2022 ROMAC ANNUAL MEETING AGENDA IN-PERSON AND VIRTUAL CHARLOTTESVILLE, VIRGINIA JUNE 21 – 23, 2022



TUESDAY, JUNE 21						
8:00 am		REGISTRATION CONTINENTAL BREAKFAST				
		WELCOME AND INTRODUCTION SESSION	N CHAIR: TBD			
8:30 am	Talk 1	ROMAC Overview Roger Fittro				
9:00 am	Talk 2	ROMAC Software Updates Neal Morgan				
9:45 am	Talk 3	Axial Subharmonic Resonance of a Screw Compressor C. Hunter Cloud, BRG Machinery Consulting				
10:15 am		Break				
		FLUID FILM BEARINGS SESSIC	N CHAIR: TBD			
10:45 am	Talk 4	Bearing Research Overview Roger Fittro				
11:15 am	Talk 5	MAXBRG+ Updates and Future Development Plans Cori Watson-Kassa				
11:45 am	Talk 6	Thrust+ Updates and Future Development Plans Cori Watson-Kassa				
12:15 pm		LUNCH				
		SEALS SESSI	ON CHAIR: TBD			
1:15 pm	Talk 7	Seal Research Overview Neal Morgan				
1:45 pm	Talk 8	AnnularSeal Updates and Future Development Plans Cori Watson-Kassa				
2:15 pm	Talk 9	AnnularSeal - Industrial Verification Examples TBD				
2:45 pm		Вгеак				
		BEARINGS & SEALS SESS	SION CHAIR: TBD			
3:15 pm	Talk 10					
3:45 pm	Talk 11	ROMAC Code Case Study - MAXBRG+ Validation with Reduced Oil Flow Stability Test Rig Data Zihao Huang				
4:15 pm	Talk 12	ROMAC Code Case Study - MAXBRG+ Validation with Direct Lubrication Experimental Results Pedro Herrera				
6:00 pm		ROMAC HOSTED RECEPTION AND DINNER				

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8:00 am		CONTINENTAL BREAKFAST	
		Seals	SESSION CHAIR: TBD
8:30 am	Talk 13	ROMAC Code Case Study - AnnularSeal Sensitiivity to Groove Loss Factor Nathaniel Gibbons	
9:00 am	Talk 14	Axial-Radial Numerical Modeling of Annular Seals by a Mimetic Finite Differen Neal Morgan	nce Method
9:30 am	Talk 15	Seal Test Rig Update and Testing Plan Cori Watson-Kassa and Nathaniel Gibbons	
L0:00 am		Вгеак	
		Fluid Film Bearings & Rotordynamics	SESSION CHAIR: TBD
L0:30 am	Talk 16	ROMAC Code Case Study - THRUST+ validation with CFD and Experimental Da Xin Deng	ta
11:00 am	Talk 17	ROMAC Code Case Study - THRUST+ Validation with Glavatskikh Experimental Results Neal Morgan	
L1:30 am	Talk 18	Fluid-Film Bearing Test Rig Torsional Analysis Pedro Herrera	
2:00 pm		Силсн	
		SEALS	SESSION CHAIR: TBD
1:00 pm	Talk 19	Circumferentially Grooved Seal Flow Field Analysis Based on Effective Film Th Models Nathaniel Gibbons	nickness to Improve Bulk Flow
1:30 pm	Talk 20	Circumferentially Grooved Seal Flow Field Analysis Based on Effective Film Thickness to Improve Bulk Flo Cori Watson-Kassa	
2:00 pm	Talk 21	Quasi-Steady CFD Method for Circumferentially Grooved Seal Rotordynamic Coefficient Prediction: A Sensitivity Study Nathaniel Gibbons	
2:30 pm			
		BEARINGS & TEST RIGS	SESSION CHAIR: TBD
3:00 pm	Talk 22	Fluid-Film Bearing Test Rig Update Pedro Herrera	
3:30 pm	Talk 23	Honeywell AMB Test Rig Development and Experimental Validation Roger Fittro	
4:00 pm	Talk 24	Numerical and Experimental Analysis of Loaded Pad Starvation and Supply Oil Distribution in a Tilting Pad Journal Bearing <b>Cori Watson-Kassa</b>	
	Talk 25	Computational Modeling and Analysis of Tilting-Pad Journal Bearings Zihao Huang	

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## ENGINEERING

Department of Mechanical and Aerospace Engineering *Rotating Machinery and Controls Laboratory* 

Thursday, June 23							
8:00 am		CONTINENTAL BREAKFAST					
		Squeeze Film Dampers	SESSION CHAIR: TBD				
8:30 am	Talk 26	New ROMAC SFD Code Development Cori Watson-Kassa					
9:00 am	Talk 27	CFD Modeling of Centrifugal and Convective Inertia in Squeeze Film Dampers Kangyi Peng and Roger Fittro					
9:30 am	Talk 28	CFD Modeling of Squeeze Film Dampers Under Reduced Oil Supply Presenter: Cori Watson-Kassa Researcher: Greg Breza					
10:00 am		Break					
		FLUID-FILM BEARINGS					
10:30 am	Talk 29	Understanding the Mechanism of Load Capacity in Centrally Pivoted Thrust Bearings Cori Watson-Kassa					
11:00 am	Talk 30	Computational Modeling and Analysis of Laminar, Transitional & Turbulent Flow in Thrust Bearings Xin Deng					
11:30 am	Talk 31	CFD Modeling of Thermal Impacts on Bearing Jacking Pockets Presenter: Cori Watson-Kassa Researcher: Kevin Moccia					
12:00 pm		LUNCH					
		FLUIDS & CODE DEVELOPMENT PLANS	SESSION CHAIR: TBD				
1:00 pm	Talk 32	Assessing High Fidelity Multi-Component Models to Facilitate Safeguards at GCEPs Presenter: Houston Wood Researcher: Wisher Paudel					
1:30 pm	Talk 33	ROMAC Code Future Development Plan Discussion Roger Fittro					
2:00 pm		Вгеак					
2:30 pm		Wrap-up Session					

The schedule, talks and presenters are subject to change.