



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.



East Rockingham Waste to Energy Facility

Event by the Chartered Institution of Building Services Engineers (CIBSE)

The Public House, 263 Adelaide Terrace, Perth, WA 6000

Thursday, 27 August 2020, 16:45 AWST

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energy project in 2012 and was CEO of New Energy, one of the three developers of the East Rockingham project. In February 2020 he moved into the role of General Manager – Commercial for East Rockingham Waste to Energy.

The \$511 million East Rockingham WTE project is a 300,000 (plus 30,000 biosolids) tonne-per-annum energy from waste facility under construction in the Rockingham Industry Zone, south of Perth. On completion, the facility will deliver a cost-effective waste treatment solution and a vital source of dispatchable renewable energy, whilst achieving a 96% diversion of residual waste from landfill.

CIBSE WA are pleased to invite attendees to stay for a drink and networking after the event

Registration: <https://www.cibse.org/training-events/event?id=a1E3Y00001hySNKUA2>



11:00–12:00

02 September



How can we achieve Net Zero?

**Free Webinar by the Programme on Integrating Renewable Energy,
University of Oxford**

Wednesday, 2 September 2020, 18:00 AWST

In this webinar, Malcolm McCulloch and Eric Brown will talk about Net Zero and

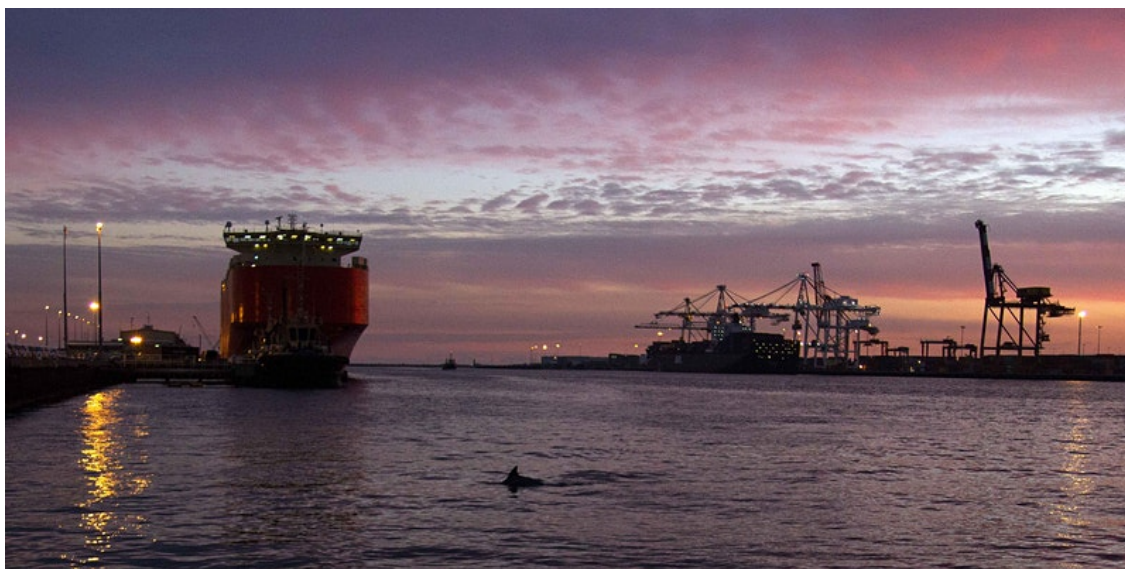
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Helen is based in the Environmental Change Institute of the University of Oxford, working on the Programme on Integrating Renewable Energy. She is a sustainability professional, passionate about renewable energy and water resources, with expertise in a range of quantitative environmental issues.

Malcolm is an Associate Professor in Engineering Science and Group Leader of the Energy and Power Group at the University of Oxford. He is also the Director of the Programme on Integrating Renewable Energy, and a Fellow of the Oxford Martin School.

Eric is the Chief Technology Officer at Energy Systems Catapult, providing expert insight and guidance on cutting-edge energy sector innovation both internally and across a range of external advisory bodies.

Registration: <https://www.eventbrite.co.uk/e/how-can-we-achieve-net-zero-registration-109793340838>



Evaluating the Potential Impacts of Pile Driving Noise on Marine Mammals

Free webinar by the Permanent International Association of Navigational Congresses (PIANC) WA

Tuesday, 15 September 2020, 17:00 AWST

Our key speaker is Chandra Salgado Kent, an Associate Professor at ECU and

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bottlenose dolphins in the Perth region of Western Australia.

She has studied whales and dolphins in Perth and broadly in the Oceania region, has published widely, and has extensive knowledge of the impact of port activities including underwater noise.

Having worked extensively on oil and gas industry, ports, and fisheries projects, Chandra's research is linked to real world examples and the upcoming PIANC working group papers "Best Practices of how to deal with sea turtles and mammals in marine waterway and port construction activities" and "A Guide for Assessing and Managing Effects of Underwater Sounds from Navigation Infrastructure Activities".

