

IX BRAZILIAN CONFERENCE ON RHEOLOGY 2022



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**BRAZILIAN MATERIALS
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BCR22 - PROGRAM

TUESDAY, 29th NOVEMBER					
Time	Code	Title	Author(s)	Presenter	Institution(s)
07:50 - 08:20	Registration - opening of the welcome desk				
Session 1	Chairperson: Ricardo Jorge Espanhol Andrade				
	Opening Address - Organizing Committee				
	08:50 - 09:40	KN-01	Rheology as a Tool to Characterize and Control Blends and Nanocomposites Morphology	Nicole R. Demarquette	Ecole de Technologie Supérieure de Montréal - Canada
	09:40-10:00	BCR15	Linear viscoelasticity of PP/PS/MWCNTs composites: co-continuous morphology evolution and filler network stability investigation	Strugova Daria, Eric David, Nicole R. Demarquette	Daria Strugova ÉTS - Canada
	10:00-10:20	BCR03	A procedure for parameter estimation of nonlinear terms of constitutive models using flow-induced birefringence data and numerical flow simulation of molten polymers	André M. de Castro, Juliana O. Pereira, Verônica M. A. Calado, and Argimiro R. Secchi	Verônica M. A. Calado UFRJ
10:20-10:50	COFFEE BREAK				
Session 2	Chairperson: Edvaldo Sabadini				
	10:50-11:10	BCR30	Rheological Properties of Tetrahydrofuran Hydrate Slurries with Solid Fractions Below and Above the Flow Limit	Guilherme Mülhstedt, Diogo E. V. Andrade, Cezar O. R. Negrão	Guilherme Mülhstedt UTFPR / UFRGS
	11:10-11:30	BCR07	Determining the yield strength as a unique property of time-dependent materials	Behbood Abedi, Eliana P. Marin Castaño, Elias C. Rodrigues, Roney L. Thompson and Paulo R. de Souza Mendes	Behbood Abedi PUC-Rio / UFRJ
	11:30-11:50	BCR41	Startup flow of thixotropic elasto-viscoplastic materials through a sudden planar contraction	Luiz Paulo Borges Miranda, Daniel Dall'Onder dos Santo	Luiz Paulo Borges Miranda UFU
	11:50-12:10	BCR21	Rheological studies of a yield strength material displacement in a radial Hele-Shaw cell	Behbood Abedi, Lara Berghie, Bruno da Silva Fonseca, Elias C. Rodrigues, Rafael Oliveira and Paulo de Souza Mendes	Elias C. Rodrigues PUC-Rio
	12:10-12:30	BCR64	Rheometers and equipments	To be defined	To be defined Ta Instruments
12:30-14:00	LUNCH				
Session 3	Chairperson: Jorge Manuel Jardim da Silva				
	14:00-14:50	KN-02	Microscale Phenomena of Complex Liquid Flow in Porous Media	Marcio S. Carvalho	PUC-Rio
	14:50-15:10	BCR54	Displacement flows through eroded zones in oil wells	Priscilla R. Varges, Bruno da Silva Fonseca, Lorena C. Moraes, Elias C. Rodrigues, Mônica Feijó Naccache, Paulo R. de Souza Mendes, Carlos Pessanha Costa Carvalho, André Leibsohn Martins, Ingrid Ezechiello da Silva and Pedro J. Tobar Espinoza	Priscilla R. Varges PUC-Rio / Petrobras / ECOTEC Equador
	15:10-15:30	BCR43	Bifurcation in a squared lid-driven cavity with viscoplastic fluid using lattice Boltzmann method	Marco Aurélio Ferrari, Admilson T. Franco	Marco Aurélio Ferrari UTFPR
	15:30-15:50	BCR55	Miscible displacements of Carreau-Yasuda fluids : constitutive equation for one-fluid formulation	Pedro J. Tobar Espinoza and Rafael M. Oliveira	Rafael M. Oliveira ECOTEC Equador / PUC-Rio
	15:50-16:10	BCR57	Mathematical model for tightness tests in long isothermal lines	Ricardo Knesebeck, Cezar O. R. Negrão	Cezar O. R. Negrão UTFPR
16:10-17:10	COFFEE BREAK + Poster Session 1				
Session 4	Chairperson: Diogo Elias da Vinha Andrade				
	17:10-17:30	BCR56	Numerical schemes assessment for blood flow simulation through Central Venous Catheters	Raphael Machado Cezar, Guilherme Henrique Fiorot	Raphael Machado Cezar UFRGS
	17:30-17:50	BCR14	Viscoelastic Behavior of Pressure-Sensitive Adhesive Based on Block Copolymer and Kraft Lignin	De Sousa Junior, R. R., Garcia, G. E. S., Dos Santos, D. J., Danilo Carastan	Danilo Carastan UFABC
	17:50-18:10	BCR51	Numerical simulation of suspension flows in plate-plate rheometer geometry	Nezia de Rosso, Cezar Otaviano Ribeiro Negrão	Nezia de Rosso UTFPR
	18:10-18:30	BCR05	How to characterize the interfacial rheology of liquid interfaces with a geometric parameter for drop shape tensiometry ?	Anthony Hutin, Marcio S. Carvalho	Anthony Hutin PUC-Rio

