

3rd Southern African Conference on Rheology

SASOR 2010

**Cape Town
South Africa
8 – 9 September 2010**

Programme and Abstracts



Programme

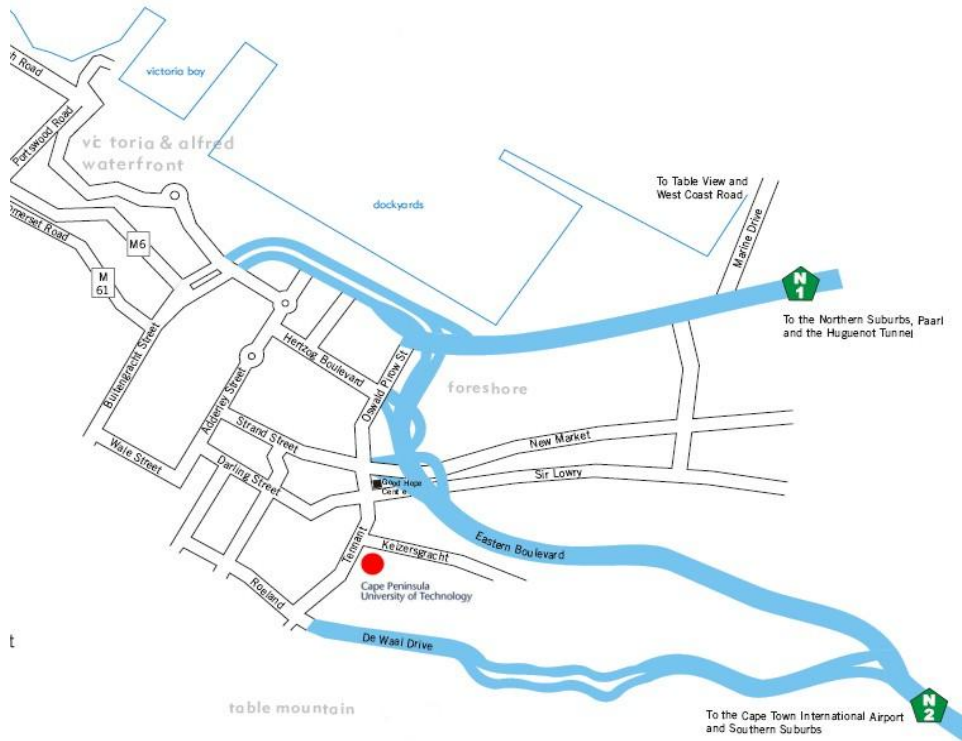
		Wednesday 8 September 2010	Page
08:00		Registration Coffee/Tea	
09:00		Opening: President of SASOR	
		<i>Chairperson: I Masalova</i>	
09:15	P1	Plenary: Gerald G. Fuller RINSE AND REPEAT: TURNING LIQUIDS INTO SOFT ADHESIVES <i>Fletcher Jones Professor of Chemical Engineering, Stanford University, USA</i>	10
10:00		Questions	
10:10	S1	Effect of interdroplet interaction on elasticity of highly concentrated emulsions Reza Foudazi, Irina Masalova, Alexander Ya. Malkin <i>Material Science and Technology, Cape Peninsula University of Technology (CPUT), South Africa</i>	26
10:30		Coffee/Tea	
		<i>Chairperson: R Lapazin</i>	
11:00	S2	The application of emulsion explosives in the mining environment Andre Pienaar <i>AEL Mining Services – R&D Department, Modderfontein, South Africa</i>	30
11:20	S3	Influence of electrolyte on interfacial, rheological properties and shear stability of highly concentrated W/O emulsions K. Kovalchuk, I. Masalova, A. Ya. Malkin <i>Material Science and Technology, Cape Peninsula University of Technology (CPUT), South Africa</i>	32
11:40	S4	Optimization of waste oil fuel content in emulsion explosives manufacturing Hamat A. Yakhoub, Andre Pienaar <i>AEL Mining Services – R&D Department, Modderfontein, South Africa</i>	36
12:00		Promotion: Gold Sponsor: African Explosives Limited	
12:20		LUNCH	

Time		Wednesday 8 September 2010	Page
		<i>Chairperson:</i> Gerald Fuller	
13:20	P2	Plenary: Romano Lapasin THE CONTRIBUTION OF FINE PARTICLES TO RHEOLOGY OF SUSPENSIONS: THE CLAY PARADIGM <i>Department of Materials and Natural Resources - Università di Trieste, Italy</i>	12
14:05		Questions	
14:15	S5	Macroscopic behaviour of suspension of non-colloidal particles in yield stress fluids Thai-Son Vu, Guillaume Ovarlez and Xavier Chateau <i>University of Paris Est, Navier, France</i>	40
14:35	S6	Yield stress as measured in steady shearing and in oscillations R Foudazi, I Masalova, Alexander Ya. Malkin <i>Material Science and Technology, Cape Peninsula University of Technology, South Africa</i>	44
14:55		Coffee/Tea	
		<i>Chairperson:</i> Sonia Woudberg	
15:25	S7	The industrialization of Pibsa based surfactants for emulsion explosives Leon van Kralingen, Anthony J. Stiff, Clive Dawkins <i>Lake International Technologies, P/Bag X137, Bryanston, 2021</i>	48
15:45	S8	Instability and rheology of Pibsa-Mea based explosive emulsions - Role of SMO Steve Tshilumbu, Irina Masalova, Alexander Ya. Malkin <i>Material Science and Technology, Cape Peninsula University of Technology (CPUT), South Africa</i>	52
16:30		Scenic Tour leaving from CPUT	

