

## **Session – New Applications**

**Title:**           **Close-In Precision DP using Wave Feed Forward: STLVAST Phase 2 & 3**

**Authors:**       **Dr. Greg Hughes** *Oceaneering International Inc. (Hanover, MD)*  
**Dr. Rick Harris** *MAPC (Baltimore, MD)*  
**Ir. Frans Quadvlieg** *MARIN (Wageningen, The Netherlands)*  
**Ir. Rink Hallmann** *MARIN (Wageningen, The Netherlands)*

### **Abstract**

Following from last year's presentation [1], the STLVAST team will discuss the development of an innovative method of improving DP positioning accuracy using only sensors and control algorithms. Based on the estimation of wave drift forces using wave height sensing and the application of a wave feed forward control loop, the positioning of a vessel in a seaway is improved. This technique is also applied to the challenge of controlling two large vessels, running alongside, at ahead speeds. This work is funded by the US Navy Office of Naval Research.

**Click below to:**

**[Review the complete paper](#)**

**[Review the presentation](#)**

**[Return to the Session Directory](#)**