Attendance is available in person at UWA IOMRC or online. All are welcome to join us at Varsity Bar Nedlands for drinks and canapes following the seminar.

Due to limited seating at UWA, WGA will also be hosting a viewing group at their offices on Kings Park Road, open to all to attend.

Registration: <https://pianc.org.au/events/wa-seminar-pile-driving-noise-impacts-on-marine-mammals-26-08-2020/>



Stormwater: Australia's great environmental dilemma

Free webinar by the Victorian Environmental Friends Network

Tuesday, 15 September 2020, 17:00 AWST

It will discuss industry solutions and provide guidance on simple things we can all implement to reduce stormwater pollution.

Topic will include (subject to change)

- What is stormwater?
- Urban sprawl pressures impacting our local waterways
- Water Sensitive Urban Design
- Catchment level
- Local level
- Lot level
- Assessing stormwater pollution
- Finding major sources of pollution
- Linking scientific data to community education and awareness programs

Dr David Sharley is an environmental scientist with over twenty years of experience working in water and environmental services. Dave worked at the University of Melbourne for over 10 years researching how pollutants can stress and change aquatic population structures and decrease the resilience of aquatic ecosystems. Building upon his twenty years of research experience, Dave founded Bio2Lab in 2017 with Steve Marshall to develop and offer novel water quality monitoring tools to the water industry. Dave enjoys developing new ways to communicate scientific outcomes to governments, industry and the community, and has published many articles on the ecological impact of urban development and land management. Dave's main areas of interest include aquatic pollution, real-time monitoring, pollution tracking, environmental assessment, urban wetland ecology, integrated catchment management and linking environmental research outcomes to policy.

Registration: <https://www.eventbrite.com.au/e/stormwater-australias-great-environmental-dilemma-tickets-117482119181>



Green Hydrogen for Fuel and Energy Export

Webinar by the Engineers Australia

Tuesday, 25 August 2020, 13:00 AEST

Hydrogen is an abundant element that can be combusted to generate energy, with the only emission being water.

It is able to be stored as a gas or a liquid and when produced using solar or wind energy, hydrogen is a means of storing this energy for use when it is needed.

When converted to a liquid, hydrogen can be transported by trucks or ships. This means hydrogen could be exported overseas, effectively making it a tradable energy commodity.

However, although hydrogen is environmentally friendly and renewable, until recently it has been expensive to produce and difficult to store. This presentation will cover recent developments in processes and equipment for hydrogen production, storage, and transportation.

Registration: <https://engineersaustralia.org.au/event/2020/07/green-hydrogen-fuel-and-energy-export-32256>

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The Future of Batteries from a Chemistry and Safety Perspective

Webinar by the Engineers Australia

Wednesday, 26 August 2020, 17:00 AEST

The battery market is very dynamic and can experience abrupt changes derived from disruptive advances in battery materials. This presentation will begin with a brief history of the evolution of the lithium-ion battery chemistries, with focus on key material characteristics that have enabled enhanced performance, followed by an overview of more recent battery chemistry developments, which may find increased commercial output once a few remaining technological challenges are addressed.

Key safety considerations will also be explored given the expected implementation of regulations if more widespread applications of large batteries are to take place. The presentation will finish with a succinct overview of battery-related activities taking place at the Queensland University of Technology.

Registration: <https://engineersaustralia.org.au/event/2020/06/future-batteries-chemistry-and-safety-perspective-31391>

News



Visionary plan for future container port endorsed by Government

The McGowan Government has endorsed the independent Westport Taskforce's recommended location and design for a future container port at Kwinana

The final report has recommended a land-backed port be built within the Kwinana Industrial Area, connected by an uninterrupted freight corridor via Anketell Road and Tonkin Highway.

Work will now proceed to determine the timetable of transitioning freight from Fremantle Port to Kwinana. The transition will occur either in one step by 2032 or over a phased period that will see both ports share the freight task for around a further 15 years.

Last year the Westport Taskforce found that even with billions of dollars' worth of road upgrades, the transport network supporting the Fremantle Inner Harbour would reach capacity by the mid-2030s.

The Westport Taskforce has found that a Kwinana container port will need to be operational by around 2032, meaning planning for a future container port must get underway now.

The recommendations of the Westport Taskforce are the result of the most rigorous investigation into WA's freight needs in the State's history, including two years of significant technical data collection, and extensive consultation and collaboration with industry, local government and the community.

Media statement:

<https://www.mediastatements.wa.gov.au/Pages/McGowan/2020/08/Visionary-plan-for-future-container-port-endorsed-by-Government.aspx>

Westport Taskforce's final report: <https://www.mysaytransport.wa.gov.au/westport>

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