

SUNDAY, 15th MARS						
	17:00 -18:00	Registration - opening of the welcome desk				
	18:00 -20:00	opening mini cocktail with samba group performance				
MONDAY, 16th MARS						
	Time	Code	Title	Author(s)	Presenter	Institution(s)
	8:00 - 8:30	Registration - opening of the welcome desk				
Opening lecture	Chairperson:		Paulo Roberto de Souza Mendes			
	8:30-9:30	Lecture-1	New Techniques for Time-Resolved Rheometry of Complex Fluids: Applications of Gabor Transforms and Optimally-Windowed Exponential Chirps	Gareth H. McKinley		Dept. of Mechanical Engineering, M.I.T. Cambridge, USA
	9:30-10:00	COFFEE BREAK				
S e s s i o n - 1	Chairperson:		Paulo Roberto de Souza Mendes			
	10:00-10:20	184	The intriguing transient behaviour of fumed silica colloidal suspensions	Géssica Palaoro, Diogo E. V. Andrade, Yane H. Santos and Admilson T. Franco	Diogo E. V. Andrade	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	10:20-10:40	172	Numerical Modelling of the Influence of Hydrogel Rheology in Predicting Filament Formation in Extrusion-Based 3D Printing	Andrew O. Ogundele, Nezia de Rosso, Isabela Disigant, Ricardo J.E. Andrade, Cezar O. R. Negrão	Andrew O. Ogundele	CERNN, Federal University of Technology of Parana, Brasil
	10:40-11:00	295	Improving the squeeze flow analysis of cement-based suspensions with theoretical models	Franco Ancona Grandes, Fábio Alonso Cardoso, Rafael Giuliano Pileggi	Fábio Alonso Cardoso	Department of Construction Engineering, Escola Politécnica, University of São Paulo, Brazil
	11:00-11:20	234	A procedure for parameter estimation of nonlinear terms of constitutive models using flow-induced birefringence data and numerical flow simulation within a slit-die and a cross-slot geometry	André M. de Castro, Juliana O. Pereira, Verônica M. A. Calado, and Argimiro R. Secchi	Verônica M. A. Calado	Universidade Federal do Rio de Janeiro, Escola de Química
	11:20-11:40	149	Synergistic Structuring of Synthetic-Based Drilling Fluids by Carnauba Wax and Organoclay: Rheology and Mixture Modeling	Marcos Vinícius Pereira da Costa, Patrícia Vieira de Oliveira, Cezar Otaviano Ribeiro Negrão	Marcos Vinícius Pereira da Costa	CERNN, Federal University of Technology of Parana, Brasil
	11:40-12:00	243	Magnetorheological behavior of Epoxy/MWCNT dispersions	André Giudici Táboas, Matheus Mendes de Oliveira, Danilo Justino Carastan	André Giudici Táboas	University of São Paulo, Brazil
	12:00-14:00	LUNCH				
S e s s i o n	Chairperson:		Roney Leon Thompson			
	14:00 - 14:20	93	Numerical Investigation of Viscosity Ratio Effects on the Sedimentation and Deformation of Magnetic Droplets	Lidia Ramos da Vitória , Lucas Henrique Pagoto Deoclecio, Edson José Soares, Renato do Nascimento Siqueira, Ivan Rosa de Siqueira	Lidia Ramos da Vitória	Department of Mechanical Engineering, Instituto Federal do Espírito Santo, Brazil
	14:20 - 14:40	103	Field-induced control of the breakup of ferrofluid droplets in planar extensional and simple shear flows	Arthur L. Guilherme, Rodrigo F. Abdo, Lucas H. P. Cunha, Roney L. Thompson, Ivan R. Siqueira, Taygoara F. Oliveira	Ivan Rosa de Siqueira	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	14:40 - 15:00	246	Bouncing Droplets on Viscoelastic Polymeric Solutions and Its Rheological Characterization	Bernardo P. Brener, Anselmo S. Pereira, Cassio M. Oishi, Roney L. Thompson	Bernardo P. Brener	Department of Mechanical Engineering, Federal University of Rio de Janeiro, Brazil
	15:00 - 15:20	116	Influence of elastic effects on the yield surface shape of bubbles rising in elasto-viscoplastic materials	Lucas Henrique Pagoto Deoclecio, Edson José Soares, Roney Leon Thompson	Lucas Henrique Pagoto Deoclecio	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil

- 2	15:20 - 15:40	205	Free-surface flow of Herschel-Bulkley fluids over an uneven bottom modeled through a Shallow Water Equation system	Lorenzo Olivo Filippini, Guillaume Gomit, Guilherme Henrique Fiorot	Lorenzo Olivo Filippini	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	15:40 - 16:00	85	An experimental study of the solid-liquid interface for an elastoviscoplastic fluid flow in benchmark geometry: 4 to 1 planar contraction	Belaïd Hadj Arab, Zineeddine Louna, Mohamed Mahfoud,, Paulo R. de Souza Mendes, Yamid J. Garcia-Blanco, Admilson T. Franco	Hadj Arab Belaïd	University of Sciences and Technology Houari Boumediene, Algeria
16:00-16:30 <b>COFFEE BREAK</b>						
S e s s i o n - 3	Chairperson:		Ivan Rosa de Siqueira			
	16:30-16:50	238	Interfacial Rheology in Isotropic Compression: Design and Validation of a Radial Trough	Henrique N. Uchôa, Paulo R. de Souza Mendes, Alexandra A. Alicke, Ivan R. Siqueira	Paulo R. de Souza Mendes	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	16:50-17:10	267	Oscillatory interfacial rheology to select formulations to prevent mixed calcium naphthenate/carbonate scales under different pH and salinity conditions	Bianca B. Silva, Carla M. F. Silva, Rosane A. Fontes, Luiz S. Chinellato J, Elizabete F. Lucas	Bianca Bassetti Silva	IMA/UFRJ, RJ, Brazil
	17:10-17:30	115	Case Studies on the Correlation Between Morphological Evolution in Polymeric Blends and Interfacial Tension Estimated by Rheological Models	Lucas H Staffa	Lucas H Staffa	Department of Materials Engineering, Federal University of São Carlos, São Carlos, SP
	17:30-17:50	269	Use of interfacial rheology to study flow assurance	Tiphane A. Figueira, Eliana M. Castano, Jairo E. Leiva, Geiza Acelino Souto, Arthur G. S. Santos, Marcia C. Khalil de Oliveira, Osvaldo J. Karnitz, Priscilla R. Vargas, Paulo R. de Souza Mendes, Monica F. Naccache	Monica F. Naccache	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	17:50-18:10	284	Flow assurance and rheological analysis of combined effects: implications for offshore production	Tiphane A. Figueira, Priscilla R. Vargas, Eliana P. Marin Castano, Andrea Mora, Jairo E. Leiva Mateus, Cynthia Barreto, Geiza Souto, Arthur Gama, Osvaldo J. Karnitz, Marcia C. Khalil de Oliveira, Monica F. Naccache, and Paulo R. De Souza Mendes	Tiphane A. Figueira	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	18:10-18:30	288	Numerical Simulations of Flow Restart in a Pipeline Filled with a Gas Pocket and Waxy Gel	Carlos E Sanchez Perez, Gabriel Goetten de Lima, Cezar Negrão	Carlos E Sanchez Perez	CERNN, Federal University of Technology of Parana, Brasil
18:30-20:00 <b>POSTER SECTION 1 + COQUETEL</b>						
<b>TUESDAY, 17th MARS</b>						
	<b>Time</b>	<b>Code</b>	<b>Title</b>	<b>Author(s)</b>	<b>Presenter</b>	<b>Institution(s)</b>
	8:00 - 8:30		Registration - opening of the welcome desk			
Lecture-2	Chairperson:		Mônica Naccache			
	8:30-9:30	Lecture-02	Rheology-Driven Insights for Engineering Next-Generation 2D Material Nanocomposites	Ricardo Jorge Espanhol Andrade		Mackenzie Presbyterian University, São Paulo, Brazil
9:30-10:00 <b>COFFEE BREAK</b>						
C	Chairperson:		Monica Naccache			
	10:00-10:20	159	Thermoplastic polyurethane nanocomposites with carbon nanostructures: relationship between filler morphology and rheological properties	Rafael V. Maidana, Bruno B. Storte, Danilo D. Siqueira, Mariel A. F. Aramayo, Paulo A. Amorim, Ricardo J. E. Andrade	Rafael V. Maidana	Mackenzie Presbyterian University, São Paulo, Brazil

S e s s i o n - 4	10:20-10:40	148	Influence of Cellulose Fiber Size and PPy Incorporation on the Rheological and Structural Properties of Alginate-Glycerol Hydrogels for 3D printing	Isabela Disigant, Paulo Amorin, Guilherme Ferreira, Nathália Fernandes, Rafael Silva, Santanu Jana, Sumita Goswami, Suman Nandy, Ricardo Andrade	Isabela Disigant	Mackenzie Presbyterian University, São Paulo, Brazil
	10:40-11:00	249	Development and verification of a novel Darcy source term for multiphase flow with binary mixtures composed of Herschel-Bulkley fluids	André M. de Castro, Hélio Ribeiro Neto, Filipe Eduardo C. de Souza, Franco Barbi, Jovani L. Favero, Roney L. Thompson, Mateus Palharini Schwalbert, Rafael Japiassú Leitão	André M. de Castro	Escola de Química, Universidade Federal do Rio de Janeiro, Brazil.
