MALA-Peel "SUMMER SCHOOL PROGRAM"
Mandurah Performing Arts Centre
11th-15th JANUARY 2021

MONDAY 11th JANUARY 2021:

9.30-11.30 a.m. "OFFICIAL OPENING" by The Hon David Templeman MLA, Member for Mandurah, Minister for Local Government, Culture and the Arts, and great supporter of Ongoing Education for the Over 50's.

"Welcome to Country" by World renowned Noongar Artist, Sandra Hill and assisted by respected Aboriginal Elder**, Ben Taylor.**

"ABORIGINAL ART". Sandra Hill

Sandra's works are represented in private collections as well as publicly accessible collections such as the Art Gallery of W.A., the Holmes-a-Court Collection, Wesfarmers Collection, The National Gallery of Australia, Parliament House Collection-Canberra, Parliament House Collection-W.A., the National Gallery of Victoria, Edith Cowan University, the Berndt Museum of Anthropology, Murdoch University, the City of Bunbury, Western Australian Museum, Queens University (Ontario, Canada) the Dutch Embassy in Canberra, the Cruthers Foundation, University of Western Australia, and the Dutch Royal Archives, The Netherlands.

1.00-3.00 p.m. "BURNING OUR BUSHLAND AND OUR LAST WILDERNESS".

Professor Kingsley Dixon FLS, John Curtin Distinguished Professor and **Dr Joanna Young, noted Forest Scientist and South-West Farmer who has lived in the Great Southern Region for many years.**

Bushfires are part and parcel of living in Australia with plants and animals that have survived and lived alongside fire. Often times epic fires have occurred periodically across the landscapes with evidence of fires occurring well before human occupation of the continent 40-60,000 years ago. The plants and animals in these large landscape fires always survived the fires in a myriad of astonishing ways. Noongar people also learnt to live, respect and use fire in remarkably sensitive ways characterised by selectivity rather than ubiquity. Such care and attention to clearing pathways, protecting the local area around the campsite and targeted use of fire for food production provided a highly nuanced use of fire. Yet today, with just 30% of the South-West remaining as bushland, we are seeing a new use of fire where deployment to achieve a set target of 2,000 sq km per annum is undertaken under the prescribed burning programs. To achieve these targets will require fire to occur at up to 10 times the natural fire frequency and at a season when fires rarely occur. Compounded by a highly fragmented landscape, the impact of such burning represents a major and potentially high-risk strategy with broad and lasting impacts on our biodiversity.

TUESDAY 12th JANUARY 2021

9.30- 11.30 a.m. "UNDERWATER MYSTERIES: WHEN THE CRIME SCENE IS UNDERWATER".

Dr Paola Magni, Senior Lecturer Forensic Science and Edda Guareschi MD, Forensic Pathologist, MSc and PhD Candidate, Adjunct Lecturer in Forensic Science, both at Murdoch University.

Both Paola and Edda work in the field of Underwater Forensics, which is relatively new and fascinating and they have several research and case works in common…so they will each give a case study to engage our audience.

1-3p.m. "FORGETFULNESS: NORMAL AGEING OR TROUBLE AHEAD".

Dr Pauline Morrow, a retired hospital Doctor with many years experience in Medicine for the elderly and rehabilitation both in the UK and Australia and Jason Burton from Alzheimers W.A.

With a growing understanding of how the brain changes as we age, we are learning that conditions such as cognitive impairment and dementia may begin many years before memory loss or other symptoms begin. This Presentation will share the latest research and understanding of the brain changes that occur with normal ageing and in the presence of disease; how to recognise the difference between the two and what we can do to both reduce the risk of dementia and to live well with mild cognitive impairment.

WEDNESDAY 13TH JANUARY 2021:

9.30-11.30 a.m. "BLOOD CANCERS".

Professor Wendy Erber MBBS, MD, DPhil, FRCPA, FRCPath, FAHMS, is Consultant Haematologist and Professor of Pathology and Laboratory Medicine at U.W.A.

Blood Cancers (Leukaemia, Lymphoma and Plasma Cell disorders) affect people of all ages and are among the most common types of Cancer in Australia. They are the most frequent cause of non-preventable Cancer deaths and among the most costly to our community. The current burden of disease nationally is estimated to be over $20. billion. In the Presentation Wendy will define "Blood Cancer" and give a description of the most common types in Australia and she will then describe some of the research developments in "precision diagnostics". This will include the world-first innovation that led to the Eureka Prize.

1.00-3.00 p.m. "CAN DOCUMENTARIES REALLY MAKE A DIFFERENCE?"

Associate Professor Cathy Henkel (PhD), Director of Screen Academy at ECU and Founding Director Virgo Productions.

