

Engineering Simulation Conference - 2023



Date: 5 September 2023

Registration Time: 7:45

Venue: African Pride Irene Country Lodge

Address: Nellmapius Dr, Irene, Pretoria

07:45 - 08:15		REGISTRATION	
08:15 - 08:25		Welcome (Izak Vorster, Qfinsoft)	
08:25 - 08:55		Ansys Corporate Vision and Update (Jim Chiamardas, Ansys)	
08:55 - 09:15		Unraveling Complexity: The Role of Simulation in Nuclear Reactor Design (Jesse Quick, Ultra Safe Nuclear Corporation)	
09:15 - 09:35		Assessment of Refractory Interaction in a Circular Electric Arc Furnace using Finite Element Analysis (Christopher Long, Hatch Africa)	
09:35 - 09:55		Large Electric Motor Rotor Dynamics Analysis using ANSYS Workbench Modal and ABB Tools (MCCU) (Kgaugelo Paulos, ABB South Africa)	
09:55 - 10:15		Adventures Through Ansys Discovery (Izak Vorster, Qfinsoft)	
10:15 - 10:45		BREAK	
10:45 - 11:05		Modelbased System Engineering with Ansys (Johan Koncilja , Ansys)	
11:05 - 11:25		Rotating Blade Health Monitoring (Ronnie Scheepers, Eskom)	
11:25 - 11:45		SPH-DEM Simulation of Coarse Material Washer System (Jaco Kotze, Weir Minerals)	
11:45 - 12:05		Material Innovation with Granta Selector (Eloise Erasmus, Qfinsoft)	
12:05 - 12:25		Accelerating Innovation with Ansys Cloud (Anders Jonson, Ansys)	
12:25 - 12:45		Validating ROCKY-DEM: Evaluating Fluid-Particle Interactions in Rotating Drum Flows Using Two-Way DEM-SPH Coupling and PEPT (Taswald Moodley, University of KwaZulu-Natal)	
12:45 - 13:55		GROUP PHOTO + LUNCH	
		Mechanical Track - 1	Fluids Track
13:55 - 14:40		Ansys Mechanical Update (Jeanri van Tonder, Qfinsoft)	Ansys Fluids Update (Stephan Schmitt, Qfinsoft)
14:40 - 15:00		Gas Turbine LP Axial Compressor Blade FOD FEA Modelling (Lefa Madire, SASOL)	CFD Modelling of a Polybaffle using the Eulerian Wall Film Model (Joshua Thring, Sugarequip & Stephan Schmitt, Qfinsoft)
15:00 - 15:20		Ansys ACP: Making Light Work of Composites (Aidan Wilson, Qfinsoft)	Computational Fluid Dynamics Simulation of Jet Impingement Boiling (Francois le Roux, University of Pretoria)
15:20 - 15:50		BREAK	
		Mechanical Track - 2	DEM Track
15:50 - 16:30		Sub-Modelling of a Steam Manifold (Jeanri van Tonder, Qfinsoft)	Ansys Rocky Update (Keith Railton, Qfinsoft)
16:30 - 16:50		Use Of Modern Numerical Simulation Techniques in Assessments to Existing Codes & Standards (Michael Ross, Hatch Africa)	The Effect of Mill Size and Ball Size on the Relative Strengths of Grinding Mechanisms in a Tumbling Mill (Sandile Nkwanyana, University of KwaZulu-Natal)
16:50 - 17:10		Explosive Forming Simulation using Ansys Explicit (Aidan Wilson, Qfinsoft)	Using DEM to Study Breakage Mechanisms in the Novel Crushing Device (Titus Nghipulile, University of KwaZulu-Natal)
17:10 - 17:30		System Simulation with Flownex and Ansys (Rahul Patel, Flownex)	
17:30 - 17:40		LUCKY DRAW /CLOSE DRINKS	

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