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



Hon. Secretary.: Ms. Lourdes Elona-Lilley (Nina), CEng FRINA
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THURSDAY, 13 SEPTEMBER 2018

**“FLOATING INFRASTRUCTURE FOR FLOATING
WINDFARMS”**

By

JUSTIN JONES, MIMechE
CONSULTANT, PETROFAC

Meeting to be held at

ABS, 1 Frying Pan Alley, London, E1 7HR

At 17:45 for 18:15 hours (duration approximately 1 hour)

Commercial scale floating windfarms will require extensive electrical infrastructure to connect the offshore wind turbines to the onshore grid. This will include a requirement for floating substations, to which the array cables from the floating turbines and the high voltage export cables to the shore will be connected. So far, only a few small scale floating substations in the tens of megawatts have been produced, but this will need to increase to around 500MW to support the size of windfarm that has been postulated.

*As with floating turbines, the floater motion is important for the operation of the electrical equipment. A review of the operating requirements of the electrical equipment will be presented, along with the hull options for floating substations and the resulting motions. The issues with dynamic cables, bend stiffeners and marine growth will also be considered. **ALL ARE WELCOME***

PLEASE CONTACT THE HONORARY SECRETARY, MS. LOURDES ELONA-LILLEY, FRINA AT london.rina44@gmail.com FOR BOOKINGS AND ADVISE IF A CONTINUING PROFESSIONAL DEVELOPMENT (CPD) CERTIFICATE IS ALSO REQUIRED.

PLEASE ALSO ADVISE YOUR COMPANY OR SOCIETY AFFILIATION. IF YOU ARE STUDENT, PLEASE INFORM YOUR UNIVERSITY/COLLEGE AFFILIATION.

PRE-BOOKING IS ESSENTIAL PLEASE CIRCULATE.