

16º CBPol
CONGRESSO
BRASILEIRO
DE
POLÍMEROS
16th Brazilian Polymer Conference

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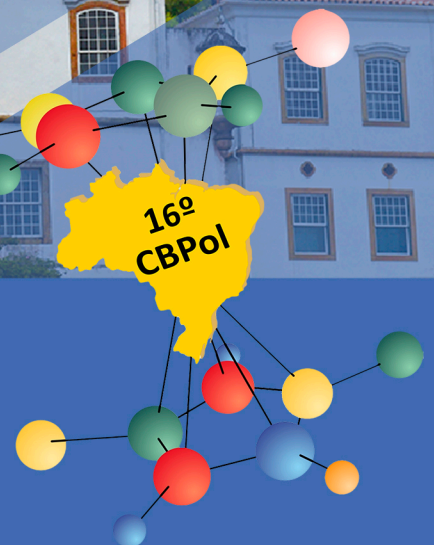
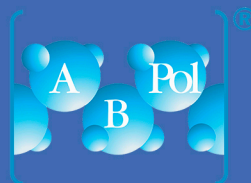
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PROGRAM BOOK



16th Brazilian Polymer Congress

October 24 to 28, 2021

ONLINE

Ouro Preto-MG

REALIZATION



Congresso Brasileiro de Polímeros (16.:2021: Ouro Preto-MG)

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Editorial

CBPOL - Brazilian Polymer Congress - is a biennial event that has been going on for 30 years, since 1991. It is organized by the Brazilian Polymers Association - ABPol and welcomed about 800 participants in its 15th edition.

The 16th CBPol will be held from October 24 to 28, 2021, in a totally online format, having as “virtual venue” Ouro Preto in Minas Gerais - a revolutionary city which is always ahead of its time. In addition to the novelty of its digital format, this will be the first International CBPol and we are looking forward to the attendance of researchers, students and organizations from several countries.

Former capital of Minas Gerais in colonial times, Vila Rica, besides being recognized for its architectural beauties, is also a symbol of progress and innovation. Home of one of the first Higher Education Institutions in Latin America, created in 1839, the cosmopolitan Ouro Preto is in tune with the objectives of the 16th CBPol where internationally renowned scientists, researchers and students from Brazil, Latin America and other countries will present and discuss their research on polymers.

In parallel, delegates will be able to attend online technical exhibitions and webinars from polymer companies and laboratory equipment manufactures, which will enrich discussions by recycling ideas and renewing concepts.

We encourage the participation of all those who think polymers plays a fundamental role in modern society. We strongly believe that this will be a more comprehensive, innovative and inclusive CBPol due to its online format and international participations.

Share your ideas and let's write another chapter of our history!

Be welcome!

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Organizing Committee

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Summary table of activities

Sunday, October 24, 2021

19:30 - 20:30	Opening Ceremony and Awards
20:30 - 21:00	Cultural event

Monday, October 25, 2021

Morning Sessions

8:30 - 9:20 - **PLENARY SESSION 1:** Alejandro J. Müller - University of the Basque Country UPV/EHU (Spain)
 “Application of the SSA thermal fractionation technique to thermoplastic polyurethanes and recycled polyolefin blends”
 CHAIR: Claudio Gouvêa dos Santos

9:30 - 10:20 - **PLENARY SESSION 2:** Denise Petri – USP (Brazil)
 “Polysaccharides as platforms for new functional materials”
 CHAIR: Cristiane Finzi-Quintão

10:20 - 10:30 - **Break**

Session	01-Environmental issues associated with polymers CHAIR: Daniel Pasquini	04-Polymer nanostructures and nanocomposites CHAIR: Carolina Morelli	05-Blends, composites and polymer networks CHAIR: Elisângela Corradini	06-Polymerization reactions and polymer chemistry CHAIR: Cesar Petzhold	08-Special polymer applications CHAIR: João Paulo Santos
10:30 - 10:50	4DNH - Thermoplastic starch - urea, a feasible alternative in order to storage nitrogen as fertilizer - Daniel de Souza Gamarano (UEMG)	4DMV - Evaluation of shape memory in PLA/TPU filaments with carbon nanotubes and graphene nanoplatelets - Nayara Koba de Moura (UNIFESP)	4DMX - Polyipinene and chitosan blends for functional bio-based film production - Plínio Ribeiro Rodrigues (UNICAMP)	4DPJ - The influence of curing agent ratio on epoxy resin by using FTIR spectroscopy - Lincoln Araujo Teixeira (UNB)	4DPH - Design of experiments and regression analysis for a compositional study of EVA foams - Murilo Lauer Sanson (Braskem)
10:50 - 11:10	4DNM – Influence of the incorporation of crystal polystyrene in expanded polystyrene microfibers in the removal of oil in emulsion - Laura Valácio de Carvalho (UFLA)	4DMY - Evaluation of the mechanical and electromagnetic Shielding properties PC/ABS blends-based graphene nanoplates nanocomposites - Fábio Roberto Passador (UNIFESP)	4DNY - Transparent wood composites fabricated by impregnation of epoxy resin into Jupati Petiole (Raphia Taedigera) - Lauro Arthur Farias Paiva Cohen (UEMG)	4DPF - PHOTO-OMRP of Butyl Acrylate Using New Ni(II) Complexes Coordinated to Non-Symmetric and Symmetric Schiff Bases - Naralyne Martins Pesqueira (UNESP)	4DPP - Evaluation of PEDOT:PSS hybrid capacitor with titanium and aluminum composite dielectric - Paola Dornel da Silva (UFRGS)
11:10 - 11:30	4DPC - Photopolymerization of limonene - Roniérik Pioli Vieira (UNICAMP)	4DNX - Improving the dispersion of MWCNT in PP using controlled extension flows in extrusion processing - Marcel Andrey de Goes (UEPG)	4DRF - Effect of addition of glassy carbon and graphene nanoplatelets on mechanical properties of pol (acid lactic)/poly(3-hydroxyvalerate-co-3-hydroxyvalerate) blend - Isabela Cesar Oyama (UNIFESP)	4DMW - Organocatalyzed atom transfer radical polymerization of β -Pinene: synthesis and characterization - Plínio Ribeiro Rodrigues (UNICAMP)	4DPW - The Functionalization of Carbohydrate Polymers with B-Cyclodextrin Enhances Binding of Monophenols - Roberto Aguado Garcia (Universidade de Coimbra, Portugal)

Summary table of activities

11:30 - 11:50	4DQ4 - Polypropylene composite reinforced with unsmoked cigarette butts: influence of hydrogen peroxide fiber treatment on flexural properties - Alcides Lopes Leão (UNESP)	4DP6 - Evaluation of antimicrobial activity of PLA porous membranes containing BG45S5 and MWCNT - Nayara Koba de Moura (UNIFESP)	4DTN - Comparison study of calcined kaolin untreated and treated with silane for polyamide 6,6 - Gabriele Polezi (Imerys Campinas)	4EAA - Photochemical nitric oxide release from s-nitrosothiol-functionalized chitosan - Herllan Vieira de Almeida (UNICAMP)	4DTP - Biobased-matrices for nutrients sustainable coatings - Débora França (USP)
11:50 - 12:10	4DQG - Biodegradation and release correlations in soil/water medium of the polymer-fertilizer-based system - Roselena Faez (UFSCAR)	4DPG - Biosynthesis of silver nanoparticles using onion extract - Letícia Maria de Oliveira (UNIARA)	4DTQ - Study of O ₂ transmission rate in BIIR rubber compound for different aspect ratio and particle size kaolins - Felipe Fantatho (Imerys)	4DPV - A Green Approach to Obtain Crosslinked Starch Through Reaction With Tartaric Acid by Reactive Extrusion - Jéssica Fernanda Pereira (UEL)	4DTP - Biobased-matrices for nutrients sustainable coatings - Débora França (USP)
12:10 - 14:00	Lunch				

Afternoon Sessions

14:00 - 14:50	PLENARY SESSION 3: Ulrich Wiesner – Cornell University (USA) “Polymer Self-Assembly based Functional Materials” CHAIR: Rodrigo Oréfice				
15:00 - 15:50	PLENARY SESSION 4: Sadhan C. Jana – The University of Akron (USA) “Design of Polymer-Derived Nanoparticles, Nanorods And Porous Microparticles” CHAIR: João Paulo Santos				
15:50 - 16:00	Break				
Session	02-Processing and printing of polymers CHAIR: Kátia Novack	03-Biomedical applications of polymers CHAIR: Denise Petri	07-Polymer physics and characterization CHAIR: Marcelo Rabello	04-Polymer nanostructures and nanocomposites CHAIR: Patrícia Patrício	Technical session CHAIR: Leonardo Canto
16:00 - 16:20	4DND - Influence of different kneading blocks elements on polymer mixture dispersion during twin-screw extrusion - Felipe Oliveira Campos Bernardo (UFSCar)	4DNC - Wearable device based on electrospun gelatin/polycaprolactone nanofibers loaded with diclofenac potassium aiming a potential anti-inflammatory action - Gabriella Onila do Nascimento Soares (UFMG)	4DM4 - Dynamic wetting behavior of HDPE and PA 12 in contact with water - Ayrton Alef Castanheira Pereira (PUC-RIO)	4DQJ - Synthesis and characterization of heptakis-aminocyclodextrin nanosponges - Gianluca Utzeri (UC - Universidade de Coimbra)	

16:20 - 16:40	4DQ6 - Improving the dispersion of graphite in PP using controlled extension flows in extrusion processing - Marcel Andrey de Goes (UEPG)	4DNF - Evaluation of the dissolution profile and trypanocidal activity of benzimidazole incorporated in PEG 4000 and its derivatives - Lucas Resende Dutra Sousa (UFOP)	4DNS - Evaluation of the degradation process of polyethylene by dilute solution viscosity - João Augusto Osório Brandão (UFRGS)	4DR4 - Synergistic effect of adding graphene nanoplates and carbon nanotubes in PC/ABS blends - Erick Gabriel Ribeiro dos Anjos (UNIFESP)	4EEK - Exploring the Impact of Humidity on Material Properties - Jason Saienga PhD TA Instruments USA – Product Manager
16:40 - 17:00	4DVC - Feasibility of using polymer blended filaments for fused deposition modeling 3d printing - Kasitpong Thanawuth (Silpakorn University (SU) - Faculty of Pharmacy, Tailândia)	4DQT - Orodispersible films containing chlorhexidine digluconate: physical characterization and microbiological in vitro analysis - Geanne Aparecida de Paula (UFES)	4DS2 - Fully Automated Instrument for Solution Viscosity in Polymeric Materials - Alberto Ortín Sebastián (Polymer Char)	4DRP - Synthesis of chitosan-based quantum dots: an analysis of the synthesis parameters - Bruno Peixoto de Oliveira (UECE)	4EET - The Royal Society of Chemistry short view over How to Publish - Elizabeth Magalhães (Royal Society of Chemistry - RSC - Brazil office)
17:00 - 18:30	POSTER PRESENTATION #1: 01, 02, 03 and 06				

Tuesday, October 26, 2021

Morning Sessions

8:30 - 9:20 - **PLENARY SESSION 5:** André Studart - ETH Zürich (Switzerland)
 “3D Printing of Polymers into Biologically-Inspired Structures”
 CHAIR: Daniel Pasquini

9:30 - 10:20 - **PLENARY SESSION 6:** Rosario Bretas – UFSCar (Brazil)
 “Electrospinning: an Old Technique for New Applications”
 CHAIR: Kátia Novack

10:20 - 10:30

Break

Session	02-Processing and printing of polymers CHAIR: Patrícia Patrício	03-Biomedical applications of polymers CHAIR: Rodrigo Oréfice	07-Polymer physics and characterization CHAIR: Daniela Becker	05-Blends, composites and polymer networks CHAIR: Elisângela Corradini	Technical session CHAIR: Marco Aurélio de Paoli
10:30 - 10:50	4DWJ - Influence of processing temperature on the color tonality of PVC compounds - Mara Zeni Andrade (IFRS)	4DQZ - 3D printed scaffolds composed of PLA-TCP- SiO ₂ and PLA-TCP-MgO for bone tissue engineering - Samarah Vargas Harb (UFSCar)	4DW6 - Study of mechanical and chemical properties stability of inner tubes exposed to gamma radiation - Sandra Regina Scagliusi Martin (USP)	4DW2 - Reinforcement of soy protein-Alginate-based materials through calcium chloride absorption - Estefanía Álvarez-Castillo (University of Seville - US)	4EEE - Do pellet à peça - A importância do bom processamento de polímeros! - Ricardo da Silva Souza (Reoterm)
10:50 - 11:10	4DWS - Cellulose-based biocomposites for additive manufacturing - Beatriz Sakamoto Arsuffi (UFABC)	4DSZ - Incorporation of electrospun nanofiber mats to improve mechanical properties of hydrogels based on methacryloyl gelatin - Catarina Paschoalini Lehman (UFMG)	4DWA - Introduction to foamability study of a LDPE subjected to gamma radiation - Elizabeth Carvalho Leite Cardoso (IPEN)	4DXV - Use of carbon black and rockwool based filler system in fluorelastomers - Carolina Moutinho Ferreira (UFRJ)	4EEF - Vantagens do SEC-MALS e FFF-MALS na caracterização avançada de Polímeros e Biopolímeros - Guilherme Nunes (Flowscience)
11:10 - 11:30	4E4A - Looking for a conductive polyaniline/acrylic formulation for DLP: printability versus electrical conductivity - Goretti Arias Ferreiro (Universidade da Coruña, Espanha)	4DS4 - Biodegradation behavior of PLA samples obtained by 3d printing and by compression molding - Adriana Martinelli Catelli Souza (FEI)	4DWR - Dressings produced from PVA nanofibers containing chloramphenicol - Gabriel Nardi Fraga (UNIOESTE)	4DY4 - Study of multi-scale phase separation and viscoelastic properties in a semi compatible resin blended elastomer system - Robins Kumar (University of Lyon - UNIV LYON)	4EEG - DMA de Alta Força – Principais Aplicações em Polímeros - HuguesBaurier Material Testing - Chefe de Vendas Internacionais – KCEN

11:30 - 11:50	4E4P - Injection overmolded polymer-metal hybrid structures - Leonardo Bresciani Canto (UFSCar)	4DXQ - Bioactivity evaluation of natural amorphous silica fibers/PEEK composite produced through micro-injection moulding for implant dentistry applications - Ana Paula Marzagão Casadei (UFSC)	4DYE - Formic acid acting as a stress cracking agent in polyamide 6 - Ermeson David dos Santos Silva (Universidade Federal do Cariri)	4DYK - Effect and active potential of jatobá (<i>hymenaea stigonocarpa</i>) pulp extract on sodium alginate film - Gisele Fernanda Alves da Silva (FURG)	4EEH - Uso do reômetroMCR 702e da Anton Paar para análises termodinâmico-mecânicas e reologia de pós - Jorge Maia (AntonPaar)
11:50 - 12:10	4E6M - Degradation´s study of commercial resins used in graphic inks - Ana Beatriz Silva de Oliveira (UEZO)	4DYP - Application of silver nanoparticles in biodegradable bamboo fiber for biomedical textile - Débora Kauanna Régis Da Luz (UFRN)	4E6E - Prediction of thermodynamic behavior and elasticity module for thermoplastic polyurethanes based on solubility parameter - Cristofor Portugal Oliveira da Silva (UFRGS)	4E4Q - Physical features of pine woods treated by in situ polymerization with three different monomers - Andrey Pereira Acosta (UFRGS)	4EEJ - Determinação das propriedades de tração ISO 527-2019 - Monique Naval Leite (ZwikRoell)
12:10 - 14:00	Lunch				

