

South African ANSYS/FLUENT/CFX User Conference - 18 June 2008

8:00 – 8:30	<i>Registration</i>	
8:30 – 8:45	Welcome to The Evolution of CAE, <i>Dr Danie de Kock (Qfinsoft)</i>	
8:45 – 9:00	Solidcad Presentation, <i>Izak Vorster (Solidcad)</i>	
9:00 – 9:15	Qfinsoft Update, <i>Prof Jan Visser (Qfinsoft)</i>	
9:15 – 10:00	ANSYS Advantage – Technology Overview, <i>Dr Stuart Hartle (ANSYS Europe)</i>	
10:00 – 10:15	<i>Coffee</i>	
10:15 – 11:10	ANSYS Fluid Products Overview, <i>Dr Mike Slack (ANSYS Europe)</i>	
11:10 – 11:55	ANSYS Mechanical Products Overview, <i>Dr Steven Varnam (ANSYS Europe)</i>	
11:55 – 12:30	ANSYS Modeling and Meshing Overview, <i>Dr Mike Slack and Dr Steven Varnam (ANSYS Europe)</i>	
12:30 – 14:00	<i>Lunch, Tour of Maropeng and Business Card Draw (Sponsored by HP)</i>	
	Parallel Session 1 (Fluids Applications)	Parallel Session 2 (Structural Applications)
14:00 – 14:25	Dual Mesh Approach for Modeling Plate Heat Exchangers <i>Dr Jaap Hoffmann (PBMR)</i>	ANSYS Workbench in action <i>Izak Vorster (Solidcad)</i>
14:25 – 14:50	Industrial User Possibilities at CHPC <i>Dr Happy Sithole (Center for High Performance Computing)</i>	ANSYS Fatigue Module <i>Victor Vorster (Solidcad)</i>
14:50 – 15:15	CFD-based Reality Checks in Decision Making and Design <i>Dr Charles Crosby (CapeCFD)</i>	High-end workstations <i>Ben MacDonald (Dell SA)</i>
15:15 – 15:30	<i>Coffee</i>	
15:30 – 15:55	The role of CFD in assessing fatigue life of components in the PBMR design <i>HP Kritzinger (PBMR)</i>	Modeling manufacturing stress by means of element birth and death <i>Frans van Ravenswaay (PBMR)</i>
15:55 – 16:30	Modelling Transition to Turbulence <i>Dr Mike Slack (ANSYS Europe)</i>	Introduction to DesignXplorer <i>Dr Steven Varnam (ANSYS Europe)</i>
16:30 – 16:55	Transition modeling on the JS1 Sailplane <i>Johan Bosman (North West University)</i>	HP computational solutions <i>Andrew Rycroft (Cornerstone SA)</i>
16:55 – 17:00	Closing Remarks + Business Card Draw (Sponsored by Dell) <i>Izak Vorster (Solidcad)</i>	
17:00 - late	Open Discussion and Drinks	

Post-event Training - 19 June 2008

8:30 – 9:00	<i>Registration</i>	
	Fluids Session	Structural Session
9:00 – 10:30	<p>FEA for CFD Users Steven Varnam (ANSYS Europe) This training session is aimed at users familiar with CFD but wanting to get to know FEA. Basic Linear static analysis, meshing and contact will be covered.</p>	<p>CFD for FEA users Thomas Kingsley (Qfinsoft) This is an entry-level course introducing the CFD discipline, aimed at those who are already experienced in FEA. This will cover the underlying principles of CFD, explaining the thought process needed when planning a CFD project, how a problem is defined, the type of assumptions that may need to be made, and how the model is then assembled and run. This course will be illustrated with a range of examples from both CFX and FLUENT.</p>
10:30 – 11:00	<i>Coffee</i>	
11:00 – 12:30	<p>Multiphase Modelling Mike Slack (ANSYS Europe) This course will introduce the concepts of modelling Multiphase flows, including Gas-Liquid, Gas-Solid, Liquid-Solid and Three-Phase Flows, and how the interaction between these phases can be simulated. The tools available for Multiphase modelling within both CFX and FLUENT will be presented, along with examples from both codes.</p>	<p>Using ANSYS Command Objects in simulation Steven Varnam (ANSYS Europe) This training session is aimed at using traditional commands from ANSYS classic in ANSYS Workbench. This will enable attendees to compile scripts in Workbench to streamline workflow and increase efficiency.</p>
12:30 – 14:00	<i>Lunch</i>	
14:00 – 15:30	<p>T-Grid Wrapper Mike Slack (ANSYS Europe) Rapid mesh for CFD. Learn how to handle very complex models and produce meshes in hours, not months. Orders of magnitude can be saved in the overall process time.</p>	<p>Advanced Contact Modeling Steven Varnam (ANSYS Europe) In depth look at contact modeling in ANSYS Workbench and how this effects simulation.</p>
15:30 – 16:00	<i>Coffee and Informal Discussions</i>	