	11:00-11:20	242	Parameter estimation procedure for fractal-based nonlinear rheology models applied to waxy oils	André da Silva Guimarães, Thiago Oliveira Marinho, Príamo Albuquerque Melo Júnior, Roney Leon Thompson, Márcio Nele	André da Silva Guimarães	Programa de Engenharia Química – PEQ/COPPE/UFRJ, Rio de Janeiro-RJ, Brazil
	11:20-11:40	91	Effect of Water Fraction on the Yield Stress of Paraffinic Water-in-Oil Emulsions	Matheus De Souza Cunha, Edson José Soares	Matheus De Souza Cunha	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
	11:40-12:00	278	Assessment of viscosity with water uptake of emulsions formed by oil weathering process	Taisa Correa Dantas, Fabiana Dias Costa Gallotta, Cleocir José Dalmaschio	Taisa Correa Dantas	Department of Chemistry, Federal University of Espírito Santo, Brazil
12:00-14:00	<b>LUNCH</b>					
S e s s i o n - 5	Chairperson:		<b>Renato do Nascimento Siqueira</b>			
	14:00 - 14:20	265	Dynamics of emulsion flow through porous media micromodel	Clarice de Amorim, Amanda C.S.N. Pessoa, Ranena V. Ponce Flores and Marcio S. Carvalho	Marcio S. Carvalho	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	14:20 - 14:40	202	A TRT-LBM model for permeability function correction in regular 2D porous media for pseudoplastic fluid flow	Abdullahi Ayo Olohunoje, Guilherme Henrique Fiorot, Cirilo Seppi Bresolin	Abdullahi Ayo Olohunoje	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	14:40 - 15:00	198	CFD-DEM analysis of non-Newtonian rheology effects on dynamic filtration and cake buildup in heterogeneous porous media: comparative influence of plasticity number and shear-thinning behavior	Ayrton Cavallini Zotelle, Vinicius Gustavo Poletto, Fernando Cesar De Lai, Silvio Luiz de Mello Junqueira, Renato do Nascimento Siqueira	Ayrton Cavallini Zotelle	CERNN, Federal University of Technology of Parana, Brasil
	15:00 - 15:20	275	CFD-DEM simulation of density ratio effects on cake buildup over dynamic filtration using viscoplastic materials	João Vitor Faidiga Silva, Ayrton Cavallini Zotelle, Vinicius Gustavo Poletto, Fernando Cesar De Lai, Silvio Luiz de Mello Junqueira	João Vitor Faidiga Silva	Research Center for Rheology and Non-Newtonian Fluid, Federal University of Technology - Paraná
	15:20 - 15:40	223	Numerical and Experimental Pressure Drop Analysis of Laminar Annular Couette-Poiseuille Flow with non-Newtonian Fluids	Ricardo Knesebeck, Cezar Otaviano Ribeiro Negrão	Ricardo Knesebeck	CERNN, Federal University of Technology of Parana, Brasil
	15:40 - 16:00	207	The flow of a viscoplastic shear-thinning fluid in a lifting Hele-Shaw cell	Guilherme Henrique Fiorot, Lorenzo Olivo Filippini, Cirilo Seppi Bresolin, Marcel Moura	Guilherme Henrique Fiorot	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
16:00-16:30	<b>COFFEE BREAK</b>					
S e	Chairperson:		<b>Diogo Andrade</b>			
	16:30-16:50	221	Numerical Simulation of Parallel-Plate Rheometric Flows of Non-Colloidal Suspensions in Viscoplastic Fluids	Nezia de Rosso, Cezar O. R. Negrão	Nezia de Rosso	CERNN, Federal University of Technology of Parana, Brasil
	16:50-17:10	153	A Virtual Rheometer Framework Based on the Lattice Boltzmann Method	Marco Aurélio Ferrari, Renata Cury Caruso, Pablo Enrique Harbar Penas, Oscar Navas-Torres, Luis H. Quitian-Ardila, Admilson Teixeira Franco	Marco Aurélio Ferrari	CERNN, Federal University of Technology of Parana, Brasil

S S i O n - 6	17:10-17:30	130	Influence of raw material viscosity and manufacturing parameters on the rheological performance of a cosmetic gelly product: a case study	Milena Leithold, Marianna Alves Rabelo, Franciane de Oliveira Cortez, Patrícia Magalhães de Souza, Juliana Cibi Amorim, Fernanda Gabriela Henning, Desiree Cigaran Schuck	Patrícia Magalhães de Souza	Boticário Group
	17:30-17:50	243	Rheological Characterization of CMC-based biohydrogels for agricultural applications	Stefanni S Everton, André S Guimarães, Martina C C Pinto, Marcio Nele , José Carlos Pinto	Stefanni S Everton	Programa de Engenharia Química/PEQ - COPPE (UFRJ), Rio de Janeiro, RJ, Brazil
	17:50-18:10	248	Influence of Portland Cement Storage in an Amazonian Environment on the Rheological and Mechanical Behavior of Cementitious Pastes	Afonso Augusto de Oliveira Neto, Eliardo Soares Coelho, Madson Lucas de Souza, Abcael Ronald Santos Melos, Emanuel Pereira de Queiroz, Ana Isabele Santos Sousa, Gabriel Araújo Teles Amaral, Lucas Feitosa de Albuquerque Lima Babadopulos	Afonso Augusto de Oliveira Neto	Universidade Federal do Ceará, Brasi
	18:10-18:30	124	Rheological Behavior of Fresh Mortars with Charcoal Ash as Partial Cement Replacement	Elias Rocha Gonçalves Júnior, Esther Tavares, Virgínia Siqueira Gonçalves, Afonso Rangel Garcez de Azevedo, Markssuel Teixeira Marvila	Elias Rocha Gonçalves Júnior	Laboratory of Advanced Materials, State University of North Fluminense, Brazil
18:30-20:00	<b>POSTER SECTION 2 + COQUETEL</b>					
<b>WEDNESDAY, 18th MARS</b>						
	<b>Time</b>	<b>Code</b>	<b>Title</b>	<b>Author(s)</b>		<b>Institution(s)</b>
	8:00 - 8:30	Registration	- opening of the welcome desk			
Lecture-3	Chairperson:		Roney Leon Thompson			
	8:30-9:30	Lecture-03	Scientific Machine Learning for Complex Fluid Flows	Cássio Machiaveli Oishi		Department of Mathematics and Computer Science, São Paulo State University (UNESP)
	9:30-10:00	<b>COFFEE BREAK</b>				
S e s s i O n - 7	Chairperson:		Roney Leon Thompson			
	10:00-10:20	110	Modeling of roll waves in a Herschel-Bulkley fluid using Physics Informed Neural Networks (PINNs) trained with experimental data	Bruno Fagherazzi Martins da Silva, Márcio Dor, Guilherme Henrique Fiorot	Bruno Fagherazzi Martins da Silva	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	10:20-10:40	187	Latent Space Representation of Newtonian and Viscoelastic Turbulent Couette Flows Using Autoencoders	Pedro P. R. Machado, Anselmo S. Pereira, Roney L. Thompson	Pedro P.R. Machado	Department of Mechanical Engineering, Federal University of Rio de Janeiro, Brazil
	10:40-11:00	145	Elastic turbulence flow promoted by the velocity profile inversion in a 2D channel	Eduardo Marques Vieira, Himani Garg, Ramon Silva Martins, Marcio Ferreira Martins, Humberto Belich	Ramon Silva Martins	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
