

7<sup>th</sup> Southern African Conference on Rheology

# SASOR 2018

**Stellenbosch  
South Africa  
27-28 September 2018**

## Programme



## Programme

Thursday 27 September 2018	
08:30	<b>Registration : Coffee/Tea</b>
09:00	<b>Opening: President of SASOR</b>
	<i>Chairperson: Veruscha Fester</i>
09h15	<b>Plenary: Emeritus Prof Chris Macosko</b> <b>Conductivity via Cocontinuous Polymer Blends: A Little Graphene Goes a Long Way</b> <i>Department of chemical engineering and materials science, University of Minnesota, Minneapolis, USA</i>
10:15	<b>Single or Twin different nanoparticles as co-surfactant for stabilization of highly concentrated water-in-oil emulsions</b> N.N. Tshilumbu & I. Masalova <i>Flow Process &amp; Rheology Centre, Faculty of Engineering, Cape Peninsula University of Technology</i>
10:40	<b>Coffee/Tea</b>
	<i>Chairperson: Rainer Haldenwang</i>
11:00	<b>Keynote: Dr Jayita Bandyopadhyay</b> <b>Effect of nanoclay inclusion mode on the flow behaviour of nylon-ethyl-vinyl alcohol blend nanocomposite</b> <i>DST/CSIR National Centre for Nanostructured Materials, Council for Scientific and Industrial Research, Pretoria, South Africa</i>
11:35	<b>Effect of temperature and flyash replacement on rheological behaviour of cement paste during early hydration</b> W Mbasha, R Haldenwang, I Masalova <i>Flow Process &amp; Rheology Centre, Faculty of Engineering, Cape Peninsula University of Technology, Cape Town, South Africa</i>
12:00	<b>Promotion: Silver Sponsor: Advanced Laboratory Solutions (ALS)</b>
12:15	<b>Lunch</b>
	<i>Chairperson: Sonia Fidder-Woudberg</i>
13:30	<b>Plenary: Dr Nigel Heywood</b> <b>Flow curve measurements for process engineering design applications</b> <i>BHR Cranfield, England</i>
14:30	<b>Reclaimed Rubber/natural rubber blends: Correlation of mechanical properties obtained from different testing methods</b> J.I. Gumede, J. Carson & S.P. Hlangothi <i>NMMU Port Elizabeth, South Africa</i>
14:55	<b>An investigation of the nature of the effects causing mechanical sensitizer pumping properties variation</b> B. Kholisa, V. Fester & R. Haldenwang <i>Flow Process &amp; Rheology Centre, Faculty of Engineering, Cape Peninsula University of Technology, Cape Town, South Africa</i>
15:30	<b>Coffee/Tea</b>
16:00	<b>SASOR AGM</b>
18:30	<b>Conference Dinner at Barrique</b>

<b>Friday 28 September 2018</b>	
08:30	Registration : Coffee/Tea
	<i>Chairperson: Peter Goosen</i>
09h00	<p><b>Plenary: Prof Gareth McKinley</b>  <b>Optimal fourier transform rheology for probing the linear viscoelasticity of gels and time-evolving soft materials</b>  <i>Non-Newtonian Fluid Dynamics Group. Dept of Mechanical Engineering, MIT Cambridge, Massachusetts</i></p>
10:00	<p><b>Evaluation of a non-Newtonian two-layer model to predict the laminar flow behaviour of a high concentration suspension</b>            C. Fraser &amp; P. Goosen  <i>Paterson &amp; Cooke, Sunrise Park, Prestige Drive, Ndabeni Cape Town, South Africa</i></p>
10:30	Coffee/Tea
	<i>Chairperson: Dave Perrett</i>
11:00	<p><b>Plenary: Dr Arno Talmon</b>  <b>Rheology and segregation of sand-water-clay mixtures in deposition flow modelling</b>  <i>TU Delft/Deltares Delft, Holland</i></p>
12:00	<p><b>Investigating the effect of thermal history on thermo-oxidative degradation of polyethylene and its blends with polyamide via rheological analysis</b>            R. Salehiyan &amp; S. Sinha Ray  <i>DST/CSIR National Centre for Nanostructured Materials, Council for Scientific and Industrial Research, Pretoria, South Africa</i></p>
12:30	Lunch
	<i>Chairperson Rainer Haldenwang</i>
13:30	<p><b>Emulsification of highly concentrated emulsion: Role of yield stress and elastic modulus</b>            K. Fabrice, J Kabamba, N. Tshilumbu, N. George &amp; I. Masalova  <i>Flow Process and Rheology Centre. Department of Civil Engineering and Survey, Cape Peninsula University of Technology, Cape Town</i></p>
13:55	<p><b>The use of RPA to study the rheological properties of fly ash filled cis-1,4 polyisoprene compared to mechanical properties</b>            D.S. Moyo, E. Van der Merwe, S.P. Hlangothi and *K.L. Ngobo  <i>Department of Chemistry University of Pretoria</i>  <i>*Advanced ALS, Johannesburg</i></p>
14:20	Conference Closing