



GOULD LEAGUE FREE FOREST TEACHER PD for SECONDARY Science and Geography Teachers

9.30am - 3.30pm
Friday May 2nd, 2025

Toolangi State Forest

Learning will be FUN, ENGAGING, and RELEVANT
however spots are strictly limited, so don't delay.
BOOK TODAY!

MORNING TEA & LUNCH PROVIDED

As educators, how can we address environmental topics in a way that minimises student disconnection or anxiety about these issues while motivating them to take action? Join Anne-Maree McInerney, General Manager of Gould League and a recognised global sustainability advisor, for a day-long exploration in the forest alongside experts in climate science, biodiversity, and water conservation. This professional development opportunity is designed to uplift and inspire teachers as they discover the economic, social, and long-term advantages of healthy mountain forests and their critical role in our future.

We will discuss the immense value of ecosystem services forests provide such as crop pollination, water purification, food security, and carbon sequestration, which collectively amount to trillions of dollars worldwide. Participants will gain insight into local wildlife adaptations, the historical significance of ecosystem services in the Yarra Ranges catchment area, and the effects of human activity.

Our expert speakers in Climate Science and Water Services will ensure that teachers leave with crucial information that aligns with the school curriculum. This knowledge will be reinforced through an outdoor walk in previously burned forest areas and a hands-on skills session, allowing teachers to experience first-hand what their students would encounter during an excursion.

This day celebrates the magnificent tall trees of the Toolangi State Forest and the river system that sustains us, providing Melbourne's water supply. This innovative approach to real-world learning offers a peek into the future of education, fostering resilience, creating jobs, and making positive contributions to society and the environment.

Proudly Supported by: Eucalypt Australia, Skies Unlimited, Monash University, GTAV and CFA Toolangi



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PROGRAM



Welcome and Introduction

9.30AM Official welcome, Acknowledgement of Country, plus introduction of Gould League and how we've inspired generations of scientists, problem solvers and eco warriors for over 100 years.

Innovation by Nature - it's worth more than you realise!

9.40AM This session not only gives an economic value to nature and the ecosystem services it provides, it showcases a range of biomimetic and blue economy innovation that's reducing waste, increasing yields in agriculture and aquaculture, how we can now make paper without trees using the waste of mining processes, get inspiration from termite mounds to provide air-conditioning without the need for power, lighting via luminescence and much more.

10.30AM Morning Tea

10.45AM Overview of Ecosystems Services of the Upper Ranges catchment area

First-hand experience of Toolangi State Forest and it's Ecosystem Services

11.00AM This session entails a 2.2km loop walk to the Yea River (gentle grade - easy to walk). See the world's tallest flowering plant (Mountain Ash), Messmate, Tree Ferns and other wonders of the forest. We test water turbidity, salinity and temperature, discuss local food production, and how Toolangi's forests contribute to creating, collecting, storing and filtering water, as well as an exploration of human influences on water movement and quality.

12:30PM Lunch

1.00PM Earth Scientist Dr James Driscoll will run a session to deepen educator **understanding of Climate Science in relation to the Australia's native forests**. What role do forests play in climate change and in return what impacts are affecting forests? Why understanding changes to our forests are essential to understanding climate change.

Skills session

2.00PM This session will workshop some of the methods and techniques necessary to collect data and information to measure impacts on the forest. Techniques covered will include quadrat sampling and measuring carbon in a tree, and will include a drone demonstration to help quantify local changes.

Group discussion

3.00PM Time to share your successes and limitations to improving your environmental science or geography learning in the classroom, meeting curriculum requirements and accessing data.

3.15PM Discussion and questions

3.30PM End of program



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SPEAKERS



Dr James Driscoll

James is the Director of STEM Outreach at Monash University's Faculty of Science - a role directed at enhancing scientific literacy in high schools and the community. He leads the outreach program for the School of Earth, Atmosphere & Environment, specialising in Earth science. Additionally, he teaches Environmental science at John Monash Science School, serves as Chair of Education at the Geological Society of Australia (Victoria), and is a Visiting Scientist at St Kevin's College. His research focuses on the evolution of river systems in geological history before land vegetation emerged.



Anne-Maree McInerney

Anne-Maree is Gould League's General Manager. She is a highly regarded international sustainability thought leader, educator and advisor. Anne-Maree uses powerful and meaningful stories of transformation to inspire change. She creatively shows us that sustainability is not just an aspiration, it's a practical reality that is sweeping our businesses, communities and governance systems - providing significant financial, environmental and social returns.



Jane Petch

Jane has a passion for nature and environmental education. Her childhood experiences of farm life and riding through eucalypt forests inspired her to engage students with stories of nature's symbiotic relationships. She later earned a Master of Water Resource Management, focusing on freshwater ecology and the effects of urban development on ecosystems. As an educator at Melbourne Water, she promotes understanding of the urban water cycle. With over 10 years of experience, Jane also enjoys gardening and observing wildlife. She has been associated with Gould League since 2016.



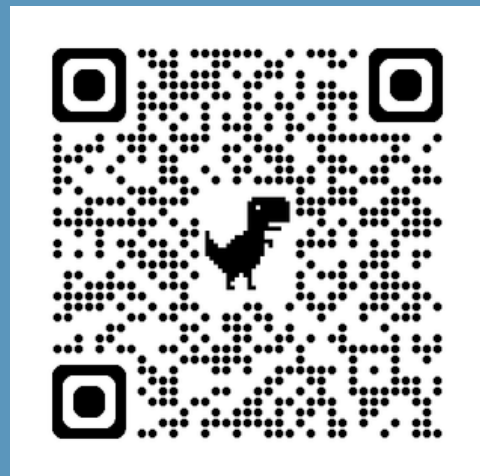
Paul Randle

Get a taste for drone technology with Paul "Digger" Randle, a licensed drone pilot and drone educator with Skies Unlimited. Skies Unlimited specialize in delivering exciting and educational drone-based programs for upper primary to VCE students. Their hands-on activities inspire curiosity and creativity while directly supporting learning outcomes in STEM and geography.

FREE EVENT - INCLUDES LUNCH

**BOOKINGS ESSENTIAL
DUE TO LIMITED
PLACES**

BOOK HERE



This learning program is best suited to educators of all Secondary students from Year 7 through to VCE, co-ordinators of Incursions/ Excursions, or leadership programs.

Please dress appropriately, and advise any physical limitations or dietary requirements.

As this is a remote location, we highly recommend carpooling. There is ample parking available. We ask you don't park in CFA response parking spaces or out the front of the station apron, so CFA are able to respond quickly and easily if they get a callout.



**CFA Toolangi
1683 Healesville -
Kinglake Rd
TOOLANGI**



Discover why teachers come to our PD days...

"It was so interesting and inspiring - lots of innovation in sustainability and a more positive approach to managing the environment compared to the EnviroScience Textbook! 10 out of 10"

Karen - Upper Yarra Secondary College

"The Gould League provides essential environment education to students who need to be exposed to Victoria's natural environment. It exposes students to the importance of caring for and respecting the land and natural resources"

Angela - Preston High School

"Engaging, passionate presenters that linked what they were talking about to activities in the classroom".

Julianne - Sunbury Downs College



LEARN MORE ABOUT GOULD LEAGUE www.gould.org.au or follow us on