	11:00-11:20	109	Polymer drag reduction in dispersed oil-water flow in tubes	Kelvin Cristien de Oliveira Barbosa, Edson José Soares	Kelvin Cristien de Oliveira Barbosa	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
	11:20-11:40	123	Polymer-Solution Emulsion and its Effects on Drag Reduction	Guilherme Rainho Melhorim, Edson José Soares, Cleocir Jose Dalmaschio	Guilherme Rainho Melhorim	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
	11:40-12:00	257	Active drag reduction by polymer solutions in Taylor-Coutte geometry beyond the Virk asymptote	Douglas Bruno Ferreira de Souza Mesquita, Edson José Soares, Cleocir José Dalmaschio	Douglas Bruno Ferreira de Souza Mesquita	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
	12:00-14:00	<b>LUNCH</b>				
	Chairperson:		Roney Leon Thompson			

S e s s i o n - 8	14:00 - 14:20	98	A nonlinear eddy-viscosity turbulence model for power-law fluids	Matheus S. S. Macedo, Gustavo E. O. Celis, Hamidreza Anbarlooei, Roney L. Thompson, Daiane M. Iceri, Letícia Bizarre, Vanessa Richon, Marcelo S. Castro	Matheus S. S. Macedo	Department of Mechanical Engineering, Universidade Federal do Rio de Janeiro, Brazil
	14:20 - 14:40	183	Numerical Evidence of an Unyielded Liquid Film Region in horizontal Intermittent Air/Bingham Flows	Rafael Cordebela, Daiane M. Iceri, Roney L. Thompson, Vanessa Richon, and Marcelo S. Castro	Rafael Cordebela Salgado	Department of Mechanical Engineering, Universidade Federal do Rio de Janeiro, Brazil
	14:40 - 15:00	288	Efficiency Simulator for Non-Newtonian Multiphase Fluid Displacement	Rodrigo Lipparelli Fernandez, Lucas Constantino Mendonça, Stélio Henrique Lopes Neto, Priscilla Ribeiro Vargas, Sergio Santiago Ribeiro, Mônica Feijó Naccache, Paulo Roberto de Souza Mendes, Marcio da Silveira Carvalho, Carlos Pessanha Costa Carvalho, Umberto Sansoni Júnior, André Leibsohn Martins, José Marcelo S. Rocha, Ingrid Ezechiello da Silva	Rodrigo Lipparelli Fernandez	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	15:00 - 15:20	268	Thermosensitive Microencapsulation of High Viscosity Chemicals for Efficient Deepwater Oil Transport	Bruna Leopércio, Mateus Lima, Jorge Avendaño, Sergio Ribeiro, Marcia Khalil, Marcio Carvalho	Bruna Leopércio	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	15:20 - 15:40	264	Thermoresponsive associative polymers: performance and potential forenhanced oil recovery (EOR).	J. Andres Ramirez Lozano, Andrea Mora, Sergio Ribeiro, Márcio S. Carvalho	Jefferson. Andres Ramirez Lozano	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
	15:40 - 16:00	263	Rheological Performance of HPAM and Thermo-Responsive Polymers for Enhanced Oil Recovery	Andrea V. Mora, J. Andres Ramirez, Sergio Ribeiro, Marcio Carvalho	Andrea V. Mora	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
16:00-16:30 <b>COFFEE BREAK</b>						
S e s s i o n - 9	Chairperson:		Priscilla Vargas			
	16:30-16:45	SPONSORS	Application of Improved Optimally-Windowed CHIRPS (OWCh) to Curing Systems	Presentation TA	William Capelupi	Gerente de Produto Waters - TA Instruments
	16:45-17:00	SPONSORS	Rheology and texture mapping of food samples	Presentation Reoterm	Hans Michael Petri	Senior Channel Manager Material Characterization, Thermo Fisher Scientific (Brazil)/ Director Reoterm Instrumentos Científicos Ltda
	17:00-17:15	SPONSORS	Rheo-Raman a Powerful toll to investigate chemical and physical proprieties of dental resins	Presentation Anton Paar	Jorge Maia	Anton Paar
	17:15-17:30	SPONSORS	Presentation Lactea	Presentation Lactea	Presentation Lactea	Lactea
	17:30-17:45	SBR	Best master Thesis	Best master Thesis	Jose Carlos Canazas Rodriguez	PUC-Rio
	17:45-18:00	SBR	Best PhD Thesis	Best PhD Thesis	Marco Aurélio Ferrari	UTFPR
19:00-24:00 <b>CONFERENCE COKTAIL WITH A ROCK AND ROLL BAND PERFORMANCE</b>						
<b>THURSDAY, 19ST MARS</b>						
	<b>Time</b>	<b>Code</b>	<b>Title</b>	<b>Author(s)</b>	<b>Presenter</b>	<b>Institution(s)</b>
S e s s i o n - 10	Chairperson:		Renato do Nascimento Siqueira			
	10:30-10:50	283	Experimental and Numerical Evaluation of Exchange Flow During Well Abandonment	Vanessa M. Picoli, Daniel L. Fonseca, Priscilla R. Vargas, Marllon F. Campos, João Paulo T. Nagoya, Mônica F. Naccache, Paulo R. de Souza Mendes	Vanessa M. Picoli	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil

c S S i O n - 10	10:50-11:10	129	Soil Plasticity Models Applied to Dam Monitoring in the Context of Seismography	Marcos Napoleão Rabelo, Alcide Eloy Cano Nuñez, Victor Rocha, Marcus Luiz Henrique, Carlos Maciel Dias	Marcos Napoleão Rabelo	Universidade Federal de Catalão
	11:10-11:30	270	Methodological influence of rheometric tests in hypothetical tailing dam break studies	Gabrielle Simplicio, Marina Gouvêa, Rodrigo Barbosa, Victoria Braga, Ana Júlia Resende, Letícia Imbuzeiro, Luiz Martini	Gabrielle Simplicio	Potamos Engenharia e Hidrologia Belo Horizonte, Brasil
	11:30-11:50	160	On the softening and breakage of polymer chains by mechanical stimuli	Humberto Belich, Eduardo Marques Vieira, Ramon Silva Martins, Marcio Ferreira Martins	Humberto Belich	Department of Physics, Federal University of Espírito Santo, Brazil
	11:50-12:10	126	Applied Thermorheology to Scale-up: Establishing the Dioleate Tolerance Limit and Controlling the Viscoelastic Structure in Liquid Soaps	Franciane de Oliveira Cortez, Milena Leithold, Daiane Camilo Nery, Bruna Bastos Swinka Sievers, Fernanda Gabriela Henning, Desiree Cigaran Schuck	Franciane de Oliveira Cortez	Boticário Group
12:10-14:00 <b>LUNCH</b>						
S e S i O n - 11	Chairperson:		<b>Cleocir José Dalmaschio</b>			
	14:00 - 14:20	152	Xanthan Gum Nanostructured with Graphene Oxide: Rheological Dependence on Lateral Size	Gabriel Krug de Oliveira, Nathália M M Fernandes, Matheus S Dias, Mariel A F Aramayo, Isabela Disigant, Lorena R C Moraes, Paulo A Amorim, Edilson de B C Junior, Camila M Maroneze, Cecilia de C C e Silva, Hélio Ribeiro, Monica Naccache, Ricardo J E Andrade	Gabriel Krug de Oliveira	Mackenzie Presbyterian University, São Paulo, Brazil