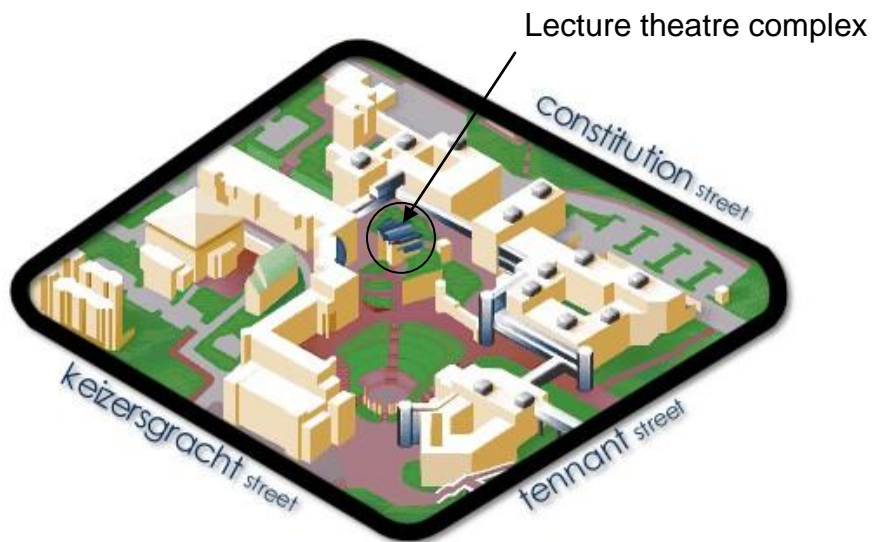
Time		Thursday 9 September 2010	Page
08:30		Coffee/Tea	
		<i>Chairperson:</i> <i>Rainer Haldenwang</i>	
09:00	P3	Plenary: Philippe Coussot WHAT WE LEARN ABOUT THE RHEOLOGY OF PASTES AND SUSPENSIONS FROM MAGNETIC RESONANCE IMAGING <i>Université Paris-Est, Laboratoire Navier, Champs sur Marne, France</i>	16
09:45		Questions	
09:55	S9	Challenges in rheological characterisation of road bitumens S.E. Zoorob, G.A.J. Mturi, J. O'Connell <i>CSIR Built Environment, Transport Infrastructure Engineering, South Africa</i>	56
10:15		Promotion: Gold Sponsor: AMST Laboratories	
10:35		Coffee/Tea	
		<i>Chairperson:</i> <i>Piet Halliday</i>	
11:05	P4	Plenary: Johan Wiklund ULTRASOUND DOPPLER BASED METHODS FOR RESEARCH AND ENGINEERING APPLICATIONS <i>SIK, Sweden</i>	20
11:50		Questions	
12:00	S10	Evaluation and optimisation of an in-line rheometric method using a new ultrasonic delay line transducer and signal processing techniques Reinhardt Kotze, Rainer Haldenwang and Johan Wiklund* <i>Material Science and Technology, Cape Peninsula University of Technology, South Africa</i> *SIK, Sweden	62
12:20		Promotion: Gold Sponsor: Advanced Laboratory Solutions	
12:40		LUNCH	
		<i>Chairperson:</i>	
13:40	P5	Plenary: Suprakas Sinha Ray STRUCTURE-PROPERTY RELATIONSHIP IN MODEL POLY[(BUTYLENE SUCCINATE)-CO-ADIPATE] NANOCOMPOSITES <i>DST/CSIR Nanotechnology Innovation Centre, National Centre for Nano-Structured Materials, Council for Scientific and Industrial Research, Pretoria, South Africa.</i>	24
14:25		Questions	

Time		Thursday 9 September 2010	Page
14:35	S11	Viscoelastic Properties of Nanoclay-Containing Composites of Thermotropic Liquid Crystal Polymer Jayita Bandyopadhyay <i>DST/CSIR Nanotechnology Innovation Centre, National Centre for Nano-Structured Materials, Council for Scientific and Industrial Research, Pretoria, South Africa.</i>	66
14:55	S12	Using electrical resistance tomography to determine behaviour of coarse particles in non-Newtonian fluids Andrew Sutherland <i>Material Science and Technology, Cape Peninsula University of Technology, Cape Town, South Africa</i>	68
15:15		Coffee/Tea	
		<i>Chairperson: Andrew Sutherland</i>	
15:45	S13	Pressure losses of non-Newtonian fluids in diaphragm valves A M Kabwe, VG Fester <i>Material Science and Technology, Cape Peninsula University of Technology (CPUT), South Africa</i>	72
16:05	S14	Flow of non-Newtonian fluids in short orifices B M Ntamba Ntamba, VG Fester <i>Material Science and Technology Group, Cape Peninsula University of Technology (CPUT), South Africa</i>	78
16:25		Closing	
16:30		SASOR AGM	
18:30		Banquet at President Hotel, Seapoint	

Street Map



Campus Plan



Conference Area

