



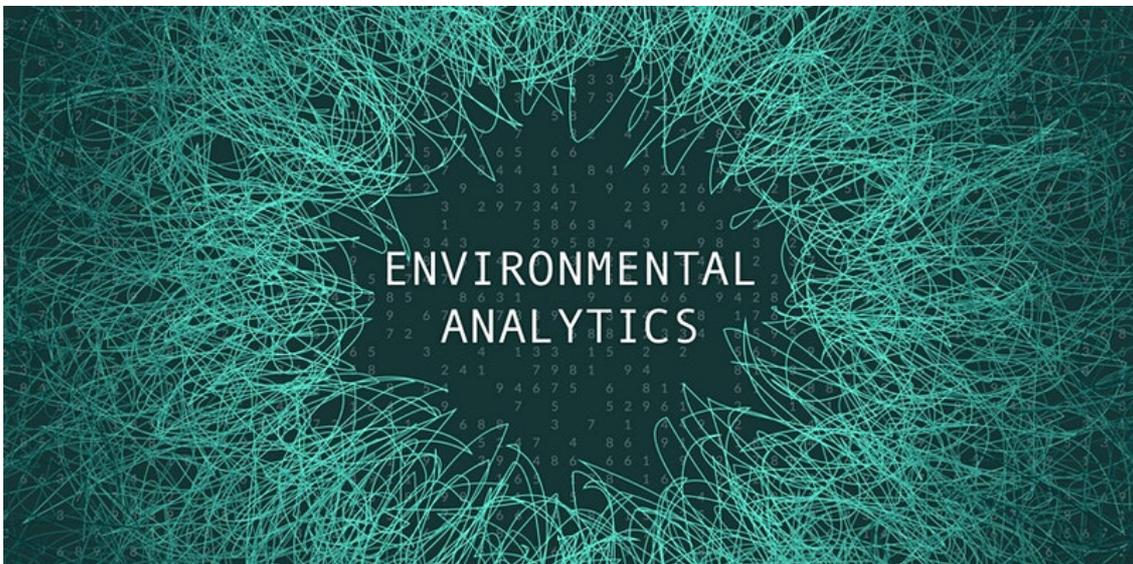
The Sustainable Engineering Society

...engineering in harmony with ecology

WA SENG Newsletter

Upcoming events of interest

In these times of social distancing and working from home, webinars, teleconferencing and online learning have become de rigueur and the new norm. In line with this, the WA SENG committee has compiled a list of upcoming events with a sustainability theme that may be of interest to members.



Environmental Analytics

Free Webinar by WA Data Science Innovation Hub

Friday, 24 April 2020 - 10h00 AWST

With a growing number of devices and satellites capturing the earth's data, we

actionable information that can support the management of our ever-changing environment.

Join us alongside industry and academic experts who will share their insights and expertise, and demonstrate the endless capabilities of data science in supporting environmental management.

In this session we'll explore a variety of fields and applications, including the use of environmental sensor networks, mine rehabilitation monitoring, the role of earth observation analysis and the new tools being used in bushfire risk management.

Registration: <https://www.eventbrite.com.au/e/environmental-analytics-webinar-registration-102948782580>



Water Sensitive Cities Scenario Tool – TARGET Module

Free Webinar by Cooperative Research Centre for Water Sensitive Cities Ltd.

Wednesday, 29 April 2020 - 09h30 AWST

The WSC Scenario Tool is an online planning-support tool that enables users to simulate urban development and the performance of green and blue infrastructure interventions. TARGET is an integral component that can produce a time series of air temperatures and human thermal comfort indicators for any given case study by assessing the microclimate impacts.

Registration: https://uqz.zoom.us/webinar/register/WN_6wJ-N60PQcKAbhOM8nGJZQ

Transition to Electric Vehicles

by **Sustainable Engineering Society Victoria**

Event postponed - new date in May TBC

Many European and Scandinavian countries are well advanced in the planning for, and uptake of electric vehicles especially passenger cars as a strategy to reduce carbon emissions. Australia is a relative laggard, but there are signs things are changing, with several makes of passenger car now available and public charging infrastructure slowly expanding. Governments at state and federal level are beginning to address the policy and financial aspects of transitioning away from fossil fuel powered vehicles.

This seminar will look at the Australian context from both a technical and government/policy perspective.

Registration: TBC

COVID-19: A Water Professional's Perspective

Free Webinar by International Water Association

Pre-recorded

The Covid-19 pandemic is prompting questions for the water supply and sanitation sector globally. While operators provide their services within a national context, scientific and operational concerns and insights are relevant across borders. The IWA Online Dialogue gathers experts in water and sanitation from across the globe and aims to address some of the most pressing questions for water professionals.

The event will focus on addressing the impacts of the virus for the water sector. The expert panel will discuss topics such as the fate and inactivation of the virus during water supply treatment, public health (aerosol risk in buildings, water reuse schemes and reuse of sewage sludge), and the impact of this crisis on the water sector and water professionals.

Achieving net zero with hydrogen and CCS

Free Webinar by ipieca

Monday, 27 Apr 2020 - 21h00 AWST

Presented by Corin Taylor of DNV GL, this IPIECA webinar will explore the potential of hydrogen and carbon capture and storage (CCS) technology to support hard-to-decarbonise sectors such as manufacture of steel, cement and petrochemicals in the transition to net-zero emissions. In addition, the webinar will examine what 'zero carbon' means in practice and the policy mechanisms needed to bring hydrogen and CCS technology to market.

Hydrogen is a flexible energy carrier that produces low greenhouse gas emissions, and could be used across a range of energy-intensive sectors: electricity generation; transport; heat and cooling for industrial, business and private residential use. It also has energy storage potential. Natural gas coupled with CCS may offer an affordable and scalable option for the provision of hydrogen as a global energy carrier.

Corin will also discuss some of the technical aspects of a hydrogen economy including:

- The challenges of using hydrogen fuel cells for aviation, shipping and heavy and light duty road transport;
- The routes to generating hydrogen;
- Repurposing existing natural gas infrastructure for use with hydrogen; and
- The potential air quality and public health benefits of hydrogen.

Registration: <https://event.on24.com/eventRegistration/eventRegistrationServlet?referrer=&eventid=2268851&sessionid=1&key=FD3CAAC1588C21346EAACC6F2F636648®Tag=>

Distributed Energy Resources: A Roadmap for the Future

Wednesday, 29 April 2020 - 16h00 AWST

Hear Jai Thomas, Project Director at the Energy Transformation Implementation Unit, provide an overview of the Western Australian State Government's recently launched Distributed Energy Resources (DER) Roadmap. DERs include rooftop solar panels, batteries, electric vehicles and microgrids; all of which are transforming the way we generate and use electricity in Western Australia. But this transformation comes with many challenges, including driving day-time demand to an all time low threatening the secure operation of the electricity system.

The Roadmap outlines the actions we must take over the next five years to harness the opportunities DER presents whilst ensuring the system remains secure and can provide electricity to consumers at the lowest cost.

The DER Roadmap is the first major deliverable from the Energy Transformation Taskforce, formed by the WA State Government to implement its Energy Transformation Strategy.

Jai's presentation will be followed by a question and answer session.

Due to COVID-19, this YEP event will be held virtually via Microsoft teams. Those who have registered will be provided the meeting link via Eventbrite prior to the event start.

Registration: <https://www.eventbrite.com.au/e/distributed-energy-resources-a-roadmap-for-the-future-tickets-102947388410>



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