	14:20 - 14:40	155	Rheological and Viscoelastic Characterization of Xanthan Gum and Hydroxyethyl Cellulose Blend in Saline Media	Julian A. Jerez Suarez, Luis H. Quitian-Ardila, Raquel Schimicoscki <sup>1</sup> , Oriana Palma Calabokis, Máira Theisen, Admilson T. Franco	Julian A. Jerez Suarez	CERNN, Federal University of Technology of Parana, Brasil
	14:40 - 15:00	167	INFLUENCE OF THE SOLVENT COMPOSITION ON THE PHYSICO-CHEMICAL AND RHEOLOGICAL PROPERTIES OF XANTHAN GUM-BASED FLUIDS	Máira Theisen, Nicolay C. S. Senches, Oriana P. Calabokis, Raquel Schimicoscki, Luis H. Quitian-Ardila, Admilson T. Franco	Máira Theisen	CERNN, Federal University of Technology of Parana, Brasil
15:00-15:30 <b>BCR 2026 Closing Session</b>						
<b>Poster Session - 1</b>						
		<b>Code</b>	<b>Title</b>	<b>Author(s)</b>	<b>Presenter</b>	<b>Institution(s)</b>
Chairperson:		<b>Kelvin Cristien Barbosa</b>				
	99	Direct numerical simulations of Herschel-Bulkley fluids in smooth and rough channels	G. E. O. Celis, M. S. S. Macedo, H. R. Anbarlooei, R. L. Thompson, D. M. Iceri, L. Bizarre, V. Richon, M. S. Castro	M. S. S. Macedo	Department of Mechanical Engineering, Federal University of Rio de Janeiro, Brazil	
	219	Interaction H <sub>2</sub> O <sub>2</sub> and Nano-TiO <sub>2</sub> on a geopolymer used for CO <sub>2</sub> capture purposes: Chemical modifications through oscillatory rheology	Madeleing Tabora Barraza, Maria Eduarda Fernanda França, Sheila Mara Santos da Silva, Philippe Jean Paul Gleize, Afonso de Azevedo Rangel	Madeleing Tabora Barraza	State University of Northern Rio de Janeiro, Brazil.	
	84	Rheological and Biological Characterization of a Oxidized Cellulose–Bioglass Hydrogel Bioink for Bone Tissue Engineering	Rauany Cristina Lopes Panis, Mônica Rosas Costa Iemma, André Capaldo Amaral, Marina Vuković, Lidija Mančić, Eliane Trovatti	Rauany Cristina Lopes Panis	University of Uniara, Aararaquara, Brazil	
	88	Evaluation of Drag Force, Shear Stress, and Shear Rate during the removal of the Production Column in Abandoned Wells	Christian de Araujo, Roque Martins Duarte Junior, Cezar Otaviano Ribeiro Negrão	Cezar Otaviano Ribeiro Negrão	CERNN, Federal University of Technology of Parana, Brasil	

95	Rheological characterization of typical tailing pastes from ore mining	Neemias Almeida Dias, Patricio José Moreira Pires, Edson José Soares	Neemias Almeida Dias	Department of Civil Engineering, Federal University of Espírito Santo
96	Deformation of drops in a planar extensional flow: the influence of viscoplastic materials	Suellen F.R. da Cruz, Hiranya Deka, Edson J. Soares	Suellen F.R. da Cruz	Department of Mechanical Engineering, Federal University of Espírito Santo
97	Determination of Uniaxial and Planar Extensional Viscosity Using High-Pressure Capillary	S.H. Marsh, J. Mesquita, L. Szántó, M. Zatloukal	J. Mesquita	NETZSCH Thermal Instruments UK Ltd., Wolverhampton, UK
102	Rheological Characterization of Biopolymer-Based Polydisperse Suspensions for Application in Oil Well Drilling Processes	Daniel Werner Janzen, Luis H. Quitian-Ardila, Admilson T. Franco	Daniel W. Janzen	CERNN, Federal University of Technology of Parana, Brasil
106	The Effect of Polymeric Microspheres on the Density and Rheology of Synthetic-Based Drilling Fluids	Terhemba Rodney China, Patricia Viera de Oliveira, Cezar Otaviano Ribeiro Negrão	Terhemba R. China	CERNN, Federal University of Technology of Parana, Brasil
107	Investigation of the natural biopolymer acemanan as a drag- reducing agent in turbulent flow	Isaac dos Santos Orgino, Edson José Soares, Cleocir José Dalmaschio	Isaac S. Orgino	Department of Chemistry, Federal University of Espírito Santo, Brazil
112	Thermal and Shear-Dependent Rheological Properties of Aqueous Poly(ethylene oxide) Solutions	Daniel Almeida Marinato, Edson José Soares, Cleocir José Dalmaschio	Daniel Almeida Marinato	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
113	Degradation of Diutan Gum in Water: Comparative Effect of Processing by Ultrasound and Ultra-Turrax	Valéria Silva dos Santos, Cleocir José Dalmaschio, Edson José Soares, Andreas Nascimento	Valéria Silva dos Santos	Department of Chemistry, Federal University of Espírito Santo Brazil
114	Aqueous suspension of a hydrophobic polymer developed from oil-in-water emulsion evaporation for drag reduction	Júlia Mathias Castro, Edson José Soares, Cleocir José Dalmaschio	Júlia Mathias Castro	Department of Chemistry, Federal University of Espírito Santo Brazil
117	Numerical Analysis of the Drag Coefficient of Bubbles and Drops in Herschel-Bulkley Materials Under Low Reynolds Number Conditions	Leonardo Vinicius Coutinho Clarindo, Samuel Rebelo Zechinelli, Lucas Henrique Pagoto Deoclecio	Leonardo V. C. Clarindo	Department of Mechanical Engineering, Instituto Federal do Espírito Santo, Brazil
118	A Numerical Implementation of a Multimodal version of the Viscoelastic FENE-P Model	Leonardo Vinicius Coutinho Clarindo, Samuel Rebelo Zechinelli, Lucas Henrique Pagoto Deoclecio	Lucas H. P. Deoclecio	Department of Mechanical Engineering, Instituto Federal do Espírito Santo, Brazil
119	A Numerical Implementation of a Multimodal Version of the Elasto-viscoplastic Saramito Mode	Samuel Rebelo Zechinelli, Leonardo Vinicius Coitinho Clarindo, Lucas Henrique Pagoto Deoclecio	Samuel Rebelo Zechinelli	Department of Mechanical Engineering, Instituto Federal do Espírito Santo, Brazil
120	Development of an Experimental Unit to Evaluate Flow Restart of Gelled Fluids	Maicon Henrique Jose, Ronald Antunes Gomes, Diogo Elias da Vinha Andrade, Gabriel Goetten de Lima, Cezar Otaviano Ribeiro Negrão	Maicon Henrique José	CERNN, Federal University of Technology of Parana, Brasil
121	An Experimental Investigation of Polymer Drag Reduction in Pulsatile Turbulent Pipe Flow	Davi Nicoli Schimith Bergher, Lucas Antônio Silveira Silva, Michel de Oliveira dos Santos, Bruno Venturini Loureiro	Davi Nicoli Schimith Bergher	Department of Mechanical Engineering, Instituto Federal do Espírito Santo, Brazil
122	Rheological performance of biopolymer blends based on locust bean gum in glycerol dispersions for application in drilling fluids	Sabrina da S. Santos, Yane H. Santos, Géssica P. Mello, Admilson T. Franco	Sabrina da S. Santos	CERNN, Federal University of Technology of Parana, Brasil
