: The Trackless Tram, Lithium Valley and Songlines and Sustainability.

1.00 p.m. **Dr Ian D. Macleod** "PRINCIPAL, HERITAGE CONSERVATION SOLUTIONS and FELLOW OF WESTERN AUSTRALIAN MUSEUM" whose topic is:

#### "CONSERVATION OF SHIPWRECKS"

When objects fall into the sea they begin to change their nature and cease to be objects of construction and functionality but become objects of intrigue and mystery. After many hundreds of years decayed objects still resemble their original form but are now extensively internally degraded. The job of the conservator is to take highly reactive objects from the marine environment and move them into a stable state and in so doing retain the maximum values associated with their original purpose. This story will take you on a journey of discovery about how apparently meaningless interactions with the marine microenvironment can record changes that have significance to the present and future generations. Tales of corruption with deliberate fabrication of forged coins in the 16th century reveal a different side of the Batavia (1629) story and the journey will take you through a time warp as 25 years of conservation of the engine of the State's first steam ship SS Xantho (1872) are compressed into a few minutes.

### TUESDAY 8TH JANUARY 2019:

9.30 a.m. **Dr Ruey-Leng Loo** "2018 W.A. PREMIER'S EARLY TO MID-CAREER FELLOW" AT MURDOCH UNIVERSITY whose topic is: "RESEARCH IN PERSONALISED NUTRITION AND HEALTH". **A FIRST IN AUSTRALIA, IN W.A. and AT THE MALA-Peel SUMMER SCHOOL!**

Dr Loo will introduce the two W.A. Fellows - in term of herself and Professor Elaine Holmes with plans to position W.A. as the global leader of precision medicine which are in motion with the launch of the Australian National Phenome Centre based at Murdoch University. The ANPC could help to transform the health of every person in W.A. and billions more around the world. Dr Loo will describe her own transition from Pharmacist to Researcher and will describe metabolic phenotyping and its' application in biomedical science with a focus on the areas of research that she and Professor Holmes will be involved in. Through biobanking studies, Dr Loo will show how the general public can also be involved in science and how, by using metabolic phenotyping and the network, we can study metabolism in human health, diseases to benefit Perth and the global population.

1.00 p.m. **Mrs Jenny Bevan** "HONORARY RESEARCH FELLOW, UWA SCHOOL OF EARTH & ENVIRONMENT" whose topic is:

**"GEOLOGICAL HIGHLIGHTS OF WESTERN AUSTRALIA"**

Journey in Space and Time across our wonderful State, and have the best of our stunning rocks and landscapes simply explained by a Geologist as she shares her own photographs and knowledge with you. We will visit many areas across W.A., including the Pilbara and Kimberley regions of our great North-Western Australia. By the end of the talk you should also have a good overview of how the rocks of our State have been assembled and changed over Time, and some of the geological processes involved.

NB...you won't need any previous geological knowledge for this illustrated talk!

**WEDNESDAY 9TH JANUARY 2019:**

9.30 a.m. **Dr Chandra Salgano-Kent** "MARINE ECOLOGIST & BIO-ACOUSTICIAN & DEPUTY DIRECTOR, CENTRE FOR MARINE SCIENCE AND TECHNOLOGY AT CURTIN UNIVERSITY" whose topic is:

**"RESEARCH AND CONSERVATION OF MARINE MAMMALS OFF WESTERN AUSTRALIA"**

This unit aims to provide an overview of marine mammal research methodology and conservation off the coast of Western Australia. After an introduction to marine mammals off Western Australia, we will learn about different methods and technology currently used by researchers to study these animals. Topics covered will include dolphin habitat use, behaviour, and population dynamics. We will demonstrate in detail how to obtain such information using acoustics (i.e. underwater sound) and photo-identification techniques in particular. You will also learn about the key threats to marine mammal populations and how we can conserve them into the future.

1.00 p.m. **Dr Steve Fisher** "PROGRAM MANAGER: SCIENCE & WATERWAYS, PEEL-HARVEY CATCHMENT COUNCIL" whose topic is: "WATERY SCIENCE: CARING FOR OUR RAMSAR WETLANDS OF INTERNATIONAL IMPORTANCE"

Dr Fisher will talk about combining his passion for water and science and the current condition of the Ramsar-listed Peel.-Yalgorup Wetlands of International Importance. This includes the Peel-Harvey Estuary System and some of the projects he and his team at the PHCC are currently undertaking to improve its health.

**THURSDAY 10TH JANUARY 2019:**

9.30 a.m. **Professor Lyn Beazley AO FTSE** "ADJUNCT PROFESSOR OF SCIENCE AT MURDOCH UNIVERSITY" whose topic is:

**"EcoTourism: A POTENTIAL JEWEL IN OUR CROWN".**

Professor Beazley states that our wonderful State of Western Australia is replete with amazing ecotourism potential, embracing both tropical and temperate environments and including ecosystems as diverse as deserts, spectacular forests and mangrove coasts. Attractions are cultural, with human history stretching back at least 50,000 years, geological with unique and ancient rocks, an extensive fossil record and more modern aspects such as mining, and biological with extensive biodiversity, on land, throughout our waterways and across our vast oceans, with so many species and ecosystems unique to W.A.

1.00 p.m. **Professor Alan Harvey** "EMERITUS PROFESSOR IN THE SCHOOL OF HUMAN SCIENCES AT UWA" whose topic is:

**"MUSIC, EVOLUTION and the HARMONY OF SOULS"**

Professor Harvey builds his arguments clearly with a call to action, highlighting the need for public policy to reflect that music is essential for our psychological health and the social well-being of humanity. He demonstrates the value of music in education and therapy and links music with pro-social and altruistic behaviours.

## **FRIDAY 11TH JANUARY 2019:**

9.30 a.m. **Emeritus Professor Robert Mead** "FORENSIC TOXICOLOGIST AT MURDOCH UNIVERSITY" whose topic is:

### **"FORENSIC SCIENCE, "THE GOOD, THE BAD AND THE UGLY"**

The development of Forensic Science over the past 30 years has enhanced the investigation of homicide but it doesn't always result in a just outcome. In this session we will look at two fascinating cases. In one, forensic investigation of skeletal remains led to the identification of a murder victim and the apprehension of his killers, while, in another, forensic investigation of the death of a 3-month old child resulted in an innocent mother being wrongly convicted of his homicide. Using this case as an example, we will explore how cognitive bias can inadvertently lead investigators down the wrong path and result in a miscarriage of justice.

1.00 p.m. **Mrs Susan Swain**, "ARCHITECT & ARTIST" whose topic is:

### **"BURRUP ROCK ART: THE OLDEST CONTINUOUS RECORD OF MAN ON EARTH"**

The Rock Art on the Burrup (near Karratha) is the oldest, continuous record of man on planet Earth. It has the first depiction of man's image ever recorded, known as an "archaic face". This "gallery" of rock art contains more than 1 million rock petroglyphs, which are now at risk of destruction, due to the industrial park being co-located on the Burrup. The Friends of Australian Rock Art (FARA) team are fighting big industry on the Burrup because they are polluting the air, which will dissolve this gallery in the next few decades. Come and see what the world will lose if this happens! This Art goes back nearly 50,000 years! Learn about the Flying Foam Massacre, which eradicated the Aboriginals from this land, thus leaving the door open for the proliferation of industry.

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