

## Tuesday, November 29

<b>9:15</b>	<b>Opening and welcome address</b>	Carina Hendricks
<b>9:30</b>	Troubleshooting – failure and damage analysis of an 8-stage refinery pump	Markus Mosshammer, Helmut Benigni (Institute of Hydraulic Fluidmachinery (HFM), TU Graz)
<b>10:00</b>	Further investigation of the energy efficiency of compression packings in rotodynamic pumps	Henri Azibert (FSA), David Edwin-Scott (ESA)
<b>10:30 Coffee &amp; Networking Break/EXPO</b>		
<b>11:00</b>	<b>Workshop 1</b> <b>Topic: Optimization of pump systems</b> Panelists: <ul style="list-style-type: none"> <li>- Christopher Lynch (Code Product Solutions): Combining CFD, FEA and scripting for efficient oil vane pump integrity assessment</li> <li>- Jan Wolf (tesyo technologies GmbH): Technical Operations Research (TOR)</li> <li>- Andrey Rudenko, (HMS Group): Methods of efficient operation of double suction volute pumps in wide range of flow rates</li> </ul>	
<b>12:30 Lunch &amp; Networking Break/EXPO</b>		
<b>14:00</b>	<b>Paper Session 1</b>	
<b>14:00</b>	Ricardo O. Sousa (Department of Metallurgical and Materials Engineering, University of Porto)	Modelling the development of residual stresses in super duplex stainless steel castings
<b>14:25</b>	Jörg Paetzold (Schroeder Valves)	New generation of automatic recirculation check valves (ARC)
<b>14:50</b>	Lars Kahlmann (SKF)	State-of-the-art materials for rolling bearings used in pumps
<b>15:15 Coffee &amp; Networking Break/EXPO</b>		
<b>15:30</b>	<b>Workshop 2</b> <b>Topic: Optimization of pumps</b> Panelists: <ul style="list-style-type: none"> <li>- Frank Bungartz (Paul Bungartz GmbH &amp; Co. KG): Reduce costs, increase availability – the added value of special centrifugal pumps</li> <li>- Frank Holz (Klaus Union GmbH &amp; Co. KG): Dry running capabilities of mag drive pumps</li> <li>- Yuri Zhuk (Hardide Coatings Ltd): Nanostructured CVD coating protects pumps for oil and gas and petrochemical plants from wear, erosion and H<sub>2</sub>S corrosion</li> </ul>	

## Wednesday, November 30

9:15	Rüdiger Proff (Prüftechnik Condition Monitoring GmbH)	Prüftechnik Condition Monitoring using the example of Berliner Wasserbetriebe
9:45	Rinaldo Brivio (Sandvik Material Technology)	High machinability of stainless steel and hollow bars to improve productivity

10:15 Lunch & Networking Break/EXPO

10:45	<b>Workshop 3</b> <b>Topic: Approaches to fight problems in pump systems</b> Panelists: - Heiko Baum (FLUIDON Gesellschaft für Fluidtechnik mbH): Analysis of problems with pressure oscillations in pipe systems with variable-speed pumps - Andreas Dudlik, Carsten Ricken (Hydraulische Systeme): Water hammer in pipe systems – analysis, causes and interactions with pumps and valves - Lars Meisenbach (BestSens AG): Axial thrust monitoring of centrifugal pumps during operation	
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12:15 Lunch & Networking Break/EXPO

13:45	<b>Paper Session 2</b>	
13:45	Michael Krüger (C. Otto Gehrckens GmbH & Co. KG)	Guidelines on the optimal material selection for elastomer seals
14:10	Christoph Monka (R+W Antriebselemente GmbH)	The coupling – more than a necessary evil in the pump process
14:35	Christian Ellwein (KRIWAN Industrie-Elektronik GmbH)	Reliable and easy pump protection