125	Influence of Curing Temperature on the Rheological Behavior and Geopolymerization Kinetics of Metakaolin-Based Geopolymeric Pastes	Davi Vaz André Júnior, Madeleing Tabora Barraza, Isabela Devesa Batista, Sheila Mara Santos da Silva, Afonso Rangel Garcez de Azevedo	Davi Vaz André Júnior	State University of the North in Rio de Janeiro, Brazil.

127	Salt effects on the rheological performance of Xanthan Gum–Glycerol dispersions: viscoelastic behavior and structural stability	Bianca S. Sousa, Géssica Palaoro, Yane Honorato, Juliana R. Kloss, Admilson T. Franco	Bianca S. Sousa	CERNN, Federal University of Technology of Parana, Brasil
135	Study of the Effect of Thermal Exposure on the Apparent Viscosity of an Aqueous Fluid Used in High-Temperature Well Intervention Operations	Ruth L. N. Gonçalves, Laura R. C. Oliveira, Victoria B. Romualdo, Mário C. S. Lima, Daniella S. Leal, Lucas S. Ribeiro, Renalle C. A. M. Nascimento, Tiago A. Oliveira, Luciana V. Amorim	Ruth L. N. Gonçalves	Peflab/UFCG- Campina Grande - PB, Brazil
140	Rheology and Stability of Graphene–Carbopol Nanofluids	Yane H. Santos, Cecillia C. Tanner, Géssica Palaoro, Diogo E.V. Andrade, Admilson T. Franco	Yane H. Santos	CERNN, Federal University of Technology of Parana, Brasil
142	Rheological and density-based quantification of void fraction of waxy oil under quiescent cooling	Pedro Tavares Pereira, André da Silva Guimarães, Marcio Nele, Roney Leon Thompson	Pedro Tavares Pereira	Federal University of Rio de Janeiro, EPQB/EQ/UFRJ, Brazi
143	Simultaneous estimation of polymeric viscosity and relaxation time by inverse problems	Eduardo Marques Vieira, Wellington Betencurte da Silva, Ramon Silva Martins, Marcio Ferreira Martins, Humberto Belich	Eduardo Marques Vieira	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
144	Numerical study of the regularization parameter of the bi-viscous model for viscoplastic fluids in free-surface flows	Wesley Souza Araujo, Lorenzo Olivo Filippini, Guilherme Henrique Fiorot, Guillaume Gomit	Wesley Souza Araujo	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
146	Rheological and Filtration Evaluation of Lightweight Water- Based Drilling Fluids with CaCO <sub>3</sub> and HGS	Leonardo Teixeira da Costa, Patricia Viera de Olivera, Letycia Alyne Matei, Felipe Barboza Pereira, Vinicius Gustavo Poletto, Silvio Luiz de Mello Junqueira	Leonardo Teixeira da Costa	CERNN, Federal University of Technology of Parana, Brasil
151	The effect of oil and emulsifier compositions on the stability of essential oil emulsion	Nahyan Liz, Nezia de Rosso, Henrique Fujiwara, Maria Clara Diniz, Cezar Negrao	Nahyan de Liz	CERNN, Federal University of Technology of Parana, Brasil
154	Artificial neural network modeling of shear-thinning behavior in non-colloidal carbopol suspensions	Oscar Navas-Torres, Luis H. Quitian, Admilson T. Franco	Oscar Navas-Torres	CERNN, Federal University of Technology of Parana, Brasil
157	Effect of Wax Content on the Rheological Behavior and Gelation of a Model Lubricating Oil	Israel Junior Rodrigues de Andrade, Marcos Henrique Oliveira Petroni, Vitor Cezar Broetto Pegoretti, Lindamara Maria de Souza, Renato do Nascimento Siqueira, Amanda Eiriz Feu, Osvaldo Karnitz Jr., Marcia Cristina Khalil Oliveira, Luiz Carlos do Carmo Marques, Wanderson Romão	Israel Junior Rodrigues de Andrade	Instituto Federal do Espírito Santo, campus Vila Velha, Brasil
162	Rheological Dynamics of the Microstructural Transitions of Carboxymethylcellulose in a Saline Medium	Mirele Costa da Silva Farias, Karine Castro Nóbrega, Anna Carolina Amorim Costa, Maria Gabriely Félix de Siqueira, Waleska Rodrigues Pontes da Costa, Sóstenes Jerônimo da Silva, Michelli Karine Barros da Silva, Joelson da Cruz Campos, Luciana Viana Amorim	Waleska Rodrigues Pontes da Costa	Peflab/UFCG, Universitário, Campina Grande - PB
164	Comparative Evaluation of the Rheological Properties of Commercial and Industrial Xanthan Gums for Drilling Applications	Pedro Marszalek, Mariana Pereira, Admilson T. Franco	Pedro Marszalek	CERNN, Federal University of Technology of Parana, Brasil

165	Influence of Chemical Composition on Physicochemical Properties and Low-Temperature Rheology of Five Brazilian Crude Oils	Marcos Henrique Oliveira Petroni, Israel Junior Rodrigues de Andrade, Lindamara Maria de Souza, Renato do Nascimento Siqueira, Luciana Costa de Souza, Amanda Eiriz Feu, Vitor Cezar Broetto Pegoretti, Osvaldo Karnitz Jr., Marcia Cristina Khalil Oliveira, Luiz Carlos do Carmo Marques, Wanderson Romão.	Marcos Henrique Oliveira Petroni	Universidade Federal do Espírito Santo
169	Waxy from Combustion-Driven Pyrolysis: Rheology Characterization	Miriam S. Klippel, Kelvin C. O. Barbosa, Edson J. Soares, Marcio F. Martins	Miriam S. Klippel	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
170	Rheological Behavior and Stability of Xanthan Gum-Based Polymeric Blends in Brine Media for Sustainable Fluids	Jose Andrés Serna Quintero, Maíra Thensen, Luis H. Quitian-Ardila, Raquel Schimicoscki, Oriana Palma Calabokis, Admilson T. Franco	Jose Andrés Serna Quintero	CERNN, Federal University of Technology of Parana, Brasil
171	Rheological Behavior of Oily Sludges: Effects of Composition, Thermal Conditions, and Asphaltene/Paraffin Content	Ana Carolina Murta Silva, Nezia de Rosso, Cezar Otaviano Ribeiro Negrão	Ana Carolina Murta Silva	CERNN, Federal University of Technology of Parana, Brasil
301	Rheological and Interfacial Behavior of a Pre-Salt Water-in-Oil Emulsion formed with Acidic Desulphated Brine	Matheus C. Oliveira, Luis A. D. Altamirano, Agatha D. S. Francisco, Rafael N. G. dos Santos, Paulo Couto	Matheus C. Oliveira	Enhanced Oil Recovery Laboratory, COPPE, Federal University of Rio de Janeiro
175	Rheological evaluation of cementitious pastes with partial replacement by rice husk ash	Isabela Devesa Batista, Geannina Terezinha dos Santos Lima, Davi Vaz André Júnior, Ana Laura Lopes de Matos Riscado, Sheila Mara Santos da Silva, Madeleine Taborda Barraza, Afonso Rangel Garcez de Azevedo	Isabela Devesa Batista	State University of the North in Rio de Janeiro, Brazil.
