



RINA/IMarEST Technical Presentation

Investigation of Sediment Transport Processes near Tidal Energy Devices

Presenter	Christelle Auguste PhD Candidate Australian Maritime College
Date	Wednesday 3 June 2020
Time	6:30 pm
Meeting	This presentation will be held as a video-conference webinar using WebEx software hosted by Engineers Australia. Registration for the presentation is required (see below).

This presentation will give an overview of tidal energy devices, both worldwide and in Australia, and then look at why sediment transport is an important consideration in protecting the environment and some of the challenges in the investigation. The objectives and methods used in the research will be outlined, and an overview given of an idealised channel in order to understand the modelling.\

High-resolution numerical models have been as created of the Banks Strait, between Clarke Island in the Furneaux Group and Cape Portland on the north-east tip of Tasmania and the Clarence Strait, between Melville Island and North West Vernon Island, north of Darwin in the Northern Territory. This involved field data collection in the Banks Strait, numerical modelling and validation with the field data, and checking the influence of tidal turbines on the hydrodynamic parameters. The next steps will be calibration of the sediment transport model and then running model simulations for results.

Registration Registration for this presentation may be completed at

<http://www.cvent.com/events/investigation-of-sediment-transport-processes-near-tidal-energy-devices/event-summary-e5755be6019b4ff98da34cbcf371409.aspx>

Click on *View More Information or Register*, and enter your first and last names and email address, and click Next on subsequent screens and Finish.

When registered, you will receive a confirmation email containing the URL and password for the webinar.