Poster Session 1 - TUESDAY, 29th, 16:10-17:10					
Time	Code	Title	Author(s)	Presenter	Institution(s)
Poster Session 1	Chairperson: Nezia de Rosso				
	16:10-17:10	BCR01	Study of Elastic and Viscous Effects in Enhanced Oil Recovery by Polymeric Solution Injection in Sandstones	Ademir Medeiros, Ranena V. Ponce, Márcio S. Carvalho	Ademir Medeiros PUC-Rio
	16:10-17:10	BCR28	Investigation of the effect of pressure on dynamic moduli and yield stress of an inverted emulsion drilling fluid	Géssica Palaoro, Diogo E. V. Andrade, Admilson T. Franco	Géssica Palaoro UTFPR / UFRGS
	16:10-17:10	BCR33	Rheological study of emulsions O / W with graphene oxide	Jairo E. Leiva-Mateus, Lorena R. da C. Moraes, Mônica F. Naccache, Ricardo Jorge E. Andrade, Helio Ribeiro	Jairo E. Leiva-Mateus PUC-Rio / Mackenzie
	16:10-17:10	BCR08	Utilization of power ultrasound during the production of BRS Carmem wine : rheological and physicochemical studies	Bianca Guimarães, Mauricio Bonatto Machado de Castilhos, Javier Telis Romero	Bianca Guimarães UNESP / UEMG
	16:10-17:10	BCR17	Rheological and structural evaluations of commercial dairy mixes	Denise Tiemi Uchida, Karina Midori Endo, Ruan Rompato Vieira, Mariana Carla de Oliveira and Glécila Colombelli de Souza Nunes	Denise Tiemi Uchida UEM
	16:10-17:10	BCR35	Oscillatory rheometry to monitoring yield stress in cementitious pastes	José Augusto F. Mesquita, Maciel, M.H.; Romano, R.C.O.; Pileggi, R.G.	José Augusto F. Mesquita USP
	16:10-17:10	BCR26	Flow and viscoelastic properties of polymer blends composed of poloxamer 407 and cellulose derivatives for topical administration	Gabrielli Furlan, Jéssica Bassi da Silva, Marcos Luciano Bruschi	Gabrielli Furlan UEM
	16:10-17:10	BCR59	Visualization of shrinkage in a graduated cylinder with waxy oil	Roque Martins Duarte Junior, Nezia de Rosso, Cezar Otaviano Ribeiro Negrão	Roque Martins Duarte Junior UTFPR
	16:10-17:10	BCR32	Retraction of a droplet under the influence of neighboring droplets and determination of its apparent interfacial tension	Jairo E. Leiva-Mateus, Marco A. H. Reyes, F. Méndez, E. Geffroy	Jairo E. Leiva-Mateus UNAM México
	16:10-17:10	BCR60	Flow Rate Predictions for a Waxy Crude Emulsion	Thiago O. Marinho, Márcia C. K. de Oliveira, Antônio M. C. Maciel, André S. Guimarães, Márcio Nele	Thiago O. Marinho UFRJ / Petrobras