179	Investigation of polymer-nanoparticle bridging effects in xanthan gum/carboxymethylcellulose blends with SiO <sub>2</sub> and AlO <sub>3</sub> nanoparticles	Tobias Krüger, Maíra Theisen, Oriana P. Calabokis, Raquel S. Schimicoscki, Luis Quitian-Ardila, Admilson T. Franco	Tobias Krüger	CERNN, Federal University of Technology of Parana, Brasil
180	Barite Sedimentation in Inclined Wells: Influence of Fluid Rheology and Geometry Observed by Backlight Technique	Raquel Stavale Schimicoscki, Eduardo Matos Germer, Admilson Teixeira Franco	Raquel Stavale Schimicoscki	CERNN, Federal University of Technology of Parana, Brasil
298	High-Order ALE-FE Method for Non-Newtonian Two-Phase Flows with Deformable Interface	Gustavo R. Anjos, Norberto Mangiacavchi, Roney L. Thompson, Fabio G. Junior, Gabriel, R. G. Sousa, Daniel B. V. Santos, Antonio E. M. Santos	Gustavo R. Anjos	Department of Mechanical Engineering, Universidade Federal do Rio de Janeiro, Brazil
181	Integration and Correlation of Thermodynamic (HPHT) and Rheological Properties of Drilling Fluids	Victor Kagueyama, Nezia de Rosso, Pedro Escorsin, Cezar Negrão	Victor Kagueyama	CERNN, Federal University of Technology of Parana, Brasil
293	A combined Rheology and CFD Framework for Pumping Tank Bottom Slurry	João Gabriel Clarindo, Nezia de Rosso, Vinicius Gustavo Poletto, Fernando Cesar De Lai, Silvio Luiz de Mello Junqueira	João Gabriel Clarindo	CERNN, Federal University of Technology of Parana, Brasil
292	Microstructural Dynamics and Rheological Response of a Complex Fluid Under Steady and Transient Shear Conditions	George Stephane Queiroz de Oliveira, Ana Carolina Murta Silva, Nezia de Rosso, Vinicius Gustavo Poletto, Fernando Cesar De Lai, Silvio Luiz de Mello Junqueira	George S. Q. Oliveira	CERNN, Federal University of Technology of Parana, Brasil
287	Rheological Optimization of a Non-Newtonian Fluid Using Central Composite Design	João Paulo T. Nagoya, Vanessa M. Picoli, Daniel L. Fonseca, Priscilla R. Vargas, Marllon F. Campos, Mônica F. Naccache, Paulo R. de Souza Mendes	João Paulo T. Nagoya	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil

	88	Experimental evaluation of the shear stress of e-CSB fluid during the withdrawal of a production column	Christian de Araujo, Roque Martins Duarte Junior, Cezar Otaviano Ribeiro Negrão	Christian de Araujo	CERNN, Federal University of Technology of Parana, Brasil
	237	Modelling Lost Circulation of Power-Law Fluids in a Porous and Fractured Channel using the Lattice Boltzmann Method	Hiago Souza da Silva, Felipe Barboza Pereira, Fernando César De Lai, Vinicius Gustavo Poletto, Silvio Luiz de Mello Junqueira	Hiago Souza da Silva	CERNN, Federal University of Technology of Parana, Brasil
	195	Investigation of Cuttings Suspension Capacity Using Water and a Viscoplastic Fluid Employing Coupled CFD-DEM Simulations	Diego Wanke, Lorenzo Olivo Filippini, Ayrton Cavallini Zotelle, Vinicius Gustavo Poletto, Silvio Luiz de Mello Junqueira	Eduardo Engelhardt	CERNN, Federal University of Technology of Parana, Brasil
<b>Poster Session - 2</b>					
	<b>Code</b>	<b>Title</b>	<b>Author(s)</b>	<b>Presenter</b>	<b>Institution(s)</b>
	182	Effect of different brines on the stability and rheology of xanthan gum solutions	Oriana Palma Calabokis, Vanessa A. Pereira Neves de Andrade, Máira Thensen, Luis Quitian-Ardila, Admilson Franco.	Oriana Palma Calabokis	CERNN, Federal University of Technology of Parana, Brasil
	185	Effect of the Fluid Rheology on Low Density Particle-Settling	Victor E. Santana, Admilson T. Franco, Eduardo M. Germer.	Victor E. Santana	CERNN, Federal University of Technology of Parana, Brasil
	191	Rheological Properties of Xanthan Gum, Guar Gum, Cellulose Gum and its blends with synergistic behavior	Isabel Hernández-Montoya, Fabian Ramos-Maldonado, Nezia de Rosso, Cezar Negrão	Isabel Hernández-Montoya	CERNN, Federal University of Technology of Parana, Brasil
	193	Lattice Boltzmann Method Simulation of a Herschel-Buckley fluid flow within a lifting Hele-Shaw cell	Cirilo Seppi Bresolin, Guilherme Henrique Fiorot, Lorenzo Olivo Filippini, Marcel Moura	Cirilo Seppi Bresolin	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	194	Experimental study of Hagen-Poiseuille flow for a Herschel- Bulkley fluid	Adriel Vergilio, Ronald Antunes Gomes, Abdullahi Ayo Olohunjoje, Guilherme Henrique Fiorot	Adriel Vergilio	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	197	Rheological Behavior of Geopolymer Systems for Oil-Well Cementing	Sheila Mara Santos da Silva, Ana Laura Lopes de Matos Riscado, Davi Vaz André Junior, Isabela Devesa Batista, Madeleing Taborda Barraza, Afonso Rangel Garcez de Azevedo	Madeleing Taborda Barraza	Advanced Materials Laboratory, UENF – State University of the North in Rio de Janeiro, RJ, Brazil
	199	Thermal Hysteresis and Rheological Stability of Nanosilica-Based Insulating Nanofluids	Michel Carniato do Amaral, Anna Clara Adami Zysko, Diogo Elias da Vinha Andrade	Michel Carniato do Amaral	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	201	From Powder to Fluid: Tracking Hydrocolloid Dissolution Kinetics through Rheological Measurements	Fabian Ramos Maldonado, Isabel Hernández Montoya, Nezia de Rosso, Cezar Negrão	Fabian Ramos Maldonado	CERNN, Federal University of Technology of Parana, Brasil
	204	Numerical investigation of Saffman-Taylor instabilities of a viscoplastic fluid flow in texturized Hele-Shaw cells	Lorenzo Olivo Filippini, Guilherme Henrique Fiorot, Cirilo Seppi Bresolin, Marcel Moura	Lorenzo Olivo Filippini	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	206	Influence of Water Concentration on the Rheological Behavior of Southern Brazilian Clays	Adriano de Oliveira Albuquerque Júnior, Guilherme Henrique Fiorot, Julia Neri Gezatt, Cirilo Seppi Bresolin, Diogo Elias da Vinha Andrade	Adriano de Oliveira Albuquerque Júnior	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	208	Effect of Cooling Rate on the Rheological Properties of Paraffinic Oil: A Comparison Between Rheometer Settings	Carolina Albuquerque Rodrigues, Rufino Kussima Agostinho Epesse, Michel Carniato do Amaral, Diogo Elias da Vinha Andrade	Carolina Albuquerque Rodrigues	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
