



THE ROYAL
INSTITUTION
OF NAVAL
ARCHITECTS

RINA UAE BRANCH EVENT TECHNICAL SEMINAR

2025



SCAN REGISTER



SCAN MAP



THE ROYAL
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Technical SEMINAR

RINA UAE BRANCH EVENT 2025



SPEAKER I
MR. HAMIDREZA SAADAT
Technical Manager, NWE

TOPIC:
"AI-Assisted Visual Assessment and
Durability Mapping of Protective
Coatings in Marine Environments,
Aligned with Asset Integrity
Management (AIM)"



SPEAKER II
MR. TOMS JACOB
Senior Naval Architect, MCDERMOTT

TOPIC:
"Station Keeping System Design for
Stalk-On Riser Installations in
Congested Offshore Fields"



SPEAKER III
MR. JACOB GEORGE NELICKAL
Senior Engineer, DNV

TOPIC:
"Nomograms in Self-Elevating Units:
Practical Applications for Efficiency
and Operational Insight"

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Invitation



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06:30 PM - 07:00 PM	Registration
07:00 PM - 07:05 PM	Welcome Address RAJESH V. PANICKER, MRINA <i>Secretary - RINA UAE Branch</i>
07:05 PM - 07:25 PM	PRESENTATION 1 MR. HAMIDREZA SAADAT <i>Technical Manager, NWE</i> TOPIC: <i>"AI-Assisted Visual Assessment and Durability Mapping of Protective Coatings in Marine Environments, Aligned with Asset Integrity Management (AIM)"</i> Q & A
07:25 PM - 07:35 PM	
07:35 PM - 07:55 PM	PRESENTATION 2 MR. TOMS JACOB <i>Senior Naval Architect, Mcdermott</i> TOPIC: <i>"Station Keeping System Design for Stalk-On Riser Installations in Congested Offshore Fields"</i> Q & A
07:55 PM - 08:05 PM	
08:05 PM - 08:25 PM	PRESENTATION 3 MR. JACOB GEORGE NELICKAL <i>Senior Engineer, DNV</i> TOPIC: <i>"Nomograms in Self-Elevating Units: Practical Applications for Efficiency and Operational Insight"</i> Q & A
08:25 PM - 08:35 PM	
08:35 PM - 08:40 PM	CLOSING REMARKS ASHIK SUBAHANI, CENG, FRINA <i>Chairman - RINA UAE Branch</i>
08:45 PM	NETWORKING DINNER <i>Sponsored by:</i> <i>Nord Welding & Engineering (NWE)</i>

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Program.

07:05 PM - 07:25 PM

**THE ROYAL
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Prime Business Center, JVC, Dubai, UAE**PRESENTATION TOPIC I:****“AI-ASSISTED VISUAL ASSESSMENT AND DURABILITY MAPPING OF
PROTECTIVE COATINGS IN MARINE ENVIRONMENTS, ALIGNED
WITH ASSET INTEGRITY MANAGEMENT (AIM)”****PRESENTER PROFILE:**

Hamidreza Saadat is Technical Manager at NWE with 25+ years of experience in asset integrity for offshore and marine facilities. His expertise includes corrosion/coatings inspection planning, Risk-Based Inspection, and Fitness-for-Service assessments. He has led projects across the GCC and Caspian. Notably, he is the only professional in the world awarded the CSWIP Senior Plant Inspector Certificate.

PRESENTATION ABSTRACT:

Subjective coating surveys and limited access often undermine consistent maintenance planning for marine assets. This presentation introduces an AI-assisted workflow that transforms imagery from handheld devices, confined-space drones, and crawler/ROVs into objective coating condition grades and durability maps. A supervised vision model detects blistering, flaking, cracking, rusting, and under-film corrosion, outputs ISO 4628 defect ratings, and correlates results to ISO 12944 corrosivity classes to estimate remaining service life. Deliverables—annotated frames, heat maps, and CMMS-ready recoating lists—enable defensible prioritization, trend analysis, and risk-based, cost-effective repainting during planned shutdowns.

Speaker 1.

07:35 PM - 07:55 PM



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MR. TOMS JACOB

Senior Naval Architect

MCDERMOTT

Dubai, United Arab Emirates

PRESENTATION TOPIC II:

**“STATION KEEPING SYSTEM DESIGN FOR STALK-ON RISER
INSTALLATIONS IN CONGESTED OFFSHORE FIELDS”**

PRESENTER PROFILE:

Mr. Toms Jacob is a Naval Architect with 17 years of progressive and interdisciplinary experience in maritime and offshore engineering industry. He started his career as plan approval engineer at Ship & Offshore Structures & Statutes Department at American Bureau of Shipping (ABS), Singapore. He had further worked with other classification societies, marine and offshore consultancy firms and offshore EPCI companies broadening his experience in the field of structural and statutory certifications of marine vessels and transportation and installation engineering of offshore and subsea structures. He is currently working as Senior Naval Architect at Mcdermott, Dubai, UAE.

He holds a Bachelors degree in Naval Architecture & Shipbuilding from Cochin University of Science & Technology, India. He completed his Masters degree in the field of Subsea Engineering from University of Strathclyde, Glasgow, United Kingdom and was the winner of BP Scholarship for talents in Subsea Engineering for academic year 2011-2012 at University of Strathclyde, Glasgow, United Kingdom. Toms is a Chartered Engineer with the United Kingdom Engineering Council and member of The Royal Institution of Naval Architects.

PRESENTATION ABSTRACT:

Stalk-on riser installation method is typically employed where flanged connections at the pipeline-riser interface are precluded by specific client or field requirements. Offshore field expansions frequently necessitate the installation of new subsea structures and platforms in proximity to existing ones. Often, risers for these new platforms are installed using the stalk-on method due to above mentioned stipulations.

This presentation will provide insights into stalk-on riser installation stages, station keeping system selection assessments, design considerations and adopted solutions based on case study of one of the largest and critical stalk-on riser installation carried out in the Arabian Gulf near an active offshore production complex.

Speaker 2.

08:05 PM - 08:25 PM



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JACOB GEORGE NELICKAL

Senior Engineer

Det Norske Veritas - DNV

Dubai, United Arab Emirates

PRESENTATION TOPIC III:

“NOMOGRAMS IN SELF-ELEVATING UNITS: PRACTICAL APPLICATIONS FOR EFFICIENCY AND OPERATIONAL INSIGHT”

PRESENTER PROFILE:

Jacob is a Structural Engineer and Naval Architect with over 14 years of experience in the design and verification of offshore structures.

He holds a Master's degree in Naval Architecture and Ocean Engineering and has led design reviews and approvals across a wide range of projects, including jack-up drilling rigs, lift boats, WTIVs, MOPUs, and other mobile offshore units. He also brings hands-on experience as a surveyor for newbuilds and conversion projects. Jacob is currently a Senior Approval Engineer at DNV Dubai, specializing in offshore assets

PRESENTATION ABSTRACT:

- Practical usage in design and operation
- Benefits for performance, decision-making, and structure longevity
- Insights from class society perspectives

Speaker 3.