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BCR22 - PROGRAM

WEDNESDAY, 30th NOVEMBER					
Time	Code	Title	Author(s)		Institution(s)
08:20	Registration - opening of the welcome desk				
Chairperson: Danilo Justino Carastan					
Session 5	08:50 - 09:40	KN-03	Rheology as a Critical Enabler of Polymer Processing : Extensional-Driven Mixing in Extrusion and Multi-Layered Tubes , Pipes and Bottles	João Maia	CASE USA
	09:40-10:00	BCR52	Rheological methods to understand product performance and aging behavior of adhesives and sealants	Paula K. Kuroishi, Manuela L. Q. A. Kaneko	Paula K. Kuroishi Saint-Gobain Research Brazil
	10:00-10:20	BCR24	Rheological characterization of Hybrid Electroactive Shape Memory Nanocomposites of Thermoplastic Polyurethane reinforced with Graphene Nanoplates and Carbon Nanotubes	Fernanda Cabrera Flores Valim, Lucilene Betega de Paiva, Ricardo Jorge Espanhol Andrade	Fernanda Cabrera Flores Valim Mackenzie / IPT
	10:20-10:50	COFFEE BREAK			
Chairperson: Priscilla Ribeiro Vargies					
Session 6	10:50-11:10	BCR42	Impact pf packing optimization on the rheological changes of high-performance cements	Marcel H. Maciel, José A. F. S. de Mesquita, Roberto C.O. Romano, Rafael G. Pileggi	Marcel H. Maciel USP
	11:10-11:30	BCR06	Pre-salt Crude Oil Rheology at High Pressure and Low Temperature	Antonio M. C. Maciel, Rafael Mendes, Thiago O. Marinho, Márcia C. K. de Oliveira	Antonio M. C. Maciel Petrobras / UFRJ
	11:30-11:50	BCR18	The influence of high-pressure and high-temperature environment on the rheological properties of bentonite - free water - based drilling fluids	Diogo E. V. Andrade ,Luis H. Quitian, Admilson T. Franco	Diogo E. V. Andrade UFRGS / UTFPR
	11:50-12:10	BCR22	Pressure Mapped Squeeze Flow applied to cementitious and ceramic suspensions	Franco Ancona Grandes, Fábio Alonso Cardoso, Rafael Giuliano Pileggi	Fábio Alonso Cardoso USP
	12:10-12:30	BCR65	A roadmap for the reproducible determination of yield stresses	Fabian Meyer, Ricardo Souza	Ricardo Souza Thermo Fischer
	12:30-14:00	LUNCH			
Chairperson: Cezar Otaviano Ribeiro Negrão					
Session 7	14:00-14:50	KN-04	Rheometry of field-responsive materials	Prof Francisco José Galindo Rosales	Universidade do Porto
	14:50-15:10	BCR53	"Infinite"gap Couette rheometry: a simple way to measure yield strength	Paulo R. de Souza Mendes and Priscilla R. Vargies	Paulo R. de Souza Mendes PUC-Rio
	15:10-15:30	BCR12	Rheological and physico-chemical characterization of hair care cosmetic emulsions containing different solvents and surfactant systems	Cyrus Veiga Andriolo	Cyrus Veiga Andriolo L'Oréal Brasil
	15:30-15:50	BCR20	Numerical method for predicting the W / O emulsion rheology	Eliana P. Marín Castaño; J. A. Garcia Cardenas; P. R. de Souza Mendes	Eliana P. Marín Castaño PUC-Rio / UFRJ
	15:50-16:10	BCR16	Solution-gel transition temperature of binary polymeric systems (Poloxamer 407 and cellulose derivatives)	Denise Tiemi Uchida, Igor Alves Endrice, Sandy Aline Forastieri Gerarduzzi, Marcos Luciano Bruschi, Jessica Bassi da Silva	Denise Tiemi Uchida UEM
	16:10-16:30	BCR46	Rheological monitoring of curing-induced phase separation in PEI / epoxy semi-interpenetrating polymer networks	Matheus Mendes De Oliveira; de Sousa Junior, r. R.; Uvdal, k.; Selegard, I.; Carastan, D. J	Matheus Mendes De Oliveira UFABC / IFM Sweden
	18:00-22:00	Conference Cocktail			