Dr Cathy Henkel will talk about some major impact documentaries that have shifted public opinion and brought about change and then talk about her own work. She will introduce a film she is making - Laura's Choice- about her Mother's decision to choose her own way of dying at the age of 90. This film will be broadcast as a 2 x 1 hour program on the ABC in March 2021.

THURSDAY 14TH JANUARY 2021:

9.30-11.30 a.m. "DEMENTIA - IS IT IN OUR GENES OR THE WAY WE LIVE?"

Dr Luke Whiley, Senior Lecturer in Phenomics, Healthy Ageing and Dementia at the Australian National Phenome Centre, Health Futures Institute, Murdoch University.

Dementia such as Alzheimer's disease are on the rise, but there is much we don't know about them. Why does dementia affect certain individuals, while others age without signs or symptoms? We will ask,"Is it in our genes or due to lifestyle?" Dr Whiley is a Researcher at Murdoch University and he researches the complex relationship between our genes and environment using a technique called metabolic phenotyping to identify changes in our metabolism that can influence our health. The ANPC is the only facility of its kind in the southern hemisphere, bringing together all five Western Australian Universities and leading Health and Medical Research Institutes. The work of the ANPC supports almost every area of bioscience and plans to revolutionise the diagnosis and treatment of serious health challenges like Cancer, Alzheimer's, Autism, Obesity and Type 2 Diabetes.

1.00-3.00 p.m. "THE INTERNATIONAL AND WESTERN AUSTRALIAN FRAMEWORK OF CLIMATE CHANGE LAW AND POLICY"

Dr Jürgen Bröhmer, Professor of Law at Murdoch University and Glen McLeod, Principal Glen McLeod Legal and Adjunct Professor of Law, Murdoch University.

It is well acknowledged that Germany has some of the most advanced greenhouse gas Law and Policy framework in the world, but how effective has it been? Western Australia has a very different regulatory regime and it has some of the largest mining projects in the world that make a significant contribution to Australia's greenhouse gas output. What controls apply to our output? Is there anything we can learn from Germany? Climate change presents the greatest planetary challenge yet. The warming of the earth at a rapid pace too fast for natural adaptation will have grave consequences that will affect human beings individually and communities profoundly. Climate change also presents great challenges to our governance systems, which are not designed to deal with global policy challenges. States will not be able to individually tackle the problem without overarching international coordination and collaboration, including the setting of international rules and regulations such as greenhouse gas emission standards. The United Nations Framework Convention on Climate Change (UNFCCC) and the endeavours undertaken within this framework, such as the Kyoto Protocol and the Paris Climate Agreement, are attempts to progress the goals of mitigation and adaptation of climate change. The problem is exacerbated by the lengthy timelines and the fact that significant action is required now to avoid or mitigate potentially devastating consequences in the future. This Presentation will attempt to shed some light on the UNFCCC and, particularly, on the Paris Agreement. It will address the US withdrawal from the Agreement, the concept of Nationally Determined Contributions and Australia's commitments. The difficulties and challenges of international decision-making and rule setting in the light of primarily national democratic systems of legitimacy will also be discussed.

FRIDAY 15TH JANUARY 2021:

9.30-11.30 a.m. "CLIMATE CHANGE and RENEWABLE ENERGY - Challenges and Opportunities".

Dr Paul Wilkes is a Geophysicist and Honorary Research Fellow at CSIRO Energy

Paul will provide an update on global climate change and how globally we are responding to the changes. Whilst climate change effects are increasing and serious, the good news is that renewable energy provides cost effective solutions that also create many new jobs. These are much needed as the world recovers from the Covid-19 Pandemic. The Presentation includes examples from countries which are ahead of Australia and from which we can learn. Australia once again is a lucky country being well endowed with "Renewable Energy" sources and with smart implementation we can improve our environment and contribute to global solutions.

1.00-3.00 p.m. "THE SIGNIFICANCE OF THE RAMSAR LISTED PEEL-YALGORUP WETLANDS FOR BIRDLIFE IN THE REGION".

Dr Vicki Stokes, W.A. Program Manager, BirdLife Australia

The Peel-Yalgorup wetlands are recognised under the Ramsar Convention in Wetlands as internationally important for the diversity and abundance of waterbirds the wetlands support. Enjoy an introduction to the diverse birdlife of the Region including the many migratory shorebirds that visit the area each summer. Learn about the variety of wetland habitats across the Peel-Yalgorup site, the threats to these wetland systems and what needs to be done to protect the wetlands and the many waterbirds that rely on them

MALA-Peel thanks our Sponsors for their support.

MAYDAY OPPORTUNITY SHOPS

MANDURAH PERFORMING ARTS CENTRE

City of MANDURAH

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TELEPHONE: 95503900

COST: DISCOUNTED AT $100. FOR 10 SESSIONS or $12.50 EACH SESSION.