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**THE ROYAL INSTITUTION OF NAVAL ARCHITECTS
LONDON BRANCH**

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THURSDAY, 28 APRIL 2022

**CHALLENGES FOR SHALLOW WATER MARINE
OPERATIONS – ROLE OF MARINE WARRANTY**

by

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REGISTER:

<https://us02web.zoom.us/meeting/register/tZErdeihqTkiHd3MULKixaUihnQsgImvAPW7>

At 17:55 for 18:00 hours (duration approximately 1 hour) UK Time.

***This presentation will be preceded by the RINA London Branch AGM
commencing at 6pm.***

Shallow water marine operations are quite common in offshore oil and gas and renewable projects be it beach pulling of a pipelay, landfall of a cable, tow in rivers or navigation channels, installation of offshore windfarm structures or float over operations. Operations in shallow water present several challenges. For example, pulling of a cable in a landfall can be severely affected by ability of cable lay vessel to work in shallow water as water depth near shore areas can be very low and further constrained by tidal variations. Towing of a large offshore structure on a barge in a navigation channel can be challenging due to limited under keel clearance or narrow width of the channel which sometimes further compounded by sharp curvatures of the channel.

This presentation provides an insight into specific challenges of shallow water operations for each of the above categories which need to be investigated in planning, design, and analyses stages of shallow water operations for their success. Illustrations are presented from shallow water pipelay, cable lay, tow and installations. Finally, some details are provided on role of marine warranty in making these operations successful.