IX BRAZILIAN CONFERENCE ON RHEOLOGY 2022



BCR22 - PROGRAM

THURSDAY, 1ST DECEMBER					
Time	Code	Title	Author(s)	Presenter	Institution(s)
08:20	Registration - opening of the welcome desk				
Session 8	Chairperson: Verônica Calado				
	08:50 - 09:40	KN-05	Self-organization in purely viscous non-Newtonian turbulence	José Soares Andrade, Jr.	UFC / ETH Zurich
	09:40-10:00	BCR45	pH-responsive wormlike micelles for acid stimulation in carbonate reservoirs	Matheus da Silva Barbosa; Manazael Zuliani Jora, Renato Nunes de Souza; Carlos Speglich; Edvaldo Sabadini	UNICAMP / Petrobras
	10:00-10:20	BCR44	Gelation temperature and rheological evaluation of polymeric systems containing meloxicam for nasal administration	Maria Vitoria Gouveia Botan, Jéssica Bassi da Silva, Marcos Luciano Bruschi	Maria Vitoria Gouveia Botan UEM
	10:20-10:50	COFFEE BREAK			
Session 9	Chairperson: Daniel Dall'Onder dos Santos				
	10:50-11:10	BCR02	Study on the Rheological Behavior of Landslide Materials with the Lissajous - Bowditch Parametric Curves	Ana L. Halabi, Victor K. Sakano, Marcos M. Futai & Rafael G. Pileggi	Ana L. Halabi USP
	11:10-11:30	BCR04	Study of Shear and Extensional Rheology of Mechanically Degraded SiO2 - HPAM solutions	Andrea Mora, Anthony Hutin, Jorge Avendaño, Marcio S. Carvalho	Andrea Mora PUC-Rio
	11:30-11:50	BCR23	Experimental Study of Lost Circulation Mitigation Using A Herschel-Bulkley Fluid	Felipe B. Pereira, Fernando C. De Lai, Alex T. A. Waldmann, André L. Martins, Silvio L. M. Junqueira	Felipe B. Pereira UTFPR / Petrobras
	11:50-12:10	BCR39	Rheology of amino-functionalized graphene oxide suspensions on hydrogel	Lorena R. da C. Moraes Monica F. Naccache, Ricardo Jorge E. Andrade, Helio Ribeiro	Lorena R. da C. Moraes PUC-Rio / Mackenzie
	12:10-12:30	BCR63	Rheometers and equipments	To be defined	To be defined Anton Paar
	12:30-14:00	LUNCH			
Session 10	Chairperson: Paulo Roberto de Souza Mendes				
	14:00-14:50	KN-06	Rheology-Informed Neural Networks (RhINNs) for complex fluids and soft matter	Safa Jamali	Northeastern University, USA
	14:50-15:10	BCR25	Rheological characterization of wormlike micelles , a supramolecular vehicle for the anesthetic propofol .	Fernando Bonin Okasaki, Edvaldo Sabadini	Fernando Bonin Okasaki UNICAMP
	15:10-15:30	BCR47	Rheology of nanosheets of hexagonal boron nitride dispersed in a polymeric system	Yago C. Soares, Monica F. Naccache, Ricardo Jorge E. Andrade, Helio Ribeiro	Monica F. Naccache PUC-Rio / Mackenzie
	15:30-15:50	BCR31	How The Type Of Solvent Influences The Confined Mediums In Reverse Wormlike Micelles (RWLM)	Hilda Camila Nascimento Nogueira, Edvaldo Sabadini	Hilda Camila Nascimento Nogueira UNICAMP
	15:50-16:10	BCR38	Liquid-Liquid Displacement Flows in A Radial Hele-Shaw Cell	Lara Schimith Berghe, Bruno da Silva Fonseca, Priscilla Ribeiro Vargas, Mônica Feijó Naccache, Paulo Roberto de Souza Mendes, Marcia Cristina Khalil de Oliveira, Aline Machado de Azevedo Novaes, Rafaela Magliano Balbi de Faria, Rogério Mesquita de Carvalho	Lara Schimith Berghe PUC-Rio / Petrobras
	16:10-17:10	COFFEE BREAK + Poster Session 2			
Session 11	Chairperson: Monica F. Naccache				
	17:10-17:30	BCR40	Rheological characterization of non-colloidal suspensions in yield stress fluids	Luis H. QUITIAN, Yamid J. Garcia, Angel D. J. Rivera, Diogo E. V. Andrade, Admilson T. Franco	Luis H. QUITIAN UTFPR / UFRGS
	17:30-17:50	BCR48	Inducing wormlike micelles formation by acetylsalicylic acid and hydroxylamine reaction	Nahyan Liz, E. Sabadini	Nahyan Liz UNICAMP
	17:50-18:10	BCR37	Study of the miscibility of acrylics and styrenics polymer blends by parallel plate rheometry	Juciklécia S. Reinaldo, Marcelo M. Ueki, Edson N. Ito	Juciklécia S. Reinaldo UFRN / UFS / UEA
		18:10-18:30	BCR2022 Closing Session		

