



## **Title: ROV-Assisted Rigging: Developing Innovative Solutions for Safety and Reliability**

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The daily tasks in the Oil & Gas offshore construction industry include the safe and reliable lifting and lowering of loads, as well as their movement and precise positioning - even in adverse underwater conditions. Controlling these operations using remotely operated vehicles (ROVs) with gripping devices at depths of up to several thousand meters, places the highest demands on people and material.

These specific demands became in the past increasingly apparent through the loss or damage of valuable equipment by the accidental opening of hooks, as documented i.a. in several IMCA papers and incident reports. In addition to entangling or snagging risks, the operation that requires both ROV arms to control and manipulate the loads was cumbersome and time consuming. Ultimately, compromising safety and leading to high and avoidable costs.

The present work describes the development of a novel approach, which has been initiated by RUD in cooperation with Subsea 7 resulting in a product that meets both the operational safety and speed of use requirements that are currently missing from the industry. This innovative hook features an unconventionally outwards opening safety latch and is operated by pressing a trigger or pulling on a lanyard for operational flexibility. The safety latch closes and most importantly, locks automatically, when releasing the triggering mechanism.

This important innovation promises to set the standard for the next generation of ROV friendly subsea hooks in terms of safety, ease of use and reliability.

### **Biography**

David Jaramillo holds a Master in Naval Architecture from the University of Hamburg. He has more than 25 years experience in the maritime and offshore sector, He also holds an MBA in Sustainability Management from the University of Lüneburg. After more than 17 years at German classification society Germanischer Lloyd Mr. Jaramillo works since 2013 for the German chain manufacturer RUD Ketten, as Manager Business Development for the Offshore and Maritime sector.

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Session name/ number: Track 9-5 Remotel Operated Underwater Vehicles

Category: (Oral presentation/ Poster presentation): Poster Presentation