	210	Protein Isolates from Fish Residues for Enhanced Oil Recovery Applications	Eliomar Pivante Céleri, Cleocir José Dalmaschio, Valdemar Lacerda Jr	Eliomar Pivante Céleri	Department of Chemistry, Federal University of Espírito Santo, Brazil

211	Rheology of Nanosilica Gels: The Role of Concentration and Thermal History	Anna Clara Adami Zysko, Michel Carniato do Amaral, Diogo Elias da Vinha Andrade	Diogo Elias da Vinha Andrade	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil
213	Numerical analysis of viscoelastic flow in a lid-driven cavity with varying solvent fraction using the Oldroyd-B model	F. O. Basso, P. R. M., Santos, M.A. Ferrari, A. T. Franco	Felipe O. Basso	CERNN, Federal University of Technology of Parana, Brasil
214	Simulation of Water Droplets in Oil as an Inverted Emulsion	Jaime Barbudo, Cezar Negrão	Jaime Barbudo	CERNN, Federal University of Technology of Parana, Brasil
215	Influence of Temperature and Chemical Composition on the Rheological Memory of Crude Oils	Gustavo Broetto Nunes, Jeferson Barcellos de Souza, Ana Paula Meneguelo	Gustavo Broetto Nune	Department of Technology, Federal University of Espírito Santo, São Mateus, Brazil
216	Effect of Eggshell on the Rheology and Mechanical Performance of Metakaolin-Based Geopolymer Pastes	Ana Laura Lopes de Matos Riscado, Madeleing Taborda Barraza, Carlos Maurício Fontes Vieira, Marksuel Teixeira Marvila, Afonso de Azevedo Rangel, Sheila Mara Santos da Silva, Isabela Devesa Batista	Ana Laura Lopes de Matos Riscado	State University of Northern Rio de Janeiro, Brazil.
217	Influence of Alternative Additives on the Rheological Behavior of Geopolymer Slurries for Oil Well Cementing	Sheila Mara Santos da Silva, Maria Eduarda Fernandes França, Davi Vaz André Junior, Madeleing Taborda Barraza, Afonso Rangel Garcez de Azevedo.	Maria Eduarda Fernandes França	Advanced Materials Laboratory, State University of Northern Rio de Janeiro, Brazil.
220	Thixotropy and Yield Stress Evolution in Laponite Suspensions Containing Non-Colloidal Particles	Luis H. Quitian-Ardila, Raquel Schimicoski, Oriana Palma Calabokis, Maira Thensen, Admilson T. Franco	Luis H. Quitian-Ardila	CERNN, Federal University of Technology of Parana, Brasil
222	Study of the Rheological Behavior of Model Oil and Crude Oil	Rondinely O. Soares, Rayane R. B. Corona, Rogério Ramos, Lígia F. Gaigher, Murilo Z. Elias	Rondinely O. Soares	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
224	Influence of polymeric viscosifiers pre-hydration water volume on rheological properties of water-based a drilling fluid	Emanuel Pereira de Queiroz, Eliardo Soares Coelho, Karla Adryane Palmeira da Silva, Pierre Basilio Almeida Fechine, Lucas Feitosa de Albuquerque Lima Babadopulos	Emanuel Pereira de Queiroz	Rheology of Materials Group, Universidade Federal do Ceará
225	Rheological Characterization of Chitosan-Sericin Hydrogels for Topical Applications	Bianca Araujo Simões, Anderson F. Sepulveda, Daniele R. de Araújo	Bianca Araujo Simões	Federal University of São Paulo, Brasil
228	Rheological analysis of water-based drilling fluids with carboxymethyl cellulose (CMC) and calcium chloride (CaCl <sub>2</sub> )	Fabiano Renaldi, Mariana Pereira, Géssica Palaoro, Yane H. Santos, Admilson T. Franco	Fabiano Renaldi	CERNN, Federal University of Technology of Parana, Brasil
229	Effects of Shear and Temperature During Aging Tests and Their Impact on the Rheology of Invert Emulsion Drilling Fluids	Gabriel Reis Simplicio de Souza, Marina Seixas Pereira, Claudio Roberto Duarte	Gabriel Reis Simplicio de Souza	Federal University of Uberlândia, Faculty of Chemical Engineering, Brazil
230	Correlation Between Static and Dynamic Yield Stresses in Water-Based Complex Fluids	Elisiane Berton, Nezia de Rosso, Cezar O. R. Negrão	Elisiane Berton	CERNN, Federal University of Technology of Parana, Brasil
231	Slot coating flows of Herschel–Bulkley materials	Raysa G. Santos, Marcio S. Carvalho, Ivan R. Siqueira	Raysa G. Santos	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
233	Experimental Analysis of the Influence of Fluid Rheology on Bottomhole Pressures During Surge and Swab Operations	Julio J A Abdala, Nezia de Rosso, Cezar O R Negrão	Julio J.A. Abdala	CERNN, Federal University of Technology of Parana, Brasil
239	Linear and non-linear viscoelasticity of Pickering emulsions	Ronald Antunes Gomes, Alexandra Araújo Alicke, Diogo Elias da Vinha Andrade	Ronald Antunes Gomes	Department of Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil

241	Rheological analysis of porous geopolymer pastes based on metakaolin with partial replacement by ceramic waste: methodology and expected results	Alexandre Alves Belga Esteves, Madeleing Taborda Barraza, Afonso Rangel Garcez de Azevedo, Markssuel Teixeira Marvila	Alexandre Alves Belga Esteves	Universidade Estadual do Norte Fluminense Darcy Ribeiro
244	Chitosan-Coated Polydopamine Nanoparticles: Rheological Behavior and Colloidal Stability for Skin Delivery	Iasmin Ferreira de Araujo, Mariana S. e Silva, Anderson F. Sepulveda, Thiago Lourenço, Karin A. Riske, Emerson R. da Silva and Daniele Ribeiro de Araujo	Iasmin Ferreira de Araujo	Federal University of São Paulo
245	Rheological characterization of water-in-oil model emulsions	Ligia Gaigher Franco, Murilo Zucatelli Elias, Rayane Reinholz Boone Corona, Renato do Nascimento Siqueira, Rogério Ramos	Ligia Gaigher Franco	Department of Mechanical Engineering, Federal University of Espírito Santo, Brazil
247	Rheological and mechanical behavior of alkali-activated pastes produced using oil well drilling cuttings	Eliardo Soares Coelho, Nelchaelle Lorraine Okandza Ebandza, Madson Lucas de Souza, Abcael Ronald Santos Melos, Emanuel Pereira de Queiroz, Afonso Augusto de Oliveira Neto, Ana Isabele Santos Sousa, Lucas Feitosa de Albuquerque Lima Babadopulos	Eliardo Soares Coelho	Universidade Federal do Ceará, Brasil
249	Development and verification of a novel Darcy source term for multiphase flow with binary mixtures composed of Herschel-Bulkley fluids	André M. de Castro, Hélio Ribeiro Neto, Filipe Eduardo C. de Souza, Franco Barbi, Jovani L. Favero, Roney L. Thompson, Mateus Palharini Schwalbert, Rafael Japiassú Leitão	André M. de Castro	Department of Mechanical Engineering, Universidade Federal do Rio de Janeiro, Brazil.
252	Molecular Weight Dependence on the Rheological Properties of Aqueous Solutions of the Biopolymer Acemannan	Tonny Araujo Moreira, Isaac dos Santos Orgino, Cleocir José Dalmaschio	Tonny Araujo Moreira	Department of Chemistry, Federal University of Espírito Santo, Brazil
259	Development and characterization of a biocomposite hydrogel of type I collagen and decellularized cartilage	Laís Lopardi Leal, Marizia Trevizani, Rodolpho José da Silva Barros, Ezio Henriqueta Silva Gomes, Guilherme Rainho Melhorim, Breno Valentim Nogueira, Edson José Soares, Carlos Magno da Costa Maranduba, Jair Adriano Kopke de Aguiar	Laís Lopardi Leal	Department of Biochemistry, Federal University of Juiz de Fora, Minas Gerais, Brazil
262	Development of a biocomposite hydrogel from decellularized bone extracellular matrix and bovine type I collagen	Marizia Trevizani, Laís Lopardi Leal, Rodolpho José da Silva Barros, Ezio Henrique da Silva Gomes, Guilherme Rainho Melhorim, Breno Valentim Nogueira, Edson José Soares, Fabiano Freire Costa, Jair Adriano Kopke de Aguiar, Carlos Magno da Costa Maranduba	Marizia Trevizani	Department of Biochemistry, Federal University of Juiz de Fora, Minas Gerais, Brazil
266	Sequential displacement of fluids through enlarged regions in annular ducts	Matheus P. Xavier, Vanessa M. Picoli, Priscilla R. Varges, Mônica F. Naccache, Paulo R. de Souza Mendes, Carlos P. Costa Carvalho, Umberto S. Junior, André L. Martins, José Marcelo S. Rocha, Ingrid E. da Silva, Iolanda S. de Siqueira	Matheus P. Xavier	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
272	A Rheological Approach to Understand Alzheimer's Disease	Victor Hugo dos S. C. Marques, Geiza A. Souto, Henrique N. Uchôa, Tiphane A. Figueira, Boris Leon F. C. Bazan, Priscilla R. Varges, Paulo R. de Souza Mendes, Nicolás A. Rey, Mônica F. Naccache	Victor Hugo dos S. C. Marques	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
276	3D Printing Applies to Rheology: Validation of Geometries with Yield Stress Materials	Gabriel S. Vieira, Vanessa M. Picoli, Priscilla R. Varges, Monica F. Naccache	Gabriel S. Vieira	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil

277	Interfacial Rheology of Oxidized and Non-Oxidized DOPC Monolayers	Gabriela Brasil, Tiphane A. Figueira, Priscilla R. Vargas, Bóris Leon F. C. Bazan, Nicolás A. Rey, Mônica Naccache, Paulo Roberto de Souza Mendes.	Gabriela Brasil	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
279	Study on the synergy between flexible polymers and carbon spheres for drag reduction	Lucas Antônio Silveira Silva, Edson José Soares, Aline Franco Batist, Cleocir José Dalmaschio	Lucas Antônio Silveira Silva	Department of Mechanical Engineering, Universidade Federal do Espírito Santo, Brazil
280	Rheological Characterization of Microcapsules Obtained Through Aqueous Two Phase Systems (ATPS)	Nicolý C. S. Senches, Raquel Schimicoscki, Maíra Theisen, Luis H. Quitian-Ardila, Oriana Palma Calabokis, Admilson T. Franco	Nicolý C. S. Senches	CERNN, Federal University of Technology of Parana, Brazil
281	Sedimentation of Glass Microspheres in Xanthan Gum Suspensions: Influence of Particle Size and Inclination	Julieth Carolina Botina-Ortega, Raquel Stavale Schimicoscki, Eduardo Matos Germer	Julieth Carolina Botina-Ortega	Federal University of Technology – Paraná (UTFPR), Curitiba, PR, Brazil
285	The Effect of Temperature Variation on the Formation and Structure of Crude Oil Monolayers at the Air/Water Interface	Geiza A. Souto, Tiphane A. Figueira, Priscilla R. Vargas; Osvaldo K. Junior, Marcia, C. K. de Oliveira, Mônica F. Naccache; Paulo R. S. Mendes	Geiza A. Souto	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
286	Rheological Investigation of Concurrent Flow Assurance Phenomena Under Subsea Conditions	Arthur G S Santos, Andrea Mora, Eliana P. Marin Castano, Cynthia R J Barreto, Priscilla R. Vargas; Osvaldo K. Junior, Marcia C. K. de Oliveira, Mônica F. Naccache, Paulo R. S. Mendes.	Arthur G S Santos	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
133	Assessing the impact of cooling rate on the rheology and microstructure of hair masks for industrial use	Giselle de Souza Cupertino, Rejane de Castro Santana, Vinícius Duarte de Paiva Pacheco, Maria Clara Gouvêa, Ana Laura Freitas Saraiva, Rita de Cassia Superbi de Sousa	Ana Laura Freitas Saraiva	Departamento de Química, Universidade Federal de Viçosa
1	Rheological Analysis of Fluids Containing Large Particulates Using the Infinite-Gap Couette Cell	Wanderson B. Costa, Anderson N. Viana, Priscilla R. Vargas, and Paulo R. de Souza Mendes	Wanderson B. Costa	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
153	Application of WLF-Barus thermo-piezoviscous model to wellbore thermal simulation under lost circulation	James Luigi Romano, Cezar Otaviano Ribeiro Negrao, Silvio Luiz de Mello Junqueira	James Luigi Romano	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil
265	Interfacial rigidity under HP/LT conditions: a dilatational rheology study of crude oils in brine	J.E. Leiva-Mateus, Priscilla R. Vargas, Eliana P. Marin Castano, Tiphane Figueira, Arthur G. S. Santos, Osvaldo J. Karnitz, Marcia C. Khalil de Oliveira, Monica F. Naccache, and Paulo R. de Souza Mendes	J.E. Leiva-Mateus	Department of Mechanical Engineering, Pontifical Catholic University of Rio de Janeiro, Brazil