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

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***THURSDAY, 10 November 2022***

# **“Second Generation Intact Stability Criteria”**

by

**Andrew King,**

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UKITSO Marine & Offshore  
Lloyd’s Register**

*Meeting to be held at*

***RINA HQ, 8-9 Northumberland Street, London, WC2N 5DA***

***at 17:30 for 18:00 hours (duration approximately 1 hour)***

***Pre-meeting buffet***

**Register for the “In-person” event:**

<https://bit.ly/3f6xvRZ>

**Register for the Zoom presentation:**

<https://us02web.zoom.us/meeting/register/tZUlcOqvpi4rHNIAUtKb0hyAgOy73TMylS2L>

This presentation will cover the development, discussion, and thoughts on the new Second Generation Intact Stability Criteria. This has been developed as a follow-on from the conventional 'first-generation' intact stability criteria which only considers the conventional stability of a vessel on a flat, calm sea. The new stability criteria aim to include the consideration of dynamic stability phenomena; namely Parametric Roll, Pure Loss of Stability, Surf-Riding and Broaching, Excessive Acceleration and Dead Ship. The presentation will discuss the methodology of the new criteria, their application logic and share some examples. Finally, we will discuss what it means for industry, crew, and general Ship Design.