Poster Session 2 - THURSDAY, 1ST DECEMBER, 16:10-17:10					
Time	Code	Title	Author(s)	Presenter	Institution(s)
Chairperson: Thiago O. Marinho					
16:10-17:10	BCR29	Study of steady-state rheology of Biodegradable Polymeric Nanocomposites based on Poly (hydroxybutyrate-co-hydroxyvalerate) – PHBV and Graphene Oxide	Giovanna da Cruz Silva; Natália Ferreira Braga; Guilhermino José Macêdo Fecine	Giovanna da Cruz Silva	Mackenzie
16:10-17:10	BCR62	Evaluation of the rheological properties of biopolymer solutions of pullulan to obtain fibers by electrospinning	Victor R.L. Oliveira, E.F.C. Sérvulo, V.M.A. Calado	Victor R.L. Oliveira	UFRJ
16:10-17:10	BCR49	Study of steady-state rheology and thermal properties of ABS / graphene nanocomposites	Natália Ferreira Braga, Giovanna da Cruz Silva, Guilhermino José Macêdo Fecine	Natália Ferreira Braga	Mackenzie
16:10-17:10	BCR27	Experimental investigation of the effect of SiO ₂ nanoparticles on the rheological properties of Carbopol	Ana Kresko, Gêssica Palaoro, and Admilson T. Franco	Gêssica Palaoro	UTFPR
16:10-17:10	BCR10	Continuous shear rheological analysis of emulgels containing propolis extract	Bruna Gheller de Souza, Caroline Vital, Fernanda Belincanta, Borghi Pangoni, Marcos Luciano Bruschi	Bruna Gheller de Souza	UEM
16:10-17:10	BCR36	Rheological Characterization of Different Cassava Starches For The Development of Bioplastic	Carlos H. R. Mifont, Maria E. M. Nascimento, Juciklécia S. Reinaldo, Edson N. Ito	Juciklécia S. Reinaldo	UFRN / UEA
16:10-17:10	BCR13	First insights into the rheology of latex thin films formation: the influence of polymers' and surfactants' nature	Daniela A. V. Fogaça da Rocha, E. Sabadini	Daniela A. V. Fogaça da Rocha	UNICAMP
16:10-17:10	BCR61	Rheological and Thermal Properties of Plasticized PHB	Victor Branceler Sutti, Dos Santos, C. A. S., De Sousa Junior, R. R., Dos Santos, D. J.	Victor Branceler Sutti	UFABC
16:10-17:10	BCR09	Rheological behavior of unconventional osmotic solution - Sorbitol	Maria Julia Neves Martins, Marcio Augusto Ribeiro Sanches, Bianca Guimarães, Javier Telis Romero	Bianca Guimarães	UNESP