



# 7th Rostock Large Engine Symposium

## Timetable

Time	Topic	Speaker	Company
09:00	Opening	Prof. Bert Buchholz	LKV, University of Rostock
	<b>Session 1: General Framework</b>	<b>Lead Klaus Heim</b>	<b>Winterthur Gas &amp; Diesel Ltd.</b>
09:15	Welcome Address	Claudia Müller	Federal Government Co-ordinator for Maritime Industry & Tourism
09:30	The maritime energy transition and the large engine industry	Dr. Markus Münz	VDMA
10:00	Power-to-X - Enabler for decarbonization in high power applications	Dr. Daniel Chatterjee	Rolls-Royce Solutions GmbH
10:30	Coffee Break		
	<b>Session 2: Methanol as Marine Fuel</b>	<b>Lead Dr. Daniel Chatterjee</b>	<b>Rolls-Royce Solutions GmbH</b>
11:00	Methanol as a viable fuel option to drive carbon-neutral shipping	Prof. Gunnar Stiesch	MAN Energy Solutions SE
11:30	ABC's DZ Dual Fuel Methanol engine	Ewout De Wilde	Anglo Belgian Corporation NV
12:00	Methanol injection systems for large 4-stroke engines	Ingmar Berger	Woodward L'Orange GmbH
12:30	Lunch		
	<b>Session 3: Development Trends for Injection Equipment</b>	<b>Lead Prof. Gunnar Stiesch</b>	<b>MAN Energy Solutions SE</b>
13:45	Powering a greener future: the OMT injector enables high-pressure direct injection of ammonia and methanol	Dr. Marco Coppo	Officine Meccaniche Torino SpA
14:15	Development and Simulation of "High Pressure Gas-and/or hydrogen DI-Injectors" for large bore internal combustion engines	Erich Vogt / Bernd Niethammer	DUAP AG / ITAZ GmbH
14:45	Injection technologies for alternate fuels	Jens-Olaf Stein	Robert Bosch AG – Business Unit Large Engines
15:15	Coffee Break		
	<b>Session 4: GHG-neutral Ship Operation</b>	<b>Lead Dr. Michael Willmann</b>	<b>Woodward L'Orange GmbH</b>
15:45	Development of a GHG-neutral combustion concept exemplified by methanol	Dr. Martin Theile / Martin Drescher	FVTR GmbH
16:15	Hydrogen as a fuel – a cruise ship operator perspective	Jens Kohlmann	Carnival Maritime GmbH
16:45	Transition to new marine fuels in shipping – The ship operators view	Sebastian Ebbing	VDR (German Shipowners' Association)
18:00	Boat Tour		
19:30	Social Evening Event		

Thursday, 15.09.2022



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	<b>Key-Note</b>	<b>Lead Prof. Kai Herrmann</b>	<b>University of Applied Sciences and Arts Northwestern Switzerland (FHNW)</b>
08:30	Exhaust gas aftertreatment for future large engine fuels	Dr. Daniel Peitz	Hug Engineering
	<b>Session 5: System Requirements of New Fuels</b>	<b>Lead Prof. Kai Herrmann</b>	<b>University of Applied Sciences and Arts Northwestern Switzerland (FHNW)</b>
09:00	Ammonia as a Fuel – the role for catalytic components	Dr. Joseph McCarney	Johnson Matthey
09:30	Research approaches and methods for future fuels and lubricants in marine applications	Dr. rer. nat. Fanny Langschwager	University of Rostock, LKV
10:00	Coffee Break		
	<b>Session 6: Marine and Stationary Energy Systems</b>	<b>Lead Dr. Marco Coppo</b>	<b>Officine Meccaniche Torino SpA</b>
10:30	Upgrade of lean-burn gas engines to future hydrogen admixture in the natural gas grid	Dr. Marco Schultze	Caterpillar Energy Solutions GmbH
11:00	Optimization of the HyMethShip system using the simulation platform LEC ENERsim	Dr. Nicole Wermuth	LEC GmbH
11:30	The low-speed two-stroke engine in a hybrid setup: The engine designer's approach to system integration	Stefan Goranov	Winterthur Gas & Diesel AG
12:00	Lunch		
	<b>Session 7: Fundamental Research in Injection Technologies for Alternative Marine Fuels</b>	<b>Lead Prof. Andreas Wimmer</b>	<b>TU Graz</b>
13:15	AmmoniaMot – Experimental investigations of an ammonia dual-fuel combustion process for decarbonization of the maritime sector	Karsten Stenzel / Harald Arndt	WTZ Roßlau / Neptun Ship Design
13:45	Comparison of pilot fuel ignited premixed ammonia vs. methane dual-fuel combustion	Silas Wüthrich	University of Applied Sciences and Arts Northwestern Switzerland (FHNW), Institute of Thermal and Fluid Engineering (ITFE)
14:15	Fundamental combustion studies on alternative fuels for low-GHG ships	Dr. Satoshi Kawauchi	National Institute of Maritime, Port and Aviation Technology (MPAT), Japan
14:45	Coffee Break		
	<b>Session 8: Wear Detection &amp; Reduction Measures</b>	<b>Lead Dr. Christian Reiser</b>	<b>WTZ Roßlau gGmbH</b>
15:15	Combination of physical and virtual sensors for the condition-based monitoring of large engine sliding bearings	Dr. Horst Brünnet	Schaller Automation Industrielle Automationstechnik GmbH & Co. KG
15:45	From severe wear to a lifetime of 32,000 running hours: Field study on valve spindles in lean-burn gas engines	Jan-Peter Edelmann	Märkisches Werk GmbH
16:15	Closing Words	Prof. Bert Buchholz	University of Rostock, LKV

Friday, 16.09.2022