



# ASME® AIM-ALE 2021

Asset Integrity Management -  
Ageing and Life Extension Conference

CONFERENCE  
Nov. 30–Dec. 02, 2021

Online, Virtual

All times are shown in EST

## DAY 1 - Tuesday, November 30, 2021

### Welcome & Opening Keynote

7:00am - 7:30am	Thomas Costabile, ASME CEO
	Mamdouh Salama, Conference Chair
	Alexander Stacey, Conference Co-Chair
	Gerhard Ersdal, Conference Co-Chair

### Session 1 - Life Extension - Regulatory and Class Considerations

7:30am - 10:00am	Session Chair	John	Sharp	
	Session Co-Chair	Adel	Younan	
	AIM-ALE2021-76973	Structural Integrity Management of Ageing Offshore Structures: A Regulatory Perspective	Alexander	Stacey
	AIM-ALE2021-77742	Offshore Industry Initiatives on Ageing and Life Extension	Cameron	Stewart
	AIM-ALE2021-76757	UK Regulatory Initiative on Extreme Weather Loading of Offshore Installations in the North Sea	Alexander	Stacey
	AIM-ALE2021-77757	Learnings From the Performance of Fixed Steel Structures in Gulf of Mexico Hurricanes	Frank	Puskar
	AIM-ALE2021-76201	Production Riser Life Extension – A Class Perspective	Hao	Song

10:00am - 10:30am

BREAK

### Session 2 - Ageing & Life Extension of Offshore Structures

10:30am - 1:00pm	Session Chair	Cameron	Stewart	
	Session Co-Chair	Gerhard	Ersdal	
	AIM-ALE2021- 76756	Integrity Management of Ageing Offshore Structures: Technical Developments and Challenges	Alexander	Stacey
	AIM-ALE2021-75116	Life Extension of Mooring Chains - Including Effects of Mean Load and Corrosion Condition to Fatigue	Øystein	Gabrielsen
	AIM-ALE2021-75876	Lifetime Extension of Mooring Anchors	Øystein	Gabrielsen
	AIM-ALE2021- 76217	Digital Transformation by the Implementation of the True Digital Twin Concept and Big Data	Ulf	Tyge
	AIM-ALE2021- 77155	Estimating Stress Intensity Factor for Semi Elliptical Circumferential Cracks in Offshore Wind Turbine Monopiles using Weight Functions	Ayodele	Fajuyigbe

## DAY 2 - Wednesday, December 01, 2021

### Session 3 - Extreme Environmental Loading Conditions

7:00am - 10:00am	Session Chair	Frank	Puskar	
	Session Co-Chair	Alexanderander	Stacey	
	AIM-ALE2021-77776	Extreme Environmental Loading Part II: Long-Term Distributions of Crests, Kinematics and Loads	Richard	Gibson
	AIM-ALE2021-77749	Implications of the Loads JIP on Extreme Wave Conditions in the North Sea	Graham	Feld
	AIM-ALE2021- 77758	An Improved Method of Establishing Extreme Metocean Conditions in Gulf of Mexico	Oliver	Jones
	AIM-ALE2021- 74944	Establishing unmanning criteria for a jacket structure on the NCS	Gunnar	Lian
	AIM-ALE2021-76076	A probabilistic Structural Reliability Assessment of Existing North Sea Platforms	Emmanuel	Fakas
	AIM-ALE2021-77759	ISO 19901-1 Petroleum and Natural Gas Industries — Specific Requirements for Offshore Structures — Part 1: Metocean Design and Operating Considerations	Donald	Smith

10:00am - 10:30am

BREAK

### Session 4 - Ageing of Production and process Facilities

10:30am - 1:00pm	Session Chair	Agnes Marie	Horn	
	Session Co-Chair	Mamdouh	Salama	
	AIM-ALE2021-77756	New Guidelines on Fatigue Life of Ageing Pressure Vessels	John	Wintle
	AIM-ALE2021- 75277	Impact of Changes in Fluid Composition Due to Presence of Mercury on Integrity Management of Gas Pipelines	Rohana	Jaafar
	AIM-ALE2021- 75274	Piping PE Lining Failure at Cooling Water System in Floating LNG	M Hawari	Hasan
	AIM-ALE2021- 75314	Challenges in Surface Facilities Sand Management and Approach in Mature Oil Field	Wan Mahsuri	Wan Hashim
	AIM-ALE2021- 74234	Evaluation of Flange Leakage due to Thermal Bowing	Yuqing	Liu

## DAY 3 - Thursday, December 02, 2021

### Session 5 - IMR of Marine Structures

7:00am - 10:00am	Session Chair	Jens	Tronskar	
	Session Co-Chair	John	Wintle	
	AIM-ALE2021- 76994	Inspection-Based Life Extension of Offshore Jacket Fleets	Adel	Younan
	AIM-ALE2021-77044	Reliability-Based Inspection Intervals of Offshore Jacket Fleets	Adel	Younan
	AIM-ALE2021-66580	Underwater inspection and repair for ageing offshore structures	John	Sharp
	AIM-ALE2021-74969	Inspection, Maintenance, and Repair of Ageing Concrete Oil and Gas Installations on the Norwegian Continental Shelf	John	O'Malley
	AIM-ALE2021- 76219	Repair methods for loadbearing steel structures operating on the Norwegian continental shelf	Arne	Fjeldstad

10:00am - 10:30am

BREAK

**DAY 1 - Tuesday, November 30, 2021**

**Session 6 - Ageing & Life Extension of Pipelines**

10:30am - 12:30pm		Session Chair	John	Wintle
		Session Co-Chair	Mamdouh	Salama
	AIM-ALE2021-76358	Lifetime extension of the Norpipe oil transportation system (Oral Presentation)	Anne-Berit	Kobbeltvedt
	AIM-ALE2021-77600	Re-Qualifications of Existing Pipelines for CO2 and H2 Transport, Structural Integrity Challenges	Agnes Marie	Horn
	AIM-ALE2021- 76193	Inspection and Remaining Life Assessment of Subsea Pipelines Exposed to Various Forms of Internal	Jens	Tronskar
	AIM-ALE2021-74399	Life extension and integrity management of ageing export pipelines	Gerhard	Ersdal

**DAY 4 - Friday, December 03, 2021**

**Panel discussion - Ageing and life extension, remaining gaps**

7:00am - 8:30am		Session Chair	Mamdouh	Salama
		Session Co-Chair	Gerhard	Ersdal
		Panelists	Emmanuel	Fakas
		Panelists	Graham	Feld
		Panelists	Ramsay	Fraser
		Panelists	Oliver	Jones
		Panelists	Frank	Puskar
		Panelists	Donald	Smith
		Panelists	Alexander	Stacey
		Panelists	Jens	Tronskar
		Panelists	John	Wintle
		Panelists	Adel	Younan