Afternoon Sessions

14:00 - PLENARY SESSION 7: Anthony Brennan - University of Florida (USA)
14:50 “Recent Advances In Antifouling Technologies”
 CHAIR: Rodrigo Oréfice

15:00 - PLENARY SESSION 8: Mohammad Arjmand – The University of British Columbia (Canada)
15:50 “Advanced Polymer-based Electromagnetic Shields”
 CHAIR: João Paulo Santos

15:50 - 16:00 **Break**

Session 01-	04-Polymer nanostructures and nanocomposites	05-Blends, composites and polymer networks	06-Polymerization reactions and polymer chemistry	08-Special polymer applications	
Environmental issues associated with polymers	CHAIR: Cristiane Finzi-Quintão	CHAIR: Rodrigo Oréfice	CHAIR: Claudio Gouvêa	CHAIR: Andre Luis Marcomini	
CHAIR: Antonio Felix Carvalho					
16:00 - 16:20	4DQK - Synthesis of thermoplastic starch aiming at improving your mechanical properties - Gilberto Sérgio da Silva Ramos Junior (UFPA)	4DVP - Thermal Characterization of PHBHV Nanocomposites - Maria Eduarda Araújo Ribeiro (UENF)	4E4R - Decay resistance of pine woods modified with three different treatments - Kelvin Techera Barbosa (UFPEL)	4DQF - STUDY OF THE SOLUBILITY OF NATURAL POLYMERS WITH DIFFERENT SOLVENTS - Michaella Fialho (UNB)	4DVB - CHARACTERIZATION OF MINERAL FILLERS FOR EPOXY RESINS - Letícia Andreolli Dias (Feevale)

Summary table of activities

16:20 - 16:40	4EEN - Edible scaffolds with tunable mechanics and topology for cultured meat - Amy Rowat (UCLA)	4DVZ - Effects of silica nanofibers and mmt clay on mechanical properties of polyamide 6: a comparative study - Ermeson David dos Santos Silva (UFCA)	4E64 - Influence of pH on the hygroscopicity of blends of gelatin and potato skin starch – Samara Dias Osorio (UFRGS)	4DTA - FULLY BIOBASED POLYMER FROM EPOXIDIZED CANOLA OIL AND POLY(LACTIC ACID) OLIGOMER - João Gabriel Passos Rodrigues (UFRJ)	4DWC - NEW MIXED MATRIX MEMBRANES MADE FROM POROUS ORGANIC POLYMERS FOR CO ₂ /N ₂ SEPARATION - Sandra Rico Martínez (University of Valladolid)
16:40 - 17:00	4DVM - Development of green composites of recycled polyethylene with the addition of cellulose obtained from cigarette filters - Maria Fernanda Romeu Lino de Souza (UNIFESP)	4DXB - Effects of test parameters on tribological and hardness properties of UHMWPE / reduced graphene oxide nanocomposites - Pedro Henrique Vilela Soares (CEFET)	4E6H - Development and testing of devices for conducting dynamic mode-i and mode-ii interlaminar fracture tests - Fernando Guimarães Vianna (UFCG)	4DTF - SYNTHESIS AND CHARACTERIZATION OF XANTHAN CARBOXYMETHYLATED GUM FOR LEAD ADSORPTION - Micaele Ferreira Lima (UECE)	4DWY - BIODEGRADABLE DEVICE BASED ON STARCH AND GRAPHITE (TPS-Gr) WITH POTENTIAL FOR APPLICATION IN ELECTROCHEMICAL SENSING - Amanda de Sousa Martinez de Freitas (UNIFESP)
17:00 - 18:30	POSTER PRESENTATION #2: 04 and 08				

Wednesday, October 27, 2021

Morning Sessions

8:30 - 9:20 - **PLENARY SESSION 9:** Silvia Bettini – UFSCar (Brazil)
 "Industrial citrus waste: an opportunity to obtain biodegradable and flexible compounds"
 CHAIR: Patrícia Patrício

9:30 - 10:20 - **PLENARY SESSION 10:** José Carlos Costa da Silva Pinto – UFRJ (Brazil)
 "The Paradigms of Sustainability and Circularity in the Commercial Polymer Chain: a Brazilian Opportunity (ABPol "Eloisa Mano" Award Winner)"
 CHAIR: Kátia Novack

10:20 - 10:30 - **Break**

Session	01- Environmental issues associated with polymers CHAIR: Derval dos Santos Rosa	04-Polymer nanostructures and nanocomposites CHAIR: Cristiane Finzi-Quintão	05-Blends, composites and polymer networks CHAIR: Lidiane Costa	06-Polymerization reactions and polymer chemistry CHAIR: Claudio Gouvêa	08-Special polymer applications CHAIR: Leonardo Canto
10:30 - 11:00	KEYNOTE: Maximilian Lackner (Austria)	KEYNOTE: Sabu Thomas (India) "Engineering at the Nanoscale: A Strategy for Developing High Performance Functional Materials".	KEYNOTE: Dr. Luyi Sun (EUA) "Bioinspired Surface Engineering for Mechanochromism and Thermal Management."	KEYNOTE: Filomena Barreiro (Portugal) "Microencapsulation: a world of possibilities."	KEYNOTE: Juliano Elvis Oliveira (Brazil) "Science and Engineering of Polymers Applied in Biological Systems" (Young Researcher Award Winner)
11:00 - 11:20	4DWN - Filtering membranes obtained from polyvinyl alcohol nanofibers (PVA) and chitosan by electrospinning - Camila Cassia Cordeiro (UNIOESTE)	4DXC - Influence of multi-layer graphene oxide distribution on the microstructure and mechanical properties of poly(ethylene terephthalate) nanocomposites - Gabriel Matheus Pinto (MACKENZIE)	4E6J - Development of a biaxial tensile device in the plane for monotonic mechanical tests and cruciform specimens - Fernando Guimaraes Vianna (UFCG)	4DTT - Kinetics and Mechanism of Lipase-Catalysed polycondensation of glycerol and sebacic acid - Giovanni Bortoloni Perin (UNICAMP)	4E6K - Nanocellulose composites of conductive polymers for application in electronic devices and electromagnetic shielding - Paula Nunes Santos (UFU)
11:20 - 11:40	4DYV - Application of Rice Husk as Filler in Polymeric Composites: Evaluation of the Influence of Particle Size - Michel Vinicius Flach (FEEVALE)	4DYD - Hybrid conductive gels used as flexible electrode - Joana de Barros Sacramento (UFABC)	4EAM - Effect of incorporation propolis extract in biopolymeric films based on pectin - Giuliana Thalina Franco (UFSCAR)	4E4T - Kinetic polymerization of castor oil polyurethanes by a rheological method and neural network - Joziel Aparecido da Cruz (UFRGS)	4DQN - Synthesis and characterization of polymeric membranes with the incorporation of adsorbent materials - Sirlei Marques Paschoal (UTFPR)

11:40 - 12:00	4DZM - Use of waste cottonseed oil in the synthesis of polyurethane coatings - Renata Costa Silva Araújo (UFMG)	4DYG - Effect of nanosilica, nanoclay or graphene oxide as reinforcing agents to EPDM rubber - Hugo Rafael Vallejo Angulo (USP)	4EBK - On the mode-I fracture toughness of filament wound curved laminates - Artur Altermann Pollet (UFRGS)	4EDF - Low molar mass polymethacrylates obtained by chemical recycling of artifacts post use acrylics - Ticiane Vieira de Paula Souza (UFPR)	4DQX - Polyelectrolyte-based ink with RGB EMISSION properties for safety tagging - Artur José Monteiro Valente (Universidade de Coimbra, Portugal)
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12:00 - 14:00 **Lunch**

Afternoon Sessions

14:00 - 14:50 **PLENARY SESSION 11:** Richard Weiss – Georgetown University (USA)
 “Complex Polymeric Materials Through Self-Assembly Initiated by Small Molecules: Reversible Gels, Ionomers, and Rubbery Polymers”
 CHAIR: Marco Aurelio De Paoli

15:00 - 15:50 **PLENARY SESSION 12:** Jaime C. Grunlan - Texas A&M University (USA)
 “Water-Based Multifunctional Nanocoatings from Polyelectrolyte Complexation: Opportunities & Challenges”
 CHAIR: Cesar Petzhold

15:50 - 16:00 **Break**

Session	02-Processing and printing of polymers CHAIR: Lidiane Costa	03-Biomedical applications of polymers CHAIR: Rodrigo Oréfice	07-Polymer physics and characterization CHAIR: Andre Luis Marcomini	01- Environmental issues associated with polymers CHAIR: Antonio Felix Carvalho	09- Innovation and management involving polymers and topics in education CHAIR: Daniela Becker
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16:00 - 16:20	4EBH - Optimization of the FFF 3d printing applied to metal casting tools using the Taguchi method - Ariangelo Hauer Dias Filho (ITA/UEPG)	4E2N - Hydrogels containing microparticles for Dual-Drug release - Fabiana Perrechil Bonsanto (UNIFESP)	4EAB - Kinetic study of the thermal decomposition of a nitrogen fertilizer coated with methylcellulose by the Ozawa isoconversional method - Marcos Vinícius Ferreira (UFU)	4E4V - Thermophysical and mechanical evaluation of blends based on recycled poly(ethylene terephthalate) - PET and poly(high density ethylene) – PEAD - Kássio André Lacerda (FUMEC)	4DNP - STUDY OF CONSUMER VISUAL EXPECTATION REGARDING PECTIN AND WPI FILMS - Ana Carolina Salgado Oliveira (UFPA)
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16:20 - 16:40	4EBQ - FRESH 3D Printing of Double Crosslinked Hyaluronic Acid/Pectin Hydrogels - Daniele Mayara Catori (UNICAMP)	4EBM - Functionalization of Poly(lactic acid) and Poly(ethylene glycol) for Application in Multicomponent Ugi Reaction - Joana de Souza von der Weid (UFRJ)	4EAJ - Evaluation of mechanical properties of mixtures of virgin and recycled high-density polyethylene - Victor Abdo Hallack (UFOP)	4E6T - Chitosan as a green polymeric inhibitor for mild steel: electrochemical behavior in sodium chloride medium - Lisete Cristine Scienza (UFRGS)	4EDA - Development of a Preliminary Process Design for the Installation of a Pilot Plant To Produce Superabsorbent Hydrogel Reinforced With Fertilizers (NPK) For Application In Rice Crop (Oryza Sativa L.) - Yduo Salvador Ataucusi (Universidad Nacional Mayor de San Marcos, Peru)
16:40 - 17:00	4EDC - Influence of Alcohol Based Nonsolvents On The Formation of Cellulose Acetate Monolith Prepared From Nonsolvent/Thermally Induced Phase Separation Process - Poliana Ricci (UFU)	4EBS - Thermal analysis and study of atorvastatin (ATV) release from polycaprolactone/ATV films - Yasmin dos Anjos Garcia (UFRRJ)	4DWM - Obtaining and characterizing electrospun polymer fibers from PBAT/PLA with TiO ₂ /Fe ₃ O ₄ - Alessandra Ruyz Medeiros (Universidade Estadual do Oeste do Paraná)	4EC6 - Comparative life cycle analysis of plastic and metallic fenders - Marcella Cristina Neves Alvarenga (STELLANTIS)	4EDH - Extraction and analysis of natural rubber from the latex of the fig tree, jackfruit, and polymer analysis of durian - Maximilian Lackner (FH Technikum Wien, Áustria)
17:00 - 18:30	POSTER PRESENTATION #3: 05, 07 and 09				

Thursday, October 28, 2021

Morning Sessions

8:30 - 9:20	PLENARY SESSION 13: Amin Shavandi - Université Libre Bruxelles (Belgium) “Restore and Regenerate Our Natural Resources: High-value Biobased Products for Biomaterials Applications” CHAIR: Denise Petri				
9:30 - 10:20	PLENARY SESSION 14: Jose Covas – Universidade do Minho (Portugal) “In-process characterization of polymer nanocomposites during extrusion” CHAIR: Kássio Lacerda				
10:20 - 10:30	Break				
10:30 - 11:20	PLENARY SESSION 15: Patrícia Patrício – CEFET/MG (Brazil) “Integrated technologies using polymers that contribute to the reduction of waste from different industrial sectors” CHAIR: Edvani Muniz				
Session	01-Environmental issues associated with polymers CHAIR: Carolina Morelli	04-Polymer nanostructures and nanocomposites CHAIR: Kássio Lacerda	05-Blends, composites and polymer networks CHAIR: Edvani Muniz	06-Polymerization reactions and polymer chemistry CHAIR: Daniela Becker	08-Special polymer applications CHAIR: Kátia Novack
11:20 - 11:40	4EBT - Assessing microplastic degradation using FTIR: what it can tell and what it can whisper? - Walter Ruggeri Waldman (UFSCAR)	4E6W - Crystallization kinetics of poly (lactic acid)/halloysite nanocomposites - Lidiane Cristina Costa (UFSCAR)	4ECV - Investigation of the reinforcing effect of organoclay Cloisite 15a on the recycled pet matrix by dynamic mechanical analysis - Luciana Ribeiro Honorato (CEDERJ)	4EAE - Synthesis and characterization of superabsorbent hydrogels based on starch and acrylic acid - María Verónica Carranza Oropeza (Universidad Nacional Mayor de San Marcos, Peru)	4DXK - Release of oregano essential oil in simulated food conditions from PHBV biodegradable films - Renata Cerruti da Costa (UFSC)
11:40 - 12:00	4EBW - Properties of spent coffee grounds filled polypropylene - Gustavo Luiz Bueno Cardoso (FEI)	4EBX - Laponite-based nanohydrogel as nanocarrier: delivery and the synergistic effect between cisplatin and 5-fluorouracil - Samile Bezerra de Aguiar (UNICAMP)	4ECW - Mechanical characterization of the polyurethane biocomposite obtained from mamona oil reinforced with banana fibers - Paulo Roberto Correia Marcelino (UFES)	4ECA - Simulation of the synthesis of carboxy-telechelic polystyrene by nitroxide mediated polymerization (NMP) - Inácio José Galego Cassimiro (UNICAMP)	4DY6 - Effect of syntheses parameters in isocyanate microencapsulation via solvent evaporation technique - Amanda Nascimento Braga Santo (UFABC)

12:00 - 12:20	4EBZ - Comparative life cycle analysis of polypropylene using eggshell to replace non-renewable mineral cargo applied to automotive components - Marcella Cristina Neves Alvarenga (STELLANTIS)	4ECC Photodegradation of PS/MoS2 nanocomposites with ultralow content of 2d filler - Aurianny L. Angulo (MACKENZIE)	- 4EDN Mechanical strength behavior of polypropylene composites with hybrid glass fibers and hollow microspheres - José Alexandrino Sousa (UFSCAR)	- 4E6C - Effect of chain extenders on the structure and properties of polyurethanes - Otávio Bianchi (UFRGS)	4DYA - Porous Biodegradable Biomaterials Loaded with Melaleuca Oil and Curcuminoids for the Control of Aedes Aegypti - Glucia Regina Medeiros Burin (UFPR)
12:20 - 14:00	Closing Ceremony – Students Award Ceremony – ABPol convention				
16:00	Editorial Council Meeting of the journal Polímeros: Ciência e Tecnologia				

Plenaries

PLN-01 – 25/10

08:30 - 09:20

Speaker: Alejandro J. Müller

University of the Basque Country, UPV/EHU (Spain)

Title: Application of the SSA thermal fractionation technique to thermoplastic polyurethanes and recycled polyolefin blends

Chair: Claudio Gouvêa dos Santos



PLN-02 – 25/10

09:30 - 10:20

Speaker: Denise Freitas Siqueira Petri

USP (Brazil)

Title: Polysaccharides as platforms for new functional materials

Chair: Cristiane Medina Finzi-Quintão



PLN-03 – 25/10

14:00 - 14:50

Speaker: Uli Wiesner

Cornell University (USA)

Title: Polymer Self-Assembly based Functional Materials

Chair: Rodrigo Lambert Oréfica



PLN-04 – 25/10

15:00 - 15:50

Speaker: Sadhan C. Jana

University of Akron (USA)

Title: Design of Polymer-Derived Nanoparticles, Nanorods And Porous Microparticles

Chair: João Santos



PLN-05 – 26/10

08:30 - 09:20

Speaker: André Studart

ETH Zürich (Switzerland)

Title: 3D Printing of Polymers into Biologically-Inspired Structures

Chair: Daniel Pasquini



PLN-06 – 26/10

09:30 - 10:20

Speaker: Rosario Elida Suman Bretas*UFSCar (Brazil)***Title: Electrospinning: An old technique for new applications***Chair: Katia Monteiro Novack*

PLN-07 – 26/10

14:00 - 14:50

Speaker: Anthony B. Brennan*University of Florida (USA)***Title: Recent Advances In Antifouling Technologies***Chair: Rodrigo Lambert Oréfice*

PLN-08 – 26/10

15:00 - 15:50

Speaker: Mohammad Arjmand*University of British Columbia (Canada)***Title: Advanced Polymer-based Electromagnetic Shields***Chair: João Santos*

PLN-09 – 27/10

08:30 - 09:20

Speaker: Sílvia Helena Prado Bettini*UFSCar (Brazil)***Title: Industrial citrus waste: an opportunity to obtain biodegradable and flexible compounds***Chair: Patrícia Santiago de Oliveira Patrício*

PLN-10 – 27/10

09:30 - 10:20

Speaker: José Carlos Costa da Silva Pinto*UFRJ (Brazil)***Title: The Paradigms of Sustainability and Circularity in the Commercial Polymer Chain: a Brazilian Opportunity (ABPol “Eloisa Mano” Award Winner)***Chair: Katia Monteiro Novack*

PLN-11 – 27/10

14:00 - 14:50

Speaker: Richard G. Weiss*Georgetown University (USA)***Title: Complex Polymeric Materials Through Self-Assembly Initiated by Small Molecules: Reversible Gels, Ionomers, and Rubbery Polymers***Chair: Marco Aurelio De Paoli*

PLN-12 – 27/10

15:00 - 15:50

Speaker: Jaime C. Grunlan

Texas A&M University (USA)

Title: Water-Based Multifunctional Nanocoatings from Polyelectrolyte Complexation: Opportunities & Challenges

Chair: Cesar Liberato Petzhold



PLN-13 – 28/10

08:30 - 09:20

Speaker: Amin Shavandi

Université Libre Bruxelles (Belgium)

Title: Water-Based Multifunctional Nanocoatings from Polyelectrolyte Complexation: Opportunities & Challenges

Chair: Denise Freitas Siqueira Petri



PLN-14 – 28/10

09:30 - 10:20

Speaker: José António Colaço Gomes Covas

University of Minho (Portugal)

Title: In-process characterization of polymer nanocomposites during extrusion

Chair: Kássio André Lacerda



PLN-15 – 28/10

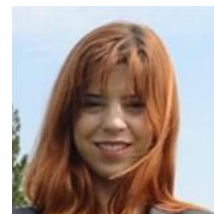
10:30 - 11:20

Speaker: Patrícia Santiago de Oliveira Patrício

Cefet-MG (Brazil)

Title: Integrated technologies using polymers that contribute to the reduction of waste from different industrial sectors

Chair: Edvani Curti Muniz



ORAL PRESENTATIONS

SUNDAY, OCTOBER 24

SESSION CAM (19:30 - 21:00) - - ROOM 1

19:30 **CAM.1**

OPENING CEREMONY, AWARDS AND CULTURAL EVENT

Katia Monteiro Novack¹; ¹*Universidade Federal de Ouro Preto*

MONDAY, OCTOBER 25

SESSION PS_1 (08:30 - 09:20) - Polymer physics and characterization - ROOM 1

08:30 **PS_1.1**

APPLICATION OF THE SSA THERMAL FRACTIONATION TECHNIQUE TO THERMOPLASTIC POLYURETHANES AND RECYCLED POLYOLEFIN BLENDS

Alejandro J. Müller¹; ¹*University of the Basque Country*

SESSION PS_2 (09:30 - 10:20) - Biomedical applications of polymers - ROOM 6

09:30 **PS_2.1**

POLYSACCHARIDES AS PLATFORMS FOR NEW FUNCTIONAL MATERIALS

Denise Freitas Siqueira Petri¹; ¹*Universidade de São Paulo*

SESSION 25M_01 (10:30 - 12:10) - Environmental issues associated with polymers - ROOM 1

10:30 **25M_01.1**

THERMOPLASTIC STARCH - UREA, A FEASIBLE ALTERNATIVE IN ORDER TO STORAGE NITROGEN AS FERTILIZER

Daniel de Souza Gamarano¹, Iaci Miranda Pereira², Artur Caron Mottin³, Eliane Ayres¹; ¹*Universidade do Estado de Minas Gerais*, ²*CENTRO TECNOLÓGICO DO EXÉRCITO*, ³*Centro Federal de Educação Tecnológica de Minas Gerais*

10:50 **25M_01.2**

INFLUENCE OF THE INCORPORATION OF CRYSTAL POLYSTYRENE IN EXPANDED POLYSTYRENE MICROFIBERS IN THE REMOVAL OF OIL IN EMULSION

Laura Valácio de Carvalho¹, Juliano Elvis Oliveira¹; ¹*Universidade Federal de Lavras*

11:10 **25M_01.3**

PHOTOPOLYMERIZATION OF LIMONENE

Edison Rogério Marques de Oliveira¹, Roniérik Pioli Vieira¹; ¹*Universidade Estadual de Campinas*

11:30 **25M_01.4**

POLYPROPYLENE COMPOSITE REINFORCED WITH UNSMOKED CIGARETTE BUTTS: INFLUENCE OF HYDROGEN PEROXIDE FIBER TREATMENT ON FLEXURAL PROPERTIES

Ivan Moroz¹, Milena Chanes de Souza¹, Giovana Roberta Francisco Bronzato¹, Lucas Brito¹, Murilo G. Zanzini¹, Ivana Cesarino¹, Alcides Lopes Leão¹; ¹*Universidade Estadual Paulista*

11:50 **25M_01.5**

BIODEGRADATION AND RELEASE CORRELATIONS IN SOIL/WATER MEDIUM OF THE POLYMER-FERTILIZER-BASED SYSTEM

Luciana Moretti Angelo¹, Débora França², Roselena Faez¹; ¹*Universidade Federal de São Carlos - Campus Araras*, ²*Universidade de São Paulo*

SESSION 25M_04 (10:30 - 12:10) - Polymer nanostructures and nanocomposites - ROOM 2

10:30 **25M_04.1**

EVALUATION OF SHAPE MEMORY IN PLA/TPU FILAMENTS WITH CARBON NANOTUBES AND GRAPHENE NANOPATELETS

Nayara Koba de Moura¹, Guilherme Ferreira de Melo Morgado¹, Eduardo Ferreira Martins¹, Camila Alves Escanio², Fábio Roberto Passador¹; ¹*Universidade Federal de São Paulo*, ²*Instituto Nacional de Pesquisas Espaciais*

10:50 **25M_04.2**

EVALUATION OF THE MECHANICAL AND ELECTROMAGNETIC SHIELDING PROPERTIES PC/ABS BLENDS-BASED GRAPHENE NANOPATES NANOCOMPOSITES

Erick Gabriel Ribeiro dos Anjos¹, Newton Adriano dos Santos Gomes¹, Juliano Marini², Fábio Roberto Passador¹; ¹*Universidade Federal de São Paulo*, ²*Univerdade Federal de São Carlos*

11:10 **25M_04.3**

IMPROVING THE DISPERSION OF MWCNT IN PP USING CONTROLLED EXTENSION FLOWS IN EXTRUSION PROCESSING

Marcel Andrey de Goes¹, João Santos², Benjamim Melo Carvalho¹; ¹*Universidade Estadual de Ponta Grossa*, ²*Centro Federal de Educação Tecnológica de Minas Gerais*

11:30 **25M_04.4**

EVALUATION OF ANTIMICROBIAL ACTIVITY OF PLA POROUS MEMBRANES CONTAINING BG45S5 AND MWCNT

Nayara Koba de Moura¹, Eduardo Ferreira Martins¹, Rodrigo Luiz Moraes Saldanha Oliveira¹, João Paulo Barros Machado², Idália Aparecida Waltrick de Brito Siqueira¹, Elisa Esposito¹, Fábio Roberto Passador¹, Eliandra de Sousa Trichês¹; ¹*Universidade Federal de São Paulo*, ²*Instituto Nacional de Pesquisas Espaciais*

11:50 **25M_04.5**

BIOSYNTHESIS OF SILVER NANOPARTICLES USING ONION EXTRACT

Letícia Maria de Oliveira^{1,2}, Hernane da Silva Barud¹, Diógenes dos Santos Dias³; ¹*Centro Universitário de Araraquara*, ²*Fundação Universidade Federal do Vale do São Francisco*, ³*Universidade Estadual Paulista*

SESSION 25M_05 (10:30 - 12:10) - Blends, composites and polymer networks - ROOM 3

10:30 **25M_05.1**

POLYPINENE AND CHITOSAN BLENDS FOR FUNCTIONAL BIO-BASED FILM PRODUCTION

Plínio Ribeiro Rodrigues¹, Luís Marangoni Júnior¹, Rosa Maria Vercelino Alves², Roniérik Pioli Vieira¹; ¹Universidade Estadual de Campinas, ²Instituto de Tecnologia de Alimentos

10:50 **25M_05.2**

TRANSPARENT WOOD COMPOSITES FABRICATED BY IMPREGNATION OF EPOXY RESIN INTO JUPATI PETIOLE (RAPHIA TAEDIGERA)

Lauro Arthur Farias Paiva Cohen¹, Elisa Batista Conrado Martins¹, MERCES COELHO DA SILVA², Eliane Ayres¹; ¹Universidade do Estado de Minas Gerais, ²Universidade Federal de Itajubá

11:10 **25M_05.3**

EFFECT OF ADDITION OF GLASSY CARBON AND GRAPHENE NANOPATELETS ON MECHANICAL PROPERTIES OF POLY (ACID LACTIC)/POLY (3-HYDROXYVALERATE-CO-3-HYDROXYVALERATE) BLEND

Isabela Cesar Oyama¹, Gabriel Portilho Monteiro de Souza¹, Erick Gabriel Ribeiro dos Anjos^{1,2}, Guilherme Ferreira de Melo Morgado¹, Fábio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Univerdade Federal de São Carlos

11:30 **25M_05.4**

COMPARISON STUDY OF CALCINED KAOLIN UNTREATED AND TREATED WITH SILANE FOR POLYAMIDE 6,6

Felipe Fantatho¹, Gabriele Polezi², Flavia Lima Souza²; ¹Imerys Campinas, ²Imerys

11:50 **25M_05.5**

STUDY OF O₂ TRANSMISSION RATE IN BIIR RUBBER COMPOUND FOR DIFFERENT ASPECT RATIO AND PARTICLE SIZE KAOLINS

Felipe Fantatho¹, Flavia Lima Souza², Gabriele Polezi²; ¹Imerys Campinas, ²Imerys

SESSION 25M_06 (10:30 - 12:10) - Polymerization reactions and polymer chemistry - ROOM 4

10:30 **25M_06.1**

THE INFLUENCE OF CURING AGENT RATIO ON EPOXY RESIN BY USING FTIR SPECTROSCOPY

Lincoln Araujo Teixeira¹, Vilson Dalla Libera Junior¹, Sandra Luz¹; ¹Universidade de Brasília

10:50 **25M_06.2**

PHOTO-OMRP OF BUTYL ACRYLATE USING NEW NI(II) COMPLEXES COORDINATED TO NON-SYMMETRIC AND SYMMETRIC SCHIFF BASES

Naralyne Martins Pesqueira¹, Camila Bignardi¹, Larissa Fazoni de Oliveira¹, Valdemiro Pereira de Carvalho Júnior¹, Beatriz Eleutério Goi¹; ¹Universidade Estadual Paulista "Júlio de Mesquita Filho"- Faculdade de Ciências e Tecnologia

11:10 **25M_06.3**

ORGANOCATALYZED ATOM TRANSFER RADICAL POLYMERIZATION OF B-PINENE: SYNTHESIS AND CHARACTERIZATION

Plínio Ribeiro Rodrigues¹, Sayeny de Ávila Gonçalves¹, Roniérik Pioli Vieira¹; ¹Universidade Estadual de Campinas

11:30 **25M_06.4**

PHOTOCHEMICAL NITRIC OXIDE RELEASE FROM S-NITROSOTHIOL-FUNCTIONALIZED CHITOSAN

Herllan Vieira de Almeida¹, Daniele Mayara Catori¹, Laura Caetano Escobar da Silva¹, Marcelo Ganzarolli De Oliveira¹; ¹*Universidade Estadual de Campinas*

11:50 **25M_06.5**

A GREEN APPROACH TO OBTAIN CROSSLINKED STARCH THROUGH REACTION WITH TARTARIC ACID BY REACTIVE EXTRUSION

Beatriz Marjorie Marim¹, Jéssica Fernanda Pereira¹, Suzana Mali¹; ¹*Universidade estadual de Londrina*

SESSION 25M_08 (10:30 - 12:10) - Special polymer applications - ROOM 5

10:30 **25M_08.1**

DESIGN OF EXPERIMENTS AND REGRESSION ANALYSIS FOR A COMPOSITIONAL STUDY OF EVA FOAMS

Murilo Lauer Sanson¹, Nei Sebastião Domingues Junior¹, Daniela Eduarda Schneider¹, Juliani Cappra da Silva¹; ¹*Braskem S.A.*

10:50 **25M_08.2**

EVALUATION OF PEDOT:PSS HYBRID CAPACITOR WITH TITANIUM AND ALUMINUM COMPOSITE DIELECTRIC

Paola Dornel da Silva¹, Alvaro Meneguzzi¹; ¹*Universidade Federal do Rio Grande do Sul*

11:10 **25M_08.3**

THE FUNCTIONALIZATION OF CARBOHYDRATE POLYMERS WITH B-CYCLODEXTRIN ENHANCES BINDING OF MONOPHENOLS

Roberto Aguado Garcia¹, Dina Murtinho¹, Artur José Monteiro Valente¹; ¹*Universidade de Coimbra*

11:30 **25M_08.4**

BIOBASED-MATRICES FOR NUTRIENTS SUSTAINABLE COATINGS

Débora França¹, Luciana Moretti Angelo², Claudinei Fonseca Souza², Roselena Faez²; ¹*Universidade de São Paulo*, ²*Universidade Federal de São Carlos - Campus Araras*

11:50 **25M_08.5**

APPLICABILITY OF POLYMERIC MEMBRANES IN THE BIODIESEL SEPARATION AND PURIFICATION

Sirlei Marques Paschoal¹, Fernanda Lini Seixas¹, Leila Denise Fiorentin Ferrari², Juliana Guerra Sgorlon¹, Maria Carolina Sérgio Gomes¹; ¹*Universidade Tecnológica Federal do Paraná*, ²*Universidade Estadual do Oeste do Paraná*

SESSION PS_3 (14:00 - 14:50) - Polymer nanostructures and nanocomposites - ROOM 1

14:00 **PS_3.1**

POLYMER SELF-ASSEMBLY BASED FUNCTIONAL MATERIALS

Uli Wiesner¹; ¹*Cornell University*

SESSION PS_4 (15:00 - 15:50) - Polymer nanostructures and nanocomposites - ROOM 515:00 **PS_4.1****DESIGN OF POLYMER-DERIVED NANOPARTICLES, NANORODS AND POROUS MICROPARTICLES**Sadhan C. Jana¹; ¹*University of Akron***SESSION 25A_04 (16:00 - 17:00) - Polymer nanostructures and nanocomposites - ROOM 1**16:00 **25A_04.1****SYNTHESIS AND CHARACTERIZATION OF HEPTAKIS-AMINOCYCLODEXTRIN NANOSPONGES**Gianluca Utzeri¹, Dina Murtinho¹, Artur José Monteiro Valente¹; ¹*Universidade de Coimbra*16:20 **25A_04.2****SYNERGISTIC EFFECT OF ADDING GRAPHENE NANOPATES AND CARBON NANOTUBES IN PC/ABS BLENDS**Erick Gabriel Ribeiro dos Anjos^{1,2}, Newton Adriano dos Santos Gomes¹, Andreza de Moura Cardoso³, Fábio Roberto Passador¹; ¹*Universidade Federal de São Paulo*, ²*Univerdade Federal de São Carlos*, ³*Instituto de Aeronáutica e Espaço*16:40 **25A_04.3****SYNTHESIS OF CHITOSAN-BASED QUANTUM DOTS: AN ANALYSIS OF THE SYNTHESIS PARAMETERS**Bruno Peixoto de Oliveira¹, Nathália Uchôa de Castro Bessa¹, Joice Farias do Nascimento¹, Flávia Oliveira Monteiro da Silva Abreu¹; ¹*Universidade Estadual do Ceará***SESSION 25A_02 (16:00 - 17:00) - Processing and printing of polymers - ROOM 2**16:00 **25A_02.1****INFLUENCE OF DIFFERENT KNEADING BLOCKS ELEMENTS ON POLYMER MIXTURE DISPERSION DURING TWIN-SCREW EXTRUSION**Felipe Oliveira Campos Bernardo¹, Sebastião Vicente Canevarolo Jr.¹, José António Colaço Gomes Covas²; ¹*Univerdade Federal de São Carlos*, ²*Universidade do Minho*16:20 **25A_02.2****IMPROVING THE DISPERSION OF GRAPHITE IN PP USING CONTROLLED EXTENSION FLOWS IN EXTRUSION PROCESSING**Marcel Andrey de Goes¹, João Santos², Benjamim Melo Carvalho¹; ¹*Universidade Estadual de Ponta Grossa*, ²*Centro Federal de Educação Tecnológica de Minas Gerais*16:40 **25A_02.3****FEASIBILITY OF USING POLYMER BLENDED FILAMENTS FOR FUSED DEPOSITION MODELING 3D PRINTING**Kasitpong Thanawuth¹; ¹*Silpakorn University*

SESSION 25A_03 (16:00 - 17:00) - Biomedical applications of polymers - ROOM 3

16:00 **25A_03.1**

WEARABLE DEVICE BASED ON ELECTROSPUN GELATIN/POLYCAPROLACTONE NANOFIBERS LOADED WITH DICLOFENAC POTASSIUM AIMING A POTENTIAL ANTI-INFLAMMATORY ACTION

Gabriella Onila do Nascimento Soares¹, Flávia Alves Lima¹, Gisele Assis Castro Goulart¹, Rodrigo Lambert Oréfica¹; ¹*Universidade Federal de Minas Gerais*

16:20 **25A_03.2**

EVALUATION OF THE DISSOLUTION PROFILE AND TRYPANOCIDAL ACTIVITY OF BENZNIDAZOLE INCORPORATED IN PEG 4000 AND ITS DERIVATIVES

Lucas Resende Dutra Sousa¹, Dayana Ferreira Rocha¹, Tatiane Roquete Amparo¹, Orlando David Henrique dos Santos¹, Janaína Brandão Seibert², Luciano Rodrigues Pereira², Paula Melo de Abreu Vieira¹, Cláudia Martins Carneiro¹, Policarpo Ademar Sales Júnior³, Silvane Maria Fonseca Murta³, Katia Monteiro Novack¹, Viviane Martins Rebello dos Santos¹; ¹*Universidade Federal de Ouro Preto*, ²*Univerdade Federal de São Carlos*, ³*Fundação Oswaldo Cruz*

16:40 **25A_03.3**

ORODISPERSIBLE FILMS CONTAINING CHLORHEXIDINE DIGLUCONATE: PHYSICAL CHARACTERIZATION AND MICROBIOLOGICAL *IN VITRO* ANALYSIS

Geanne Aparecida de Paula¹, Renato Almeida Brambati¹, Alice Cristina Morgado Cassa¹, Kamila Arêas Bastos¹, Juliana Alves Resende¹, Janaina Cecília Oliveira Villanova¹; ¹*Universidade Federal do Espírito Santo*

SESSION 25A_07 (16:00 - 17:00) - Polymer physics and characterization - ROOM 4

16:00 **25A_07.1**

DYNAMIC WETTING BEHAVIOR OF HDPE AND PA 12 IN CONTACT WITH WATER

Ayrton Alef Castanheira Pereira¹, Yoná Basilio Zanirath², José Roberto Moraes d'Almeida^{1,2}; ¹*Pontifícia Universidade Católica do Rio de Janeiro*, ²*Universidade do Estado do Rio de Janeiro*

16:20 **25A_07.2**

EVALUATION OF THE DEGRADATION PROCESS OF POLYETHYLENE BY DILUTE SOLUTION VISCOSITY

João Augusto Osório Brandão¹, Edson Francisquetti², Ruth Marlene Campomanes Santana¹; ¹*Universidade Federal do Rio Grande do Sul*, ²*Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul*

16:40 **25A_07.3**

FULLY AUTOMATED INSTRUMENT FOR SOLUTION VISCOSITY IN POLYMERIC MATERIALS

Pilar del Hierro¹, Olivier Boyron², Alberto Ortín Sebastián¹; ¹*Polymer Char*, ²*Université de Lyon*

TUESDAY, OCTOBER 26

SESSION PS_5 (08:30 - 09:20) - Processing and printing of polymers - ROOM 1

08:30 **PS_5.1**

3D PRINTING OF POLYMERS INTO BIOLOGICALLY-INSPIRED STRUCTURES

André Studart¹; ¹*Swiss Federal Institute of Technology / Eidgenössische Technische Hochschule ETH Zürich*

SESSION PS_6 (09:30 - 10:20) - Processing and printing of polymers - ROOM 509:30 **PS_6.1****ELECTROSPINNING: AN OLD TECHNIQUE FOR NEW APPLICATIONS**Rosario Elida Suman Bretas¹; ¹*Univerdade Federal de São Carlos***SESSION 26M-05 (10:30 - 12:10) - Blends, composites and polymer networks - ROOM 1**10:30 **26M-05.1****REINFORCEMENT OF SOY PROTEIN-ALGINATE-BASED MATERIALS THROUGH CALCIUM CHLORIDE ABSORPTION**Estefanía Álvarez-Castillo¹; ¹*University of Seville*10:50 **26M-05.2****USE OF CARBON BLACK AND ROCKWOOL BASED FILLER SYSTEM IN FLUORELASTOMERS**Carolina Moutinho Ferreira¹, Leila Lea Yuan Visconte¹, Cristiane Xavier da Silva Campos², Thiago Castro Lopes¹, Ana Maria Furtado de Sousa³, Ana Lúcia Nazareth da Silva⁴; ¹*Instituto de Macromoléculas Professora Eloísa Mano*, ²*Centro de Pesquisas Leopoldo Américo Miguez de Mello*, ³*Universidade do Estado do Rio de Janeiro*, ⁴*Universidade Federal do Rio de Janeiro*11:10 **26M-05.3****STUDY OF MULTI-SCALE PHASE SEPARATION AND VISCOELASTIC PROPERTIES IN A SEMI COMPATIBLE RESIN BLENDED ELASTOMER SYSTEM**Robins Kumar^{1,2}, Laurent Chazeau^{1,3,4}, Florent Dalmas^{1,3,4}, Nicolas Malicki², Catherine Gauthier², Regis Schach²; ¹*Institut National des Sciences Appliquées de Lyon*, ²*Manufacture française des pneumatiques MICHELIN, Clermont-Ferrand*, ³*University of Lyon*, ⁴*Centre national de la recherche scientifique*11:30 **26M-05.4****EFFECT AND ACTIVE POTENTIAL OF JATOBÁ (*HYMENAEA STIGONOCARPA*) PULP EXTRACT ON SODIUM ALGINATE FILM**Gisele Fernanda Alves da Silva¹, Viviane Patrícia Romani², Vilásia Guimarães Martins¹; ¹*Universidade Federal do Rio Grande*, ²*Universidade Estadual do Centro Oeste*11:50 **26M-05.5****PHYSICAL FEATURES OF PINE WOODS TREATED BY IN SITU POLYMERIZATION WITH THREE DIFFERENT MONOMERS**Andrey Pereira Acosta¹, Kelvin Techera Barbosa², André Luiz Missio², Rafael Beltrame², Rafael de Avila Delucis², Darci Alberto Gatto²; ¹*Universidade Federal do Rio Grande do Sul*, ²*Universidade Federal de Pelotas***SESSION 26M_02 (10:30 - 12:10) - Processing and printing of polymers - ROOM 2**10:30 **26M_02.1****INFLUENCE OF PROCESSING TEMPERATURE ON THE COLOR TONALITY OF PVC COMPOUNDS**Mara Zeni Andrade^{1,2}, Marcio R.C.Silveira¹, Ana Maria Coulon Grisa³, Edson Francisquetti¹, Rosmari N.Brandalise³; ¹*Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul*, ²*Instituto Federal de educação ciência e tecnologia*, ³*Universidade de Caxias do Sul*

10:50 **26M_02.2**

CELLULOSE-BASED BIOCOMPOSITES FOR ADDITIVE MANUFACTURING

Beatriz Sakamoto Arsuffi¹, Silvia Titotto¹; ¹*Universidade Federal do ABC*

11:10 **26M_02.3**

LOOKING FOR A CONDUCTIVE POLYANILINE/ACRYLIC FORMULATION FOR DLP: PRINTABILITY VERSUS ELECTRICAL CONDUCTIVITY

Goretti Arias Ferreira¹; ¹*Universidade da Coruña*

11:30 **26M_02.4**

INJECTION OVERMOLDED POLYMER-METAL HYBRID STRUCTURES

Leonardo Bresciani Canto¹, Gean Henrique Marcatto de Oliveira¹, Sergio de Traglia Amancio-Filho²; ¹*Univerdade Federal de São Carlos*, ²*Graz University of Technology*

11:50 **26M_02.5**

DEGRADATION'S STUDY OF COMMERCIAL RESINS USED IN GRAPHIC INKS

Ana Beatriz Silva de Oliveira¹, Alex da Silva Sirqueira¹, Jonathan da Silva Santana¹, Patricia Reis Pinto¹; ¹*Centro Universitário Estadual da Zona Oeste*

SESSION 26M_03 (10:30 - 12:10) - Biomedical applications of polymers - ROOM 3

10:30 **26M_03.1**

3D PRINTED SCAFFOLDS COMPOSED OF PLA-TCP- SiO₂ AND PLA-TCP- MGO FOR BONE TISSUE ENGINEERING

Samarah Vargas Harb¹, Cesar Augusto Gonçalves Beatrice¹, Eduardo Henrique Backes¹, Lidiane Cristina Costa¹, Luiz Antonio Pessan¹; ¹*Univerdade Federal de São Carlos*

10:50 **26M_03.2**

INCORPORATION OF ELECTROSPUN NANOFIBER MATS TO IMPROVE MECHANICAL PROPERTIES OF HYDROGELS BASED ON METHACRYLOYL GELATIN

Catarina Paschoalini Lehman¹, Sarah Oliveira Lamas de Souza¹, Sérgio Mendes de Oliveira¹, Luciana Maria Silva², Rodrigo Lambert Oréface¹; ¹*Universidade Federal de Minas Gerais*, ²*Fundação Ezequiel Dias*

11:10 **26M_03.3**

BIODEGRADATION BEHAVIOR OF PLA SAMPLES OBTAINED BY 3D PRINTING AND BY COMPRESSION MOLDING

Graziela Lisboa Gonzaga¹, Adriana Martinelli Catelli Souza¹, Alex Sandro Babetto¹; ¹*Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros*

11:30 **26M_03.4**

BIOACTIVITY EVALUATION OF NATURAL AMORPHOUS SILICA FIBERS/PEEK COMPOSITE PRODUCED THROUGH MICRO-INJECTION MOULDING FOR IMPLANT DENTISTRY APPLICATIONS

Ana Paula Marzagão Casadei¹, Renata Scheeren Brum¹, Douglas Fabris¹, Marcio Celso Fredel¹, Antonio Pedro Novaes de Oliveira¹, César Augusto Magalhães Benfatti¹, Claudia A. M. Volpato¹; ¹*Universidade Federal de Santa Catarina*

SESSION 26M_07 (10:30 - 12:10) - Polymer physics and characterization - ROOM 410:30 **26M_07.1****STUDY OF MECHANICAL AND CHEMICAL PROPERTIES STABILITY OF INNER TUBES EXPOSED TO GAMMA RADIATION**Sandra Regina Scagliusi Martin¹, Elizabeth Carvalho Leite Cardoso², Fabio José Esper¹, Ademar Benévolo Lugão², Hélio Wiebeck¹; ¹Universidade de São Paulo, ²Instituto de Pesquisas Energéticas e Nucleares10:50 **26M_07.2****INTRODUCTION TO FOAMABILITY STUDY OF A LDPE SUBJECTED TO GAMMA RADIATION**Elizabeth Carvalho Leite Cardoso¹, Sandra Regina Scagliusi Martin², Duclerc Fernandes Parra¹, Ademar Benévolo Lugão¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade de São Paulo11:10 **26M_07.3****DRESSINGS PRODUCED FROM PVA NANOFIBERS CONTAINING CHLORAMPHENICOL**Gabriel Nardi Fraga¹, Alessandra Ruyz Medeiros¹, Douglas Cardoso Dragunski¹; ¹Universidade Estadual do Oeste do Paraná11:30 **26M_07.4****FORMIC ACID ACTING AS A STRESS CRACKING AGENT IN POLYAMIDE 6**Rafael Ramos de Melo¹, Ermeson David dos Santos Silva¹, Edvânia Trajano Teófilo¹; ¹Universidade Federal do Cariri11:50 **26M_07.5****PREDICTION OF THERMODYNAMIC BEHAVIOR AND ELASTICITY MODULE FOR THERMOPLASTIC POLYURETHANES BASED ON SOLUBILITY PARAMETER**Lucas Paim da Silva¹, Cristofor Portugal Oliveira da Silva¹, Lucas Dall Agno², Otávio Bianchi¹; ¹Universidade Federal do Rio Grande do Sul, ²Universidade de Caxias do Sul**SESSION TS_2 (10:30 - 12:30) - Innovation and management involving polymers and topics in education - ROOM 6**10:30 **TS_2.1****DO PELLET À PEÇA - A IMPORTÂNCIA DO BOM PROCESSAMENTO DE POLÍMEROS!**Ricardo da Silva Souza¹; ¹Reoterm10:50 **TS_2.2****VANTAGENS DO SEC-MALS E FFF-MALS NA CARACTERIZAÇÃO AVANÇADA DE POLÍMEROS E BIOPOLÍMEROS**Guilherme Nunes¹; ¹Flowscience11:30 **TS_2.3****USO DO REÔMETRO MCR 702E DA ANTON PAAR PARA ANÁLISES TERMODINÂMICO-MECÂNICAS E REOLOGIA DE PÓS**Jorge Maia¹; ¹Anton Paar11:50 **TS_2.4****DETERMINAÇÃO DAS PROPRIEDADES DE TRAÇÃO ISO 527-2019**Monique Naval¹; ¹ZwickRoell Ltda

SESSION PS_7 (14:00 - 14:50) - Special polymer applications - ROOM 1

14:00 **PS_7.1**

RECENT ADVANCES IN ANTIFOULING TECHNOLOGIES

Anthony B. Brennan¹; ¹*University of Florida*

SESSION PS_8 (15:00 - 15:50) - Special polymer applications - ROOM 6

15:00 **PS_8.1**

ADVANCED POLYMER-BASED ELECTROMAGNETIC SHIELDS

Mohammad Arjmand¹; ¹*University of British Columbia*

SESSION 26A_04 (16:00 - 17:00) - Polymer nanostructures and nanocomposites - ROOM 1

16:00 **26A_04.1**

THERMAL CHARACTERIZATION OF PHBV NANOCOMPOSITES

Maria Eduarda Araújo Ribeiro¹, Rubén Sánchez Rodríguez¹; ¹*Universidade Estadual do Norte Fluminense Darcy Ribeiro*

16:20 **26A_04.2**

EFFECTS OF SILICA NANOFIBERS AND MMT CLAY ON MECHANICAL PROPERTIES OF POLYAMIDE 6: A COMPARATIVE STUDY

Gabriel Lucena de Oliveira¹, Radamés da Silva Teixeira¹, Ermeson David dos Santos Silva¹, Rosiane Maria da Costa Farias², Edvânia Trajano Teófilo¹; ¹*Universidade Federal do Cariri*, ²*Universidade Federal de Campina Grande*

16:40 **26A_04.3**

EFFECTS OF TEST PARAMETERS ON TRIBOLOGICAL AND HARDNESS PROPERTIES OF UHMWPE / REDUCED GRAPHENE OXIDE NANOCOMPOSITES

Pedro Henrique Vilela Soares¹, Leice Gonçalves Amurin², Aline Bruna da Silva¹; ¹*Centro Federal de Educação Tecnológica de Minas Gerais*, ²*Universidade Federal de Minas Gerais*

SESSION 26A_05 (16:00 - 17:00) - Blends, composites and polymer networks - ROOM 2

16:00 **26A_05.1**

DECAY RESISTANCE OF PINE WOODS MODIFIED WITH THREE DIFFERENT TREATMENTS

Kelvin Techera Barbosa¹, Andrey Pereira Acosta², Rafael Beltrame¹, André Luiz Missio¹, Rafael de Avila Delucis¹, Darci Alberto Gatto¹; ¹*Universidade Federal de Pelotas*, ²*Universidade Federal do Rio Grande do Sul*

16:20 **26A_05.2**

INFLUENCE OF PH ON THE HYGROSCOPICITY OF BLENDS OF GELATIN AND POTATO SKIN STARCH

Samara Dias Osorio¹, Ruth Marlene Campomanes Santana¹; ¹*Universidade Federal do Rio Grande do Sul*

16:40 **26A_05.3****DEVELOPMENT AND TESTING OF DEVICES FOR CONDUCTING DYNAMIC MODE-I AND MODE-II INTERLAMINAR FRACTURE TESTS**Thiago Takumi Tan¹, Fernando Guimaraes Vianna¹, WANDERLEY F AMORIM JR¹; ¹*Universidade Federal de Campina Grande***SESSION 26A_08 (16:00 - 17:00) - Special polymer applications - ROOM 3**16:00 **26A_08.1****CHARACTERIZATION OF MINERAL FILLERS FOR EPOXY RESINS**Gabriel Rangel de Fraga Seimetz¹, Letícia Andreolli Dias¹, Carina Mariane Stoltz¹, Daiana Cristina Metz Arnold¹, Fabricio Celso¹, Carlos Leonardo Pandolfo Carone¹, Adriana Teresinha da Silva Dutra¹, Luciano de Oliveira², Kelvyane Souza²; ¹*Universidade Feevale*, ²*VALE S.A.*16:40 **26A_08.2****BIODEGRADABLE DEVICE BASED ON STARCH AND GRAPHITE (TPS-GR) WITH POTENTIAL FOR APPLICATION IN ELECTROCHEMICAL SENSING**Amanda de Sousa Martinez de Freitas¹, Cristiane Carla Maciel², Marystela Ferreira³, Ana Paula Lemes¹; ¹*Universidade Federal de São Paulo*, ²*Universidade Estadual Paulista*, ³*Universidade Federal de São Carlos - Campus Sorocaba***SESSION 26A_06 (16:00 - 17:00) - Polymerization reactions and polymer chemistry - ROOM 4**16:00 **26A_06.1****STUDY OF THE SOLUBILITY OF NATURAL POLYMERS WITH DIFFERENT SOLVENTS**Ívia Maria Mendes¹, Michaela Fialho¹, Rosineide Miranda Leão², Sandra Luz¹; ¹*Universidade de Brasília*, ²*Universidade Paulista*16:20 **26A_06.2****FULLY BIOBASED POLYMER FROM EPOXIDIZED CANOLA OIL AND POLY (LACTIC ACID) OLIGOMER**João Gabriel Passos Rodrigues¹, Marcos Lopes Dias¹; ¹*Universidade Federal do Rio de Janeiro*16:40 **26A_06.3****SYNTHESIS AND CHARACTERIZATION OF XANTHAN CARBOXYMETHYLATED GUM FOR LEAD ADSORPTION.**Micaele Ferreira Lima¹, Maria Isabel Aragão Moura¹, Wesithon Auday De Lima¹, Flávia Oliveira Monteiro da Silva Abreu¹; ¹*Universidade Estadual do Ceará***SESSION 26A_01 (16:00 - 17:00) - Environmental issues associated with polymers - ROOM 5**16:00 **26A_01.1****SYNTHESIS OF THERMOPLASTIC STARCH AIMING AT IMPROVING YOUR MECHANICAL PROPERTIES**Gilberto Sérgio da Silva Ramos Junior¹, Nathalia Maria Silva Malaquias¹, Mailson Batista de Vilhena¹, Edinaldo José de Sousa Cunha¹; ¹*Universidade Federal do Pará*

16:20 **26A_01.2**

EDIBLE SCAFFOLDS WITH TUNABLE MECHANICS AND TOPOLOGY FOR CULTURED MEAT

Amy Rowat¹; ¹*University of California Los Angeles UCLA*

16:40 **26A_01.3**

DEVELOPMENT OF GREEN COMPOSITES OF RECYCLED POLYETHYLENE WITH THE ADDITION OF CELLULOSE OBTAINED FROM CIGARETTE FILTERS

Maria Fernanda Romeu Lino de Souza¹, Fábio Roberto Passador¹; ¹*Universidade Federal de São Paulo*

WEDNESDAY, OCTOBER 27

SESSION PS_9 (08:30 - 09:20) - Environmental issues associated with polymers - ROOM 1

08:30 **PS_9.1**

INDUSTRIAL CITRUS WASTE: AN OPPORTUNITY TO OBTAIN BIODEGRADABLE AND FLEXIBLE COMPOUNDS

Sílvia Helena Prado Bettini¹; ¹*Univerdade Federal de São Carlos*

SESSION KN_06 (10:30 - 11:00) - Polymerization reactions and polymer chemistry - ROOM 6

10:30 **KN_06.1**

MICROENCAPSULATION: A WORLD OF POSSIBILITIES

Maria Filomena Filipe Barreiro¹; ¹*Instituto Politécnico de Bragança*

SESSION KN_01 (10:30 - 11:00) - Environmental issues associated with polymers - ROOM 7

10:30 **KN_01.1**

PHB FROM METHANE USING METHANOTROPHIC BACTERIA – HIGH VOLUME WITH LOW LAND USE

Dr. Maximilian Lackner¹; ¹*Circe Biotechnologie GmbH*

SESSION KN_04 (10:30 - 11:00) - Polymer nanostructures and nanocomposites - ROOM 8

10:30 **KN_04.1**

CIRCULAR ECONOMY: NEW OPPORTUNITIES IN SUSTAINABLE NANO MATERIALS

SABU THOMAS¹; ¹*Mahatma Gandhi University*

SESSION KN_05 (10:30 - 11:00) - Blends, composites and polymer networks - ROOM 910:30 **KN_05.1****BIOINSPIRED SURFACE ENGINEERING FOR MECHANOCROMISM AND THERMAL MANAGEMENT**Luyi Sun¹; ¹*Universidade de Connecticut***SESSION KN_08 (10:30 - 11:00) - Special polymer applications - ROOM 10**10:30 **KN_08.1****SCIENCE AND ENGINEERING OF POLYMERS APPLIED IN BIOLOGICAL SYSTEMS (YOUNG RESEARCHER AWARD WINNER)**Juliano Elvis Oliveira¹; ¹*Universidade Federal de Lavras***SESSION 27M_04 (11:00 - 12:00) - Polymer nanostructures and nanocomposites - ROOM 1**11:00 **27M_04.1****INFLUENCE OF MULTI-LAYER GRAPHENE OXIDE DISTRIBUTION ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF POLY(ETHYLENE TEREPHTHALATE) NANOCOMPOSITES**Guilhermino José Macedo Fechine¹, Gabriel Matheus Pinto¹, Giovanna da C. Silva¹; ¹*Universidade Presbiteriana Mackenzie*11:20 **27M_04.2****HYBRID CONDUCTIVE GELS USED AS FLEXIBLE ELECTRODES**Joana de Barros Sacramento¹, Rogério Ramos Sousa Júnior¹, Danilo Justino Carastan¹; ¹*Universidade Federal do ABC*11:40 **27M_04.3****EFFECT OF NANOSILICA, NANOCCLAY OR GRAPHENE OXIDE AS REINFORCING AGENTS TO EPDM RUBBER**Hugo Rafael Vallejo Angulo¹, Abel Cardoso Gonzaga Neto¹, Ticiane Sanches Valera¹; ¹*Universidade de São Paulo***SESSION 27M_05 (11:00 - 12:00) - Blends, composites and polymer networks - ROOM 2**11:00 **27M_05.1****DEVELOPMENT OF A BIAXIAL TENSILE DEVICE IN THE PLANE FOR MONOTONIC MECHANICAL TESTS AND CRUCIFORM SPECIMENS**Walter Belarmino Filho¹, Fernando Guimaraes Vianna¹, Sergio Ricardo Soares Neves¹, Fernando Almeida da Silva¹, WANDERLEY F AMORIM JR¹; ¹*Universidade Federal de Campina Grande*11:20 **27M_05.2****EFFECT OF INCORPORATION PROPOLIS EXTRACT IN BIOPOLYMERIC FILMS BASED ON PECTIN**Giuliana Thalina Franco¹, Henrique de Moraes Oliveira¹, Caio Gomide Otoni², Luiz Henrique Capparelli Mattoso¹; ¹*Embrapa Instrumentação*, ²*Univerdade Federal de São Carlos*

11:40 **27M_05.3**

ON THE MODE-I FRACTURE TOUGHNESS OF FILAMENT WOUND CURVED LAMINATES

Artur Altermann Pollet¹, Humberto Almeida Jr.², Sandro Campos Amico¹; ¹*Universidade Federal do Rio Grande do Sul*, ²*Queen's University Belfast*

SESSION 27M_08 (11:00 - 12:00) - Special polymer applications - ROOM 3

11:00 **27M_08.1**

NANOCELLULOSE COMPOSITES OF CONDUCTIVE POLYMERS FOR APPLICATION IN ELECTRONIC DEVICES AND ELECTROMAGNETIC SHIELDING

Paula Nunes Santos¹, Mirella Cristina de Oliveira Silva¹, LUIS CARLOS DE MORAIS², Daniel Pasquini¹; ¹*Universidade Federal de Uberlândia*, ²*Universidade Federal do Triângulo Mineiro*

11:20 **27M_08.2**

SYNTHESIS AND CHARACTERIZATION OF POLYMERIC MEMBRANES WITH THE INCORPORATION OF ADSORBENT MATERIALS

Rafael Stival Mendes¹, Maria Carolina Sérgi Gomes¹, Sirlei Marques Paschoal¹, Leila Denise Fiorentin Ferrari², Fernanda Lini Seixas¹; ¹*Universidade Tecnológica Federal do Paraná*, ²*Universidade Estadual do Oeste do Paraná*

11:40 **27M_08.3**

POLYELECTROLYTE-BASED INK WITH RGB EMISSION PROPERTIES FOR SAFETY TAGGING

Artur José Monteiro Valente¹, Beatriz Gomes¹, Roberto Aguado Garcia¹; ¹*Universidade de Coimbra*

SESSION 27M_06 (11:00 - 12:00) - Polymerization reactions and polymer chemistry - ROOM 4

11:00 **27M_06.1**

KINETICS AND MECHANISM OF LIPASE-CATALYSED POLYCONDENSATION OF GLYCEROL AND SEBACIC ACID

Giovanni Bortoloni Perin¹, Maria Isabel Felisberti¹; ¹*Universidade Estadual de Campinas*

11:20 **27M_06.2**

KINETIC POLYMERIZATION OF CASTOR OIL POLYURETHANES BY A RHEOLOGICAL METHOD AND NEURAL NETWORK

Joziel Aparecido da Cruz¹, Alexia Oberdiek¹, Otávio Bianchi¹, Sandro Campos Amico¹; ¹*Universidade Federal do Rio Grande do Sul*

11:40 **27M_06.3**

LOW MOLAR MASS POLYMETHACRYLATES OBTAINED BY CHEMICAL RECYCLING OF ARTIFACTSPOST USE ACRYLICS

Ticiane Vieira de Paula Souza¹; ¹*Universidade Federal do Paraná*

SESSION 27M_01 (11:00 - 12:00) - Environmental issues associated with polymers - ROOM 511:00 **27M_01.1****FILTERING MEMBRANES OBTAINED FROM POLYVINYL ALCOHOL NANOFIBERS (PVA) AND CHITOSAN BY ELECTROSPINNING**Camila Cassia Cordeiro¹, Douglas Cardoso Dragunski¹; ¹*Universidade Estadual do Oeste do Paraná*11:20 **27M_01.2****APPLICATION OF RICE HUSK AS FILLER IN POLIMERIC COMPOSITES: EVALUATION OF THE INFLUENCE OF PARTICLE SIZE**Michel Vinicius Flach¹, Eduarda Kraspenhar¹, Fernando Dal Pont Morisso¹, Carlos Leonardo Pandolfo Carone¹, Vanusca Dalosto Jahno¹; ¹*Universidade Feevale*11:40 **27M_01.3****USE OF WASTE COTTONSEED OIL IN THE SYNTHESIS OF POLYURETHANE COATINGS**Renata Costa Silva Araújo¹, Pedro Henrique Oliveira Barbosa Nogueira¹, Janine Balmant Neiva¹, Fernanda Basilio Obici Garcia¹; ¹*Universidade Federal de Minas Gerais***SESSION PS_11 (14:00 - 14:50) - Blends, composites and polymer networks - ROOM 1**14:00 **PS_11.1****COMPLEX POLYMERIC MATERIALS THROUGH SELF-ASSEMBLY INITIATED BY SMALL MOLECULES: REVERSIBLE GELS, IONOMERS, AND RUBBERY POLYMERS**Richard G. Weiss¹; ¹*Georgetown University***SESSION PS_12 (15:00 - 15:50) - Special polymer applications - ROOM 6**15:00 **PS_12.1****WATER-BASED MULTIFUNCTIONAL NANOCOATINGS FROM POLYELECTROLYTE COMPLEXATION: OPPORTUNITIES & CHALLENGES**Jaime C. Grunlan¹; ¹*Texas A&M University***SESSION 27A_09 (16:00 - 17:00) - Innovation and management involving polymers and topics in education - ROOM 1**16:00 **27A_09.1****STUDY OF CONSUMER VISUAL EXPECTATION REGARDING PECTIN AND WPI FILMS**Ana Carolina Salgado Oliveira¹, Michele Nayara Ribeiro¹, Roney Alves da Rocha¹, Julio Cesar Ugucioni¹, Soraia Vilela Borges¹; ¹*Universidade Federal de Lavras*

16:20 **27A_09.2**

DEVELOPMENT OF A PRELIMINARY PROCESS DESIGN FOR THE INSTALLATION OF A PILOT PLANT TO PRODUCE SUPERABSORBENT HYDROGEL REINFORCED WITH FERTILIZERS (NPK) FOR APPLICATION IN RICE CROP (*ORYZA SATIVA L.*)

María Verónica Carranza Oropeza¹, Diego David Pinzón Moreno¹, José Vulfrano González Fernández¹, José Luis Soto González¹, Saul Olarte Calsina¹, Yduo Salvador Ataucusi¹; ¹*Universidad Nacional Mayor de San Marcos*

16:40 **27A_09.3**

EXTRACTION AND ANALYSIS OF NATURAL RUBBER FROM THE LATEX OF THE FIG TREE, JACKFRUIT, AND POLYMER ANALYSIS OF DURIAN

Dr. Maximilian Lackner¹, Isabella Wagner²; ¹*FH Technikum Wien*, ²*University of Applied Sciences Technikum Wien*

SESSION 27A_02 (16:00 - 17:00) - Processing and printing of polymers - ROOM 2

16:00 **27A_02.1**

OPTIMIZATION OF THE FFF 3D PRINTING APPLIED TO METAL CASTING TOOLS USING THE TAGUCHI METHOD

Ariangelo Hauer Dias Filho^{1,2}, Benjamim Melo Carvalho², Gustavo Antoniácomi de Carvalho²; ¹*Instituto Tecnológico de Aeronáutica*, ²*Universidade Estadual de Ponta Grossa*

16:20 **27A_02.2**

FRESH 3D PRINTING OF DOUBLE CROSSLINKED HYALURONIC ACID/PECTIN HYDROGELS

Daniele Mayara Catori¹, Marcos Vinícius Lorevice¹, Laura Caetano Escobar da Silva¹, GEOVANY CANDIDO², ANA LUIZA GARCIA MASSAGUER MILLÁS², Marcelo Ganzarolli De Oliveira¹; ¹*Universidade Estadual de Campinas*, ²*3D Biotechnology Solutions*

16:40 **27A_02.3**

INFLUENCE OF ALCOHOL BASED NONSOLVENTS ON THE FORMATION OF CELLULOSE ACETATE MONOLITH PREPARED FROM NONSOLVENT/THERMALLY INDUCED PHASE SEPARATION PROCESS

Poliana Ricci¹, Andressa Tironi Vieira¹, Rosana Maria Nascimento de Assunção¹, Anizio Marcio de Faria¹; ¹*Universidade Federal de Uberlândia*

SESSION 27A_03 (16:00 - 17:00) - Biomedical applications of polymers - ROOM 3

16:00 **27A_03.1**

HYDROGELS CONTAINING MICROPARTICLES FOR DUAL-DRUG RELEASE

Jose Gregorio Fontainez Garrido¹, Mariana Agostini de Moraes¹, Fabiana Perrechil Bonsanto¹; ¹*Universidade Federal de São Paulo*

16:20 **27A_03.2**

FUNCTIONALIZATION OF POLY(LACTIC ACID) AND POLY(ETHYLENE GLYCOL) FOR APPLICATION IN MULTICOMPONENT UGI REACTION

Joana de Souza von der Weid¹, Marcos Lopes Dias¹, Luis Icart¹; ¹*Universidade Federal do Rio de Janeiro*

16:40 **27A_03.3****THERMAL ANALYSIS AND STUDY OF ATORVASTATIN (ATV) RELEASE FROM POLYCAPROLACTONE/ATV FILMS**

Yasmin dos Anjos Garcia¹, Debora Baptista Pereira¹, Beatriz Ferreira de Carvalho Patricio², Talita Goulart da Silva¹, Hellen Regina Oliveira de Almeida¹, Marcelo Henrique da Cunha Chaves², Michelle Alvares Sarcinelli², Helvécio Vinícius Antunes Rocha², Roberta Helena Mendonça¹; ¹*Universidade Federal Rural do Rio de Janeiro*, ²*Fundação Oswaldo Cruz*

SESSION 27A_07 (16:00 - 17:00) - Polymer physics and characterization - ROOM 416:00 **27A_07.1****KINETIC STUDY OF THE THERMAL DECOMPOSITION OF A NITROGEN FERTILIZER COATED WITH METHYLCELLULOSE BY THE OZAWA ISOCONVERSIONAL METHOD**

Murilo Thomé de Falco¹, Marcos Vinícius Ferreira¹, Rosana Maria Nascimento de Assunção¹; ¹*Universidade Federal de Uberlândia*

16:20 **27A_07.2****EVALUATION OF MECHANICAL PROPERTIES OF MIXTURES OF VIRGIN AND RECYCLED HIGH-DENSITY POLYETHYLENE**

Victor Abdo Hallack¹, Leonardo Pereira², Artur C. Mottin³, Lucas V. Moreira⁴, Rodrigo T. S. Freire⁴; ¹*Universidade Federal de Ouro Preto*, ²*Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais*, ³*Centro Federal de Educação Tecnológica de Minas Gerais*, ⁴*Universidade Federal de São João Del Rei*

16:40 **27A_07.3****OBTAINING AND CHARACTERIZING ELECTROSPUN POLYMER FIBERS FROM PBAT/PLA WITH TIO₂/FE₃O₄**

Alessandra Ruyz Medeiros¹, Fabiana Silva Lima², Gabriel Nardi Fraga¹, Douglas Cardoso Dragunski¹, Josiane Caetano¹; ¹*Universidade Estadual do Oeste do Paraná*, ²*Universidade Estadual de Maringá*

SESSION 27A_01 (16:00 - 17:00) - Environmental issues associated with polymers - ROOM 516:00 **27A_01.1****THERMOPHYSICAL AND MECHANICAL EVALUATION OF BLENDS BASED ON RECYCLED POLY(ETHYLENE TEREPHTHALATE) - PET AND POLY(HIGH DENSITY ETHYLENE) – PEAD**

Kássio André Lacerda¹, Marco Elísio Marques¹, André Ricardo de Souza¹; ¹*Universidade Fumec*

16:20 **27A_01.2****CHITOSAN AS A GREEN POLYMERIC INHIBITOR FOR MILD STEEL: ELECTROCHEMICAL BEHAVIOR IN SODIUM CHLORIDE MEDIUM**

Lisete Cristine Scienza¹; ¹*Universidade Federal do Rio Grande do Sul*

16:40 **27A_01.3****COMPARATIVE LIFE CYCLE ANALYSIS OF PLASTIC AND METALLIC FENDERS**

Maísa Pabis¹, Julio César Souza¹, Marcella Cristina Neves Alvarenga¹; ¹*Stellantis*

THURSDAY, OCTOBER 28

SESSION PS_13 (08:30 - 09:20) - Biomedical applications of polymers - ROOM 1

08:30 **PS_13.1**

RESTORE AND REGENERATE OUR NATURAL RESOURCES: HIGH-VALUE BIOBASED PRODUCTS FOR BIOMATERIALS APPLICATIONS

Amin Shavandi¹; ¹*Université Libre de Bruxelles*

SESSION PS_14 (09:30 - 10:20) - Processing and printing of polymers - ROOM 2

09:30 **PS_14.1**

IN-PROCESS CHARACTERIZATION OF POLYMER NANOCOMPOSITES DURING EXTRUSION

José António Colaço Gomes Covas¹; ¹*Universidade do Minho*

SESSION PS_15 (10:30 - 11:20) - Environmental issues associated with polymers - ROOM 6

10:30 **PS_15.1**

INTEGRATED TECHNOLOGIES USING POLYMERS THAT CONTRIBUTE TO THE REDUCTION OF WASTE FROM DIFFERENT INDUSTRIAL SECTORS

Patrícia Santiago de Oliveira Patrício¹; ¹*Centro Federal de Educação Tecnológica de Minas Gerais*

SESSION 28M_04 (11:20 - 12:20) - Polymer nanostructures and nanocomposites - ROOM 1

11:20 **28M_04.1**

CRYSTALLIZATION KINETICS OF POLY (LACTIC ACID)/HALLOYSITE NANOCOMPOSITES

Lidiane Cristina Costa¹, Juliano Marini¹, Guilherme Gonçalves Biazin¹; ¹*Univerdade Federal de São Carlos*

11:40 **28M_04.2**

LAPONITE-BASED NANOHYDROGEL AS NANOCARRIER: DELIVERY AND THE SYNERGISTIC EFFECT BETWEEN CISPLATIN AND 5-FLUOROURACIL

Samile Bezerra de Aguiar¹, Carolyne Brustolin Braga¹, Cátia Cristina Capêlo Ornelas Megiatto¹; ¹*Universidade Estadual de Campinas*

12:00 **28M_04.3**

PHOTODEGRADATION OF PS/MOS₂ NANOCOMPOSITES WITH ULTRALOW CONTENT OF 2D FILLER

Guilhermino José Macedo Fechine¹, Aurianny L. Angulo², Camila Laura Celis², Pablo Andrés Riveros Muñoz²; ¹*Universidade Presbiteriana Mackenzie*, ²*Mackenzie Presbyterian University*

SESSION 28M_05 (11:20 - 12:20) - Blends, composites and polymer networks - ROOM 211:20 **28M_05.1****INVESTIGATION OF THE REINFORCING EFFECT OF ORGANOCLAY CLOISITE 15A ON THE RECYCLED PET MATRIX BY DYNAMIC MECHANICAL ANALYSIS**

Luciana Ribeiro Honorato¹, Patrícia de Fátima Rodrigues², Adriana dos Anjos Silva³, Luciano Pessanha Moreira²; ¹Fundação Centro de Ciências e Educação Superior à Distância do Estado do Rio de Janeiro, ²Universidade Federal Fluminense, ³Universidade Federal do Rio de Janeiro

11:40 **28M_05.2****MECHANICAL CHARACTERIZATION OF THE POLYURETHANE BIOCOMPOSITE OBTAINED FROM MAMONA OIL REINFORCED WITH BANANA FIBERS**

Paulo Roberto Correia Marcelino¹, Bárbara Maria Mateus Gonçalves¹, Eduarda Chiabai Rodrigues de Melo¹, Mayara de Oliveira Camillo¹, Poliana Dariva Menini¹, Nayara Soares Satolo¹, Sara Medeiros de Almeida¹, Michel Picanço Oliveira¹; ¹UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO

12:00 **28M_05.3****MECHANICAL STRENGTH BEHAVIOR OF POLYPROPYLENE COMPOSITES WITH HYBRID GLASS FIBERS AND HOLLOW MICROSPHERES**

Gabriel Matos da Silva¹, Gustavo Baldi de Carvalho¹, Leonardo Bresciani Canto¹, José Alexandrino Sousa¹; ¹Univerdade Federal de São Carlos

SESSION 28M_08 (11:20 - 12:20) - Special polymer applications - ROOM 311:20 **28M_08.1****RELEASE OF OREGANO ESSENTIAL OIL IN SIMULATED FOOD CONDITIONS FROM PHBV BIODEGRADABLE FILMS**

Renata Cerruti da Costa¹, Ana Paula Ineichen¹, Cristiano da Silva Teixeira¹, Ismael Casagrande Bellettini¹, Larissa Nardini Carli¹; ¹Universidade Federal de Santa Catarina

12:00 **28M_08.2****POROUS BIODEGRADABLE BIOMATERIALS LOADED WITH MELALEUCA OIL AND CURCUMINOIDS FOR THE CONTROL OF *Aedes Aegypti***

Glaucia Regina Medeiros Burin¹, Vinícius Couto Pires², Fábio Rocha Formiga², Elaine Cabral Albuquerque³, Silvio A. B. Vieira de Melo³, Mara Elga Medeiros Braga⁴, Hermínio José Cipriano de Sousa⁴; ¹Universidade Federal do Paraná, ²Fundação Oswaldo Cruz, ³Universidade Federal da Bahia, ⁴Universidade de Coimbra

SESSION 28M_06 (11:20 - 12:20) - Polymerization reactions and polymer chemistry - ROOM 411:20 **28M_06.1****SYNTHESIS AND CHARACTERIZATION OF SUPERABSORBENT HYDROGELS BASED ON STARCH AND ACRYLIC ACID**

María Verónica Carranza Oropeza¹, Diego David Pinzón Moreno¹, Isabel Rosali Maurate Fernández¹; ¹Universidad Nacional Mayor de San Marcos

11:40 **28M_06.2**

SIMULATION OF THE SYNTHESIS OF CARBOXY-TELECHELIC POLYSTYRENE BY NITROXIDE MEDIATED POLYMERIZATION (NMP)

Inácio José Galego Cassimiro¹, Liliane Maria Ferrareso Lona¹; ¹UNIVERSIDADE ESTADUAL DE CAMPINAS

12:00 **28M_06.3**

EFFECT OF CHAIN EXTENDERS ON THE STRUCTURE AND PROPERTIES OF POLYURETHANES

Otávio Bianchi¹; ¹Universidade Federal do Rio Grande do Sul

SESSION 28M_01 (11:20 - 12:20) - Environmental issues associated with polymers - ROOM 5

11:20 **28M_01.1**

ASSESSING MICROPLASTIC DEGRADATION USING FTIR: WHAT IT CAN TELL AND WHAT IT CAN WHISPER?

Crislaine Bertoldi¹, Larissa Zacher Lara¹, Andreia Neves Fernandes¹, Walter Ruggeri Waldman²; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de São Carlos - Campus Sorocaba

11:40 **28M_01.2**

PROPERTIES OF SPENT COFFEE GROUNDS FILLED POLYPROPYLENE

Baltus Cornelius Bonse¹, Gustavo Luiz Bueno Cardoso¹; ¹Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros

12:00 **28M_01.3**

COMPARATIVE LIFE CYCLE ANALYSIS OF POLYPROPYLENE USING EGGSHELL TO REPLACE NON-RENEWABLE MINERAL CARGO APPLIED TO AUTOMOTIVE COMPONENTS

Maísa Pabis¹, Julio César Souza¹, Marcella Cristina Neves Alvarenga¹; ¹Stellantis

SESSION CAM_2 (12:20 - 14:00) - - ROOM 6

12:20 **CAM_2.1**

CLOSING CEREMONY – STUDENTS AWARD CEREMONY – ABPOL CONVENTION

Marco Aurelio De Paoli¹; ¹Universidade Estadual de Campinas

POSTER PRESENTATIONS

MONDAY, OCTOBER 25

SESSION 25_P1(17:00 - 18:30) - Poster01_01

01 - Environmental issues associated with polymers

25_P1.1 MOISTURE INFLUENCE IN THE FLEXURAL PROPERTIES OF POLYPROPYLENE COMPOSITE REINFORCED WITH UNSMOKED CIGARETTE BUTTS

Giovana Roberta Francisco Bronzato¹, Milena Chanes de Souza¹, Ivan Moroz¹, Victor Angelo Cavalari Arantes dos Reis¹, Ivana Cesarino¹, Alcides Lopes Leão¹; ¹Universidade Estadual Paulista

25_P1.2 STARCH-BASED EXPANDED COMPOSITES WITH BREWING INDUSTRIAL BYPRODUCTS

Aline Carvalho Lopes¹, Juliana Bonametti Olivato¹; ¹Universidade Estadual de Ponta Grossa

25_P1.3 USE OF ELECTROSPUN POLYACRYLONITRILE MEMBRANE COATED WITH POLYPYRROLE AND POLYANILINE FOR REMOVAL OF THE REMAZOL BLACK B DYE: KINETIC AND EQUILIBRIUM STUDIES

Andressa Nathally Rocha Leal¹, Maurício Fonsêca de Aguiar¹, Winnie Queiroz Brandão¹, Hérica Dias da Rocha¹, Joyce Silva¹, Iranildo José da Cruz Filho¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco

25_P1.4 PREPARATION AND CHARACTERIZATION OF PAN/PPY MEMBRANES FOR GLYPHOSATE REMOVAL

Joyce Silva¹, Gizele das Graças Farias de Andrade¹, JÉSSICA SIMÕES DE ANDRADE¹, Andressa Nathally Rocha Leal¹, Maurício Fonsêca de Aguiar¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco

25_P1.5 PEA PROTEIN AND CUTIN FILMS

Anny Manrich¹, Maria Alice Martins¹, Luiz Henrique Capparelli Mattoso¹; ¹Embrapa Instrumentação

25_P1.6 APPLE POMACE AS FEEDSTOCK FOR BIOCHAR PRODUCTION BY PYROLYSIS: STUDY AND APPLICATION

Arthur V. de Oliveira¹, Harumi Otaguro¹; ¹Universidade Federal de Uberlândia

25_P1.7 IDENTIFICATION OF PLASTIC SAMPLES FOUND IN THE GASTROINTESTINAL SYSTEM OF SEA TURTLES OF THE SPECIE *CHELONIA MYDAS* (LINNAEUS, 1958)

Ruth Rodrigues Alves¹, Bruna Vanessa Quevedo Miranda², Maira de Lourdes Rezende¹; ¹Faculdade de Tecnologia de Sorocaba, ²Universidade Federal de São Carlos - Campus Sorocaba

25_P1.8 SYNTHESIS OF FLAME RETARDANT POLYOLS FROM EPOXIDIZED SOYBEAN OIL

Camila Silva Brambilla¹, Cesar Liberato Petzhold¹; ¹Universidade Federal do Rio Grande do Sul

25_P1.9 LINALOOL ESSENTIAL OIL/NANOCELLULOSE-BASED PICKERING EMULSIONS

Alana Gabrieli Souza¹, Jéssica Souza Marciano¹, Rafaela Reis Ferreira¹, Eder Ramin de Oliveira¹, Mauricio Maruo Kato¹, Derval dos Santos Rosa¹; ¹Universidade Federal do ABC

25_P1.10 PBAT ACTIVE FILMS CONTAINING NANOCELLULOSE AND ESSENTIAL OIL CAPSULES

Derval dos Santos Rosa¹, Rennan Felix da Silva Barbosa¹; ¹Universidade Federal do ABC

25_P1.11 SYNTHESIS AND CHARACTERIZATION OF SUSTAINABLE POLYURETHANE FROM CHICKEN FAT

Edson Araujo de Almeida¹, Andressa Mosoli², Edvani Curti Muniz^{1,3,2}, REGIANE DA SILVA GONZALEZ², Letícia Ledo Marciniuk²; ¹Universidade Estadual de Maringá, ²Universidade Tecnológica Federal do Paraná, ³Universidade Federal do Piauí

25_P1.12 DOES BEESWAX-BASED COATING ON CELLULOSIC SUBSTRATE ENABLE TO REPLACE POLYVINYL CHLORIDE PLASTIC FILMS (PVC)?

Danielle Kênia Fraga¹, Caroline Salvan Pagnan¹, Rosemary do Bom Conselho Sales¹, Eliane Ayres¹; ¹Universidade do Estado de Minas Gerais

25_P1.13 AN OVERVIEW ON MICROPLASTICS IN LAKES

Fabiula Danielli Bastos de Sousa^{1,2}; ¹Universidade Federal de Pelotas, ²Universidade Federal do ABC

25_P1.14 THE IMPACT OF PLASTIC TO THE ENVIRONMENT DURING THE COVID-19 PANDEMIC

Fabiula Danielli Bastos de Sousa^{1,2}; ¹Universidade Federal de Pelotas, ²Universidade Federal do ABC

25_P1.15 EFFECT OF POLYCARBODIIMIDE ON THE RHEOLOGICAL PROPERTIES OF POLY (ETHYLENE TEREPHTHALATE)

Flavia Letícia Silva Freitas¹, Anne Cristine Chinellato¹, Sandra Andréa Cruz²; ¹Universidade Federal do ABC, ²Univerdade Federal de São Carlos

25_P1.16 INFLUENCE OF TEMPERATURE ON THE PYROLYSIS PROCESS FOR THE TREATMENT OF POLYSTYRENE-BASED PLASTIC

Gabriel de Oliveira Rodrigues¹, Sergio Duvoisin Junior¹, Douglas Alberto Rocha de Castro², Carlos Castro Vieira Quaresma², Wanison André Gil Pessoa Júnior³, Lizandro Manzato³, Nélio Teixeira Machado⁴; ¹Universidade do Estado do Amazonas, ²Universidade Luterana do Brasil, ³Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ⁴Universidade Federal do Pará

25_P1.17 STUDY OF PHB MIXTURES WITH POLYMER OF MORINGA OIL - EVALUATION OF BIODEGRADABILITY AND MIXING POTENTIAL

Giovanna Medeiros Miranda¹, Katia Monteiro Novack¹, Tânia Márcia Sacramento Melo¹, Cristiane Medina Finzi-Quintão²; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de São João Del Rei

25_P1.18 SURFACE HYDROPHOBIZATION OF PULP AND NANOFIBRILATED CELLULOSE FILMS USING BLOCKED ISOCYANATES

Gustavo de Souza¹, Ricardo Klaus Kramer¹, Antonio José Felix Carvalho¹; ¹Universidade de São Paulo

25_P1.19 ENHANCED PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS MEDIATED BY ZN(II)-PORPHYRIN/POLY(ACRYLIC ACID) HYBRID MICROPARTICLES.

Henrique Peres da Mota¹, Rafael Fonseca Neves Quadrado¹, Bernardo Almeida Iglesias², André Ricardo Fajardo¹; ¹Universidade Federal de Pelotas, ²Universidade Federal de Santa Maria

25_P1.20 DEVELOPMENT OF SUPERABSORBENT HYDROGEL BASED ON GUM ARABIC FOR ENHANCED REMOVAL OF ANXIOLYTIC DRUG FROM WATER.

Henrique Peres da Mota¹, André Ricardo Fajardo¹; ¹Universidade Federal de Pelotas

25_P1.21 EVALUATION OF TOXICITY METHOD (*ARTEMIA SALINA*) IN HYDROGELS OF CASHEW GUM

Idglan Sá de Lima¹, Heldeney Rodrigues de Sousa¹, Lucas Mateus de Lima Neris¹, Albert Santos Silva¹, Ariane Maria da Silva Santos Nascimento¹, Francisca Pereira de Araújo¹, Rafael Felipe Ratke², Durcilene Alves Silva¹, Edvani Curti Muniz^{3,1,4}, Josy A. Osajima¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí, ²Universidade Federal de Mato Grosso do Sul, ³Universidade Estadual de Maringá, ⁴Universidade Tecnológica Federal do Paraná

25_P1.22 PREPARATION AND ANALYSIS OF THERMOPLASTIC STARCH/LDPE COMPOSITE IN BIODEGRADATION AFTER COMPOSTING PROCESS

Jonas Ludwig de Bitencourt¹, Edson Francisquetti¹, Mara zení de Andrade¹, Laura Nallem Francisquetti¹, Ana Maria Coulon Grisa², Douglas Alexandre Simon¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ²Universidade de Caxias do Sul

25_P1.23 ANALYSIS OF THE MECHANICAL AND RHEOLOGICAL PROPERTIES OF POLYPROPYLENE/GRAPHENE OXIDE COMPOSITIONS OBTAINED FROM EXHAUSTED BATTERIES

Paola Arícia Tarachuque¹, Reinaldo Yoshio Morita¹, Scheyla Elsi Camargo Zeck², Luis Antonio Pinheiro³, Jarem Raul Garcia³, Alex Vieira Pedroso³, Juliana Regina Kloss¹; ¹Universidade Tecnológica Federal do Paraná, ²Earth Renewable Technologies Company, ³Universidade Estadual de Ponta Grossa

25_P1.24 BIOFLEX RUBBER: A NEW SUSTAINABLE PLASTICIZER FOR NATURAL RUBBER COMPOUNDS

Karin Janete Stein Brito¹, Maria Madalena de Camargo Forte¹, Cristiane Jaqueline Mauss²; ¹Universidade Federal do Rio Grande do Sul, ²Instituto SENAI de Inovação em Engenharia de Polímeros

25_P1.25 PRODUCTION AND CHARACTERIZATION OF STARCH/PVA BLENDS WITH BIOACTIVE COMPOUNDS FROM MALT BAGASSE

Lais Cristina Monteiro de Almeida¹, Juliana Bonametti Olivato¹; ¹Universidade Estadual de Ponta Grossa

25_P1.26 EXOPOLYSACCHARIDE PRODUCTION FROM *BACILLUS* ISOLATED FROM BRAZIL'S NORTHEASTERN SOIL

Bruna Marques de Paula¹, Lara Isensee Saboya de Sousa¹, Jessica Silva de Almeida¹, Matheus de Oliveira Barros¹, Christiana de Fátima Bruce da Silva², Morsyleide de Freitas Rosa², Ana Iraidy Santa Brígida²; ¹Universidade Federal do Ceará, ²Embrapa Agroindústria Tropical

25_P1.27 ESTERS FROM CASTOR OIL FUNCTIONALIZED WITH AROMATIC AMINES AS POTENTIAL LUBRICANT

Laura de Andrade Souza¹, Cesar Liberato Petzhold¹, Edson Francisquetti², Denise Ramos Moreira³, Nágila Maria Pontes Silva Ricardo³, Martin E. Maier⁴, Francisco Murilo Tavares de Luna³, Paulo Roberto Campos Flexa Ribeiro Filho³; ¹Universidade Federal do Rio Grande do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ³Universidade Federal do Ceará, ⁴University of Tübingen

25_P1.28 REUSE OF POLYESTER FIBERS FROM DECOMMISSIONED OFFSHORE PLATFORMS BY BLENDING WITH POLYETHYLENE POST-CONSUMED

Layz Mata Salimena¹, Ana Lúcia Nazareth da Silva¹, Monica Pertel¹, Elisson Brum Dutra da Rocha², Renan Henriques Gonçalves de Almeida³, Milton Briguet Bastos⁴, Ruth Osorio de Lima¹; ¹Universidade Federal do Rio de Janeiro, ²Universidade do Estado do Rio de Janeiro, ³Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro, ⁴MBB Enterprises

25_P1.29 CHARACTERIZATION OF THE BLEND OF RECYCLED POLYSTYRENE WITH RECYCLED POLYPROPYLENE

Eduardo Radovanovic¹, lidia pereira amaro¹, Silvia Luciana Fávaro¹; ¹Universidade Estadual de Maringá

25_P1.30 INFLUENCE OF INCORPORATION AND GRANULOMETRY OF POST-CONSUMPTION YERBA MATE ON THE DEGRADABILITY OF POLY(LACTIC ACID): NATURAL WEATHERING AND COMPOSTING

Magali Canton Casagrande¹, Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul

25_P1.31 BIODEGRADABILITY EVALUATION OF FILMS BASED ON CORN STARCH AND BREWER'S SPENT GRAIN

Maria Natália Castanho¹, Karen de Souza do Prado¹, Janaína Braga do Carmo¹, Jane Maria Faulstich de Paiva¹; ¹Universidade Federal de São Carlos - Campus Sorocaba

25_P1.32 DEVELOPMENT OF A SENSOR USING ELECTROSPINNING TECHNIQUE FOR DYE REMOVAL

Alessandra Ruyz Medeiros¹, Marina Mulinari¹, Douglas Cardoso Dragunski¹, Josiane Caetano¹; ¹Universidade Estadual do Oeste do Paraná

25_P1.33 SOLUBILIZATION OF CELLULOSE BY SUPERCRITIC CO₂ IN THE PRESENCE OF SUPERBASE DBU

Matheus Fernandes Flores¹, Marcelo Miranda de Oliveira¹, Antonio Aprigio da Silva Curvelo¹; ¹Universidade de São Paulo

25_P1.34 OXIDATIVE DELIGNIFICATION OF SUGAR-CANE BAGASSE

Matheus Henrique dos Santos¹, Antonio Aprigio da Silva Curvelo¹; ¹Universidade de São Paulo

25_P1.35 ECO AUDIT ANALYSIS AND END-OF-LIFE ALTERNATIVES FOR DIFFERENT DRINKING STRAWS MATERIALS

Patricia Schmid Calvão¹; ¹Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros

25_P1.36 DEGRADATION EVOLUTION OF BLENDS PE/TPS DURING COMPOSTING

Pedro Henrique Santaliestra e Silva¹, Gabriela Oliveira Campos¹, Fabiula Danielli Bastos de Sousa^{1,2}; ¹Universidade Federal de Pelotas, ²Universidade Federal do ABC

25_P1.37 CHEMICAL MODIFICATIONS IN BLENDS PS/TPS COMPATIBILIZED WITH CARBOXYLIC ACID

Gabriela Oliveira Campos¹, Pedro Henrique Santaliestra e Silva¹, Fabiula Danielli Bastos de Sousa^{1,2}; ¹Universidade Federal de Pelotas, ²Universidade Federal do ABC

25_P1.38 WATER VAPOR AND LIGHT BARRIER PROPERTIES OF SODIUM ALGINATE/SIO₂ NANOCOMPOSITE FILMS

Renan Garcia da Silva¹, Roniérik Pioli Vieira², Luís Marangoni Júnior³, Rosa Maria Vercelino Alves³; ¹UNIVERSIDADE ESTADUAL DE CAMPINAS, ²Universidade Estadual de Campinas, ³Packaging Technology Center

25_P1.39 LIGNINS EXTRACTED FROM BANANA RESIDUES BY DIFFERENT METHODS

Rosangela Almeida Maia¹; ¹Universidade Estadual Paulista

25_P1.40 DETERMINATION OF MICROPLASTICS IN BRAZILIAN SEA SALT

Sérgio Henrique Pezzin¹, Laís Aparecida Piaç¹, Cesar Gabriel Ribeiro¹, José Augusto Da Col¹; ¹Fundação Universidade do Estado de Santa Catarina

25_P1.41 INCORPORATION OF LIPASE IN BACTERIAL CELLULOSE FILTERS

Victoria Fonseca Silveira¹, Sandro Rogério Kumineck Junior¹, Ana Paula Testa Pezzin¹, Andrea Lima dos Santos Schneider¹, Michele Cristina Formolo Garcia¹; ¹Universidade da Região de Joinville

25_P1.42 BIOPOLYMERS MARKET AND ANALYSIS OF BRAZILIAN IMPORT DATA OF PLA

Virnna Cristhielle Santana Barbosa¹, Ana Maria Furtado de Sousa¹, Ana Lúcia Nazareth da Silva²; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Federal do Rio de Janeiro

25_P1.43 REUSE OF POLYMERIC RESIDUE FROM THE TEXTILE AND CLOTHING INDUSTRY

Willian Coelho Gomes¹, Ana Lúcia Nazareth da Silva¹, Elen Vasques Pacheco¹, Maria Eloisa de Jesus Conceição², Renan Henriques Gonçalves de Almeida³; ¹Universidade Federal do Rio de Janeiro, ²Pontifícia Universidade Católica do Rio de Janeiro, ³Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro

25_P1.44 APPLICATION OF BIOPOLYMERS IN DRILLING FLUIDS: A LITERATURE REVIEW

Valéria Silva dos Santos¹, Andreas Nascimento¹; ¹UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO

*02 - Processing and printing of polymers***25_P2.45 INFLUENCE OF THE CONCENTRATION OF COCONUT OIL IN THE PROCESSABILITY AND STABILITY OF THERMOPLASTIC STARCH**

Carlos Henrique Rodrigues Milfont¹, Juciklécia da Silva Reinaldo¹, Edson Noriyuki Ito¹; ¹Universidade Federal do Rio Grande do Norte

25_P2.46 INTERACTION BETWEEN TYPE I AND II COAGENTS AND POLYBUTADIENE ISOMERS ON CROSSLINKING SYSTEMS USING ORGANIC PEROXIDE

Chaiane Neumann¹, Edson Francisquetti¹, Daiane Romanzini¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul

25_P2.47 A REVIEW ABOUT PLA FILAMENT RECLYCLING TO 3D PRINTING PROCESS

Eyji Koike Cuff¹, Caroline Ghidini Seben¹, Fernando Brito Gluck¹, Alexandre Luís Gasparin¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul

25_P2.48 FILAMENTS BASED TO BIODEGRADABLE POLYMER COATED WITH GELATIN METHACRYLOYL HYDROGEL FOR USE AS SUTURE BIOMATERIAL

Francisca Pereira de Araújo¹, Conceição de Maria Vaz Elias¹, Rômulo Ribeiro Magalhães de Sousa¹, Heurison Sousa Silva¹, Maria de Fátima Braga¹, Napoleão Martins Argolo Neto¹, Anderson Oliveira Lobo¹, JOSY ANTEVELI OSAJIMA¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí

25_P2.49 THERMAL PROPERTIES AND CRYSTALLIZATION BEHAVIOR OF DIFFERENT COMERCIAL PLA 3D PRINTING FILAMENTS

Gustavo Antoniácomi de Carvalho¹, Benjamim Melo Carvalho¹, Ariangelo Hauer Dias Filho^{2,1}; ¹Universidade Estadual de Ponta Grossa, ²Instituto Tecnológico de Aeronáutica

25_P2.50 EVALUATION OF THE USE OF RECYCLED PP FOR OBTAINING RIGID FOAM

Luis Paulo Bernardi¹, Edson Francisquetti², Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul

25_P2.51 INFLUENCE OF THE INCORPORATION OF STABILIZERS OR VIRGIN RESIN ON THE RECYCLED POLYPROPYLENE FROM COFFEE CAPSULES: THERMAL PROPERTIES

Renata dos Reis Klering¹, Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul

03 - Biomedical applications of polymers

25_P3.52 INFLUENCE OF THE EDB CO-INITIATOR ON COMPOUND RESIN COMMERCIALLY AVAILABLE.

Aline Cristina da Silva Tanaka¹, Giovanni Carvalho dos Santos¹, Rafael Turra Alarcon¹, Luiz Carlos da Silva Filho¹, Maria Cristina Rosifini Alves Rezende¹; ¹Universidade Estadual Paulista

25_P3.53 RELEASE KINETIC AND MOISTURE RESISTANCE OF ACTIVE ALGINATE-CARBOXY METHYLCELLULOSE-NANOCELLULOSE FILMS

Renato Poli Mari¹, Andrea Cristiane Krause Bierhalz¹; ¹Universidade Federal de Santa Catarina

25_P3.54 NATURAL RUBBER DEPROTEINIZED AND CHEMICALLY MODIFIED WITH HYALURONIC ACID FOR BIOMEDICAL APLICATIONS

Bruna Vanessa Quevedo Miranda¹, Lucas Camargo Soares Carvalho da Silva¹, Daniel Komatsu², Maira de Lourdes Rezende³, Eliana Aparecida de Rezende Duek²; ¹Universidade Federal de São Carlos - Campus Sorocaba, ²Pontifícia Universidade Católica de São Paulo, ³Faculdade de Tecnologia de Sorocaba

25_P3.55 INCORPORATION OF CLOVE OIL IN POLYPROPYLENE BY MELT EXTRUSION

Carolina Lipparelli Morelli¹, Aline Bruna da Silva², Danielle Marra de Freitas Silva Azevedo², Roberto Pedro dos Santos Junior³; ¹Universidade Federal de Pernambuco, ²Centro Federal de Educação Tecnológica de Minas Gerais, ³Universidade Federal de Itajubá

25_P3.56 ADDITION OF ANTIVIRAL AGENTS TO PLASTIC FILMS

JOSE WELLINGTON VASCONCELOS GUERRA¹, Yeda Medeiros Bastos de Almeida¹, Carolina Lipparelli Morelli¹; ¹Universidade Federal de Pernambuco

25_P3.57 MAGNETIC GELATIN/ALGINATE HYDROGELS FOR CAFFEINE RELEASE

Emilli Frachini¹, Jéssica Soares Guimarães Selva¹, Mauro Bertotti¹, Daniel Reinaldo Cornejo¹, Denise Freitas Siqueira Petri¹; ¹Universidade de São Paulo

25_P3.58 NANOFIBERS OF ZEIN CROSS-LINKED WITH GRAPHENE OXIDE FOR CONTROLLED CURCUMIN RELEASE

Gabriela Lauer Breitenbach¹, Edson Araujo de Almeida¹, Camila Dias de Oliveira², Douglas Cardoso Dragunski², Edvani Curti Muniz^{1,3,4}; ¹Universidade Estadual de Maringá, ²Universidade Estadual do Oeste do Paraná, ³Universidade Federal do Piauí, ⁴Universidade Tecnológica Federal do Paraná

25_P3.59 INVESTIGATION OF THE PHYSICOCHEMICAL PROPERTIES AND ANTIFUNGAL ACTIVITY OF POLYMERIC FILM CONTAINING 1.25% W/W OF POMEGRANATE PEEL EXTRACT

Geanne Aparecida de Paula¹, Nubya Nascimento Costa¹, Thais Martins Silva¹, Daiana Freitas Ferreira¹, Kamila Arêas Bastos¹, Lilian Gasparelli Carreira¹, Juliana Aparecida Severi¹, Rodrigo Lambert Oréface², Juliana Alves Resende¹, Janaina Cecília Oliveira Villanova¹; ¹Universidade Federal do Espírito Santo, ²Universidade Federal de Minas Gerais

25_P3.60 CHARACTERIZATION AND EVALUATION OF *IN VITRO* SKIN PERMEATION OF TACROLIMUS-LOADED POLY(ε-CAPROLACTONE) NANOCAPSULES

Guilherme dos Anjos Camargo¹, Leandro Ferreira¹, Jessica Mendes Nadal¹, Paulo Vitor Farago¹; ¹Universidade Estadual de Ponta Grossa

25_P3.61 CYTOTOXIC AND ANTIBACTERIAL ACTIVITY OF CHICHÁ GUM HYDROGEL ASSOCIATED WITH NEROLIDOL

Idglan Sá de Lima¹, Maria Onaira Gonçalves Ferreira¹, Albert Santos Silva¹, Alessandra Braga Ribeiro¹, Humberto Medeiros Barreto¹, Edvani Curti Muniz^{2,1,3}, Josy A. Osajima¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí, ²Universidade Estadual de Maringá, ³Universidade Tecnológica Federal do Paraná

25_P3.62 CHARACTERIZATION OF PCL FIBERS PRODUCED BY SOLUTION BLOW SPINNING WITH DIFFERENT SOLVENT SYSTEMS

Bruna Nunes Teixeira¹, Javier Mauricio Anaya Mancipe¹, Rossana Mara da Silva Moreira Thiré¹; ¹Universidade Federal do Rio de Janeiro

25_P3.63 ORODISPERSIBLE FILMS CONTAINING CHLORHEXIDINE DIGLUCONATE: CHARACTERIZATION BY FTIR, DRX AND THERMAL ANALYSIS

Renato Almeida Brambati¹, Geanne Aparecida de Paula¹, Alice Cristina Morgado Cassa¹, Janaina Cecília Oliveira Villanova¹, Lilian Gasparelli Carreira²; ¹Universidade Federal do Espírito Santo, ²UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO

25_P3.64 EVALUATION OF ANTIFUNGAL ACTIVITY AND CONTROLLED RELEASE OF KETOCONAZOLE INCORPORATED IN PMMA-G-PEG FILMS

Lucas Resende Dutra Sousa¹, Juliana Ribeiro Reynaldo¹, Tatiane Roquete Amparo¹, Paula Melo de Abreu Vieira¹, Gustavo Henrique Bianco de Souza¹, Luiz Fernando Medeiros Teixeira¹, Ana Paula Moreira Barboza¹, Bernardo Ruegger Almeida Neves², Katia Monteiro Novack¹, Viviane Martins Rebelo dos Santos¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais

25_P3.65 ENGINEERING POLY (VINYL ALCOHOL) NANOFIBERS LOADED WITH GREEN PROPOLIS EXTRACT, CHITOSAN AND NYSTATIN FOR PHARMACEUTICAL APPLICATIONS

Maria Sirlene Morais¹, Daniela P. Freire Bonfim², Mônica Lopes Aguiar², Wanderley Pereira Oliveira¹; ¹Universidade de São Paulo, ²Univerdade Federal de São Carlos

25_P3.66 THERMORESPONSIVE CELLULOSE NANOCRYSTALS: PROPERTIES IN CULTURE MEDIUM

Nívia do Nascimento Marques¹, José Aurélio Pinheiro¹, Maylla Maria Correia Leite Silva¹, Hugo Alexandre de Oliveira Rocha¹, Rosângela de Carvalho Balaban¹; ¹Universidade Federal do Rio Grande do Norte

25_P3.67 EVALUATION OF LIPID LEVELS IN INDUCED OBESITY RATS TREATED WITH PIPERINE MICROPARTICLES

Patrícia Bubna Biscaia¹, Dionízia Xavier Scomparin¹, Jessica Mendes Nadal¹, Paulo Vitor Farago¹; ¹Universidade Estadual de Ponta Grossa

25_P3.68 CHANGES IN THE NANOTOPOGRAPHY OF VANILLIN CROSSLINKED CHITOSAN FILMS VIA *IN-SITU* OR *EX-SITU* EMULSION POLYMERIZATION

Rafael Leonardo Cruz Gomes da Silva¹; ¹Universidade de São Paulo

25_P3.69 DEVELOPMENT OF BACTERIAL CELLULOSE MEMBRANES INCORPORATED WITH PLANT EXTRACTS

Sandro Rogério Kumineck Junior¹, Eduarda Zeni Neves¹, Graziéli Paulino Katrucha¹, Victoria Fonseca Silveira¹, Márcia Luciane Lange Silveira¹, Michele Cristina Formolo Garcia¹, Giannini Pasiznick Apati¹, Andrea Lima dos Santos Schneider¹, Ana Paula Testa Pezzin¹; ¹Universidade da Região de Joinville

25_P3.70 STUDY OF POLYMERS FOR THE DEVELOPMENT OF UPPER LIMB ORTHOSIS

Thiago Gonçalves de Oliveira¹; ¹Centro Universitário de Itajubá - FEPI

25_P3.71 ELECTRICAL AND MORPHOLOGICAL PROPERTIES OF ALIGNED PLGA/NTCS MATS FOR TISSUE ENGINEERING

Vanessa Oliveira Castro¹, Claudia Merlini¹; ¹Universidade Federal de Santa Catarina

25_P3.72 WET-SPUN CHITOSAN FILAMENTS: EFFECT OF POLYMER CONCENTRATION AND COAGULATION BATH COMPOSITION ON ABSORPTION PROPERTIES

Victor Fischer Missfeld¹, Andrea Cristiane Krause Bierhalz¹; ¹Universidade Federal de Santa Catarina

25_P3.73 BLOW-SPINNING OF AQUEOUS POLYMER SOLUTIONS AND ITS PRELIMINARY BIOLOGICAL EVALUATION

André de Oliveira Arruda¹, Leonardo Galli Engler¹, Lucas Dall Agnol¹, Natália Fontana Nicoletti¹, Fernanda Trindade Gonzalez Dias², Janete Eunice Zorzi¹, Otávio Bianchi³, ASDRÚBAL FALAVIGNA¹; ¹Universidade de Caxias do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ³Universidade Federal do Rio Grande do Sul

06 - Polymerization reactions and polymer chemistry

25_P6.74 CROSSLINKING OF POLY(VINYL ALCOHOL) WITH CITRIC ACID: INVESTIGATION OF THE INFLUENCE ON POLYMER PROPERTIES

Camila Suliani Raota¹, Juliana Zanol Merck¹, Joicelei Duarte¹, Janaina da Silva Crespo¹, Camila Baldasso¹, Marcelo Giovanela¹; ¹Universidade de Caxias do Sul

25_P6.75 SYNTHESIS AND CHARACTERIZATIONS OF PEG 4000 DERIVATIVES INCORPORATED WITH KETOCONAZOLE

Carolina Rodrigues Inácio¹, Viviane Martins Rebello dos Santos¹, Katia Monteiro Novack¹, Ