

## MAJOR TOPICS: HOW DIGITALIZATION IS CHANGING OUR WORLD OF OFFSHORE AND MARITIME PROJECT DELIVERY, OPERATIONS AND LIFE EXTENSION.

Main COMPONENTS	ITEMS	KEYNOTES / INVITED
<b>A. OPENING PANEL: STRATEGIC VIEW OF THE FUTURE</b>	DAY 1 -morning	LEADER'S VIEW OF THE FUTURE AND THE POTENTIAL FOR 'DIGITALIZATION':
	1) OFFSHORE	The Need for Commercial and Environmental Breakthroughs from Design through Operate
	2) SHIPPING	Continuing the Significant Chances on the High Seas
	3) PORTS	Knowing What to Plan and Build Infrastructure For

<b>B. DELIVERING MAJOR OFFSHORE FACILITIES: Monitoring, standardization, digitalization, Artificial Intelligence and Automation</b>	DAY 1 -pm	<b>Offshore Facilities : REVOLUTIONS IN DELIVERY to OPERATIONS</b>	EXCEEDING OTHER INDUSTRIES: How to push the Offshore Industry to Efficiencies and Environmental Sensitivities Rivaling other Industries (like Manufacturing). Opportunities possible in Smaller Contractors vs Major Shipyards vs Turnkey Providers (of FPSOs) -- what can be reasonably expected and aspired to.
			BRIEF OPENING REMARKS FROM CHAIR SETTING EXPECTATIONS for the SESSION
	1) NICHE CONTRACTOR DELIVERY		NICHE CONTRACTORS Focused/ smaller shipyard / and how they achieve BREAKTHROUGHS
	2) MAJOR CONSTRUCTION DELIVERY AND VALUE ADDED APPLICATION		PRACTITIONERS: Practical Applications of "Digitization" to add value in Construction and Commissioning from a Practitioners Point of View
	3) THE CHANGING DELIVERY IN MAJOR SHIPYARDS		MAJOR SHIPYARDS: Advances in standardization, automation, Vendor tracking, 4D, 5D and Commissioning in Major Shipyards
	4) TURNKEY DELIVERY IN THE FPSO WORLD		TURNKEY PROVIDERS: How the FPSO turn-key providers are accomplishing the promise of "digitalization" from concept thru de-commissioning
	5)INDUSTRIALIZATION IN THE OFFSHORE WIND INDUSTRY		BUILDING 100s of IDENTICAL FLOATING UNITS: How digitalization will enable standardization and will be essential to the emergence of the floating wind industry.
			SESSION SUMMARY & OPPORTUNITIES and CHALLENGES LEAD BY CHAIR

<b>C. MAJOR OFFSHORE FACILITIES: Unmanned Facilities and Life Extension</b>	DAY2 -am	<b>OFFSHORE REVOLUTIONS IN SUBSEA and UNMANNED FACILITIES</b>	Offshore Subsea has achieved Impressive Advances on Placing Massive Facilities on the Sea Floor. Opportunities in Continuing the advancements in Unmanned Facilities, Major Subsea Facilities, and Associated Support Strategies and Operations. Associated Challenges in support operations and technologies.
			BRIEF OPENING REMARKS FROM CHAIR SETTING EXPECTATIONS for the SESSION
		1) The Final Frontier in Remotely Operated Subsea	SUBSEA : Norwegian Subsea Delivering Mega Subsea Gas Facilities with breakthrough Technologies
		2) Unmanned Facilities in the North Sea	SHELL's Successes in Unmanned Fixed Platforms in the North Sea : Paving the way for Deepwater Floaters
		3) Digitalization Breakthroughs in Interventions / Maintenance	SUPPORT OPERATIONS: DP/ Walk-to-Work Facilities: The Success of Walk-to-Work; Operational Advances; Challenges
		4) Automated Wind Facilities	DELIVERING REMOTELY OPERATED FACILITIES: Offshore Wind as Leaders in Delivery of Unmanned Floaters; Using digitalization to remotely control units, maximize energy production; Remote monitoring and inspection management.
		5) Breakthroughs in Autonomous Vehicles	SUPPORT TECHNOLOGIES: Breakthroughs in Robotics; Monitoring; Inspection; Repairs and Underwater Autonomous Vehicles
			SESSION SUMMARY & OPPORTUNITIES

<b>D. THE POTENTIAL FOR 'DIGITAL TWINS'</b>	DAY 2: pm		The use of "digital twins"; can enable fundamental changes in the nature of shipping to improve safety, environment, effectiveness, compliance, and risk management.
			<b>BRIEF OPENING REMARKS FROM CHAIR SETTING EXPECTATIONS for the SESSION</b>
		1) Building and Using Digital Twins	Digital twins should be built in a collaboratively between the SMEs, users, and data engineers. Better implementations address cross-system and cross-organization knowledge management systematically.
		2) Digital Twins and Class and Regulatory Compliance	Digital twins are tools for advancing the use of functional or goal-based standards for Class and IMO (Flag State) compliance in design and operation.
		3) Digital Twins—Use in the Real World, Pt. I Operations	<p>All models are wrong, some are useful: Digital twins are representations of a physical or cultural world.</p> <p>The operator, ship, and digital twin will evolve during the life to the ship and the organization. Better implementations will aid in evolution and advancement.</p> <p>A digital twin can change the ways of working for an operator. It does not change the amount of work onboard — it changes what is done and the selection process.</p>
4) Digital Twins—Use in the Real World Pt. II, Design and Construction.	<p>Shipyards and OEMs are increasingly asked to provide more organized and structured data and information at delivery.</p> <p>Shipyards typically use powerful design systems that are tied into design, ERP, and MRP systems.</p> <p>These systems can assist in building the operator’s digital twins.</p>		
<b>E. CLOSING PANEL FOR ALL TOPICS 4:20 -5:30</b>		<b>OVERALL TAKE-AWAYS FROM STRATEGIC, PROJECT DELIVERY AND OPERATIONS</b>	