## Tuesday, September 10, 2024

	Plenary Room		
Time	Event		
9:00 - 9:10	Welcome by FRIENDSHIP SYSTEMS		
9:10 - 10:40	<ul> <li>Hanno Gottschalk, Technical University of Berlin, Chair for Mathematical Modeling of Industrial Life Cycles KEYNOTE : Generative AI and Mechanical Engineering</li> <li>Martin Fischer, INEOS Britannia</li> <li>Simulation-Driven Design of an AC75: Challenger of Record for the 37th America's Cup</li> <li>David Bendl, Voith Turbo Marine</li> <li>The Application of CAESES from the Perspective of a Propeller Maker</li> </ul>		
10.40 11.10	Coffee Break		
10:40 - 11:10	Сојјее Бейк		
11:10 - 12:30	Paulo Macedo, Kongsberg Maritime Navigating the Hydrodynamics Workflow in Early Ship Design		
	Khairi Deiri, SimScale; Mattia Brenner, FRIENDSHIP SYSTEMS Optimization of a Pin Fin Heat Sink using Simulation in the Cloud		
	Simon Hauschulz, FRIENDSHIP SYSTEMS (on behalf of Navist Engineering) Aerodynamic Performance Optimization of a Commercial Aircraft with a Fully-Parametric CAD Model		
12:30 - 14:00	Lunch Break		
14:00 - 14:30	<b>Breakout Sessions Block 1</b> Meet the Team of FRIENDSHIP SYSTEMS and Insights [Plenary Room and Rooms 1 and 3]		
14:30 - 14:40	Switching Rooms		
14:40 - 15:10	<b>Breakout Sessions Block 2</b> Meet the Team of FRIENDSHIP SYSTEMS and Insights [Plenary Room and Rooms 1 and 3]		
15:10	Group Photo		
15:15 - 15:45	Coffee Break		
15:45 - 17:15	Sponsor Presentation - Tecplot		
	FRIENDSHIP SYSTEMS Release News and Roadmap		
	Samuel James, GridPro Automated Structured Meshing for Variable CAD Geometries Using Control Points from CAESES		
	Stig Knudsen, Technical University of Denmark Dynamic Fluid-Structure Interaction of Racing Sailboats		
starting 18:30	Social Event - Conference Dinner Mediterranean ambient & food, networking & musical entertainment from "Die Guten" Venue: Restaurant El Puerto , address: Lange Brücke 6 , 14467 Potsdam		

## Wednesday, September 11, 2024

	Plenary Room	Room 1	
Time	Event		
9:00 - 10:30	<ul> <li>Francesco Coslovich, Flowtech</li> <li>Performance Predictions of Wind-Powered Ships in</li> <li>Waves: a Step Towards a Multipurpose Seakeeping</li> <li>Software</li> <li>Dimitris Ntouras, SimFWD Engineering Services</li> <li>RETROFIT55: Decarbonization Solutions to Achieve</li> <li>55% GHG Reduction in the Maritime Industry</li> <li>Hannes Renzsch, FRIENDSHIP SYSTEMS</li> <li>Topology and Shape Optimization of an Air Lubrication</li> <li>System</li> <li>Nuttarat Vichanphruek, Lennard Bösch Skytøen,</li> <li>VARD Design</li> <li>Hull Form Optimization for VARD ZeroClass</li> </ul>	Carsten Fütterer, FRIENDSHIP SYSTEMS (on behalf of Johannes Ratz, TU Darmstadt/IHI) Concurrent Optimization of Impeller, Vaned Diffuser, and Volute Casing to Improve the Efficiency of a Compressor Stage Toni Klemm, KSB A Simple Pump Impeller Performance Surrogate Model Eva Bilkova, Czech Technical University in Prague Enhanced Performance of Pump as Turbines through Runner Optimization: A Novel Approach	
10:30 - 11:00	Coffee Break		
11:00 - 12:30	Dae Hyun Kim, ABS - American Bureau of Shipping ABS CFD-Based Hull Form Optimization for Improving Vessel Energy Efficiency Anna-Sophia Büscher, DEKC Maritime/TU Berlin Multi-Objective Optimization of a Multi-Purpose Heavy Cargo Ship Karolina Bierkowska, Gdańsk University of Technology Application of Artificial Neural Networks to the Assessment of Ship Stability Using the IMO Second Generation Criteria in the Early Stages of Ship Design	Heinrich von Zadow, FRIENDSHIP SYSTEMS Elektroboot Eins: Tip-Rake Propeller Design for an Ultra-Light Electric Boat Mathias Vangö, Convergent Science; Andreas Arapakopoulos, FRIENDSHIP SYSTEMS H1 Unlimited: Designing a Surface-Piercing Propeller for Speeds of over 300 km/h Wouter Remmerie, AirShaper Improving Propeller Efficiency - Surrogate Model Based Optimization Using AirShaper CFD	
12:30 - 14:00	Lunch Break		
14:00 - 15:30	Thomas Hildebrandt, NUMECA Ingenieurbüro <i>KEYNOTE</i> : Trends and Challenges in Turbomachinery CFD – and the Differences to Marine Simulations Matthias Bauer, NAVASTO AI/ML for Marine Applications: Data Driven Approaches for Complex Engineering Challenges Maike Strecker, Hamburg University of Technology/SKF Marine Using Parametrized Propeller Data for Training Neural Networks		
15:30 - 15:45	Awards Ceremony and Goodbye		