

| SUNDAY, 15th MARS | | | | | | |
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| | 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 | 190 | Rheo-optical and tribological characterization of pSSAm-hydrogel-based artificial blood samples for understanding erythrocyte-blood-vessel-interaction and blood pump design | Florian Rummel, Gesine Hentschel, Florian Pape, Christina Winkler, Sabrina Küspert | Sabrina Küspert | Netzsch |
| | 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 Vinicius Pereira da Costa, Patrícia Vieira de Oliveira, Cezar Otaviano Ribeiro Negrão | Marcos Vinicius 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 |

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| - 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 COFFEE BREAK | | | | | | |
| 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. Chinelatto 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 POSTER SECTION 1 + COQUETEL | | | | | | |
| TUESDAY, 17th MARS | | | | | | |
| | Time | Code | Title | Author(s) | Presenter | Institution(s) |
| | 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 COFFEE BREAK | | | | | | |
| 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 |

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| 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 | 147 | Correlation Between Structure and Thermo-Rheological Properties of Xanthan Gum/Graphene Oxide Nanocomposites | Nathália M Moraes Fernandes, Gabriel Krug, Lorena R.C. Moraes, Matheus S Dias, Hélio Ribeiro, Camila M Maroneze, Monica Naccache, Ricardo J Espanhol Andrade | Ricardo J Espanhol Andrade | Mackenzie Presbyterian University, São Paulo, 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 | LUNCH | | | | | |
| S e s s i o n - 5 | Chairperson: | | Renato do Nascimento Siqueira | | | |
| | 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 | COFFEE BREAK | | | | | |
| S e | Chairperson: | | Diogo Andrade | | | |
| | 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 |

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| 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 | POSTER SECTION 2 + COQUETEL | | | | | |
| WEDNESDAY, 18th MARS | | | | | | |
| | Time | Code | Title | Author(s) | | Institution(s) |
| | 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 | COFFEE BREAK | | | | |
| 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 | LUNCH | | | | |
| | Chairperson: | | Roney Leon Thompson | | | |

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| S e 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 COFFEE BREAK | | | | | | |
| S e 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 CONFERENCE COKTAIL WITH A ROCK AND ROLL BAND PERFORMANCE | | | | | | |
| THURSDAY, 19ST MARS | | | | | | |
| | Time | Code | Title | Author(s) | Presenter | Institution(s) |
| S e 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 |

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| 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 Simplício, Marina Gouvêa, Rodrigo Barbosa, Victoria Braga, Ana Júlia Resende, Letícia Imbuzeiro, Luiz Martini | Gabrielle Simplício | 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 BastosSwinka Sievers, Fernanda Gabriela Henning, Desiree Cigaran Schuck | Franciane de Oliveira Cortez | Boticário Group |
| 12:10-14:00 LUNCH | | | | | | |
| S e S i O n - 11 | Chairperson: | | Cleocir José Dalmaschio | | | |
| | 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, Cecília 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 ¹ , 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, Nicolý 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 BCR 2026 Closing Session | | | | | | |
| Poster Session - 1 | | | | | | |
| | Code | Title | Author(s) | Presenter | Institution(s) | |
| Chairperson: | | Kelvin Cristien Barbosa | | | | |
| | 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 ₂ O ₂ and Nano-TiO ₂ on a geopolymer used for CO ₂ capture purposes: Chemical modifications through oscillatory rheology | Madeleing Taborda Barraza, Maria Eduarda Fernanda França, Sheila Mara Santos da Silva, Philippe Jean Paul Gleize, Afonso de Azevedo Rangel | Madeleing Taborda 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 | Roque Martins Duarte Junior | CERNN, Federal University of Technology of Parana, Brasil | |

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| 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 Taborda 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. |

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| 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 ₃ 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 |

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| 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 |
| 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 |
| 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 ₂ and AlO ₃ 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. Varges, 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 |

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| | 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 |
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| | Code | Title | Author(s) | Presenter | Institution(s) |
| | 182 | Effect of different brines on the stability and rheology of xanthan gum solutions | Oriana Palma Calabokis, Vanessa A. Pereira Neves de Andrade, Maira 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 Afevesa 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 |

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| 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 Tabora Barraza, Carlos Mauricio Fontes Vieira, Markssuel 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 Tabora Barraza, Afonso Rangel Garcez de Azevedo. | M a r i a E d u a r d a 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 Schimicoscki, 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 ₂) | 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 Aliche, Diogo Elias da Vinha Andrade | R o n a l d A n t u n e s 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 Tabora 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 |

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| 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, Institute 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, Institute 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. Varges, Boris 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 Schimicoski, Maíra Theisen, Luis H. Quitian-Ardila, Oriana Palma Calabokis, Admilson T. Franco | Nicolý C. S. Senches | CERNN, Federal University of Technology of Parana, Brasil |

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| | 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 ¹ 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 |
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