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## ***“Offshore Engineering and AI”***

By

**Yong Bai**

*President of Offshore Pipelines & Risers Inc.*

**Date: Tuesday, 17 December 2019**  
**Time: 4:30 pm to 6:00 pm**  
**Venue: EA 06-03**  
**Faculty of Engineering,**  
**National University of Singapore**

### **Abstract**

This is a comprehensive introduction to the latest research Prof. Bai has been engaging on marine equipment and ocean artificial intelligence, focusing mainly in Offshore-Platform and Drilling Equipment, Subsea Pipelines and Umbilicals, Underwater Engineering, Ocean Artificial Intelligence, and Mechanics and Offshore Engineering.

Prof. Bai has achieved many innovative research outcomes in high-end offshore engineering equipment. For example, Subsea Flexible Composite Pipeline is a new type of composite pipe that has emerged internationally in recent years. Prof. Bai will introduce his research in various aspects of subsea pipelines and umbilicals, with the focus on steel reinforced flexible pipe and deep-water glass-fiber-reinforced composite pipe.

In the rise of "Artificial Intelligence" as a national strategy in subsea engineering, Prof. Bai has also been conducting research on intelligent unmanned ships, dynamic positioning systems, and offshore pipeline LDS.

### **About the speaker**



Professor Yong Bai is the president of Offshore Pipelines & Risers Inc. (OPR) with offices in Houston and Hangzhou, and the director of the Offshore Engineering Research Center at Zhejiang University. He has previously taught at Stavanger University and worked with ABS, DNV, Shell International E&P, JP Kenny and MCS. He is the author of several books, "Marine Structural Design", "Subsea Pipelines and Risers" and "Flexible Pipes", and more than 100 papers on the design and installation of subsea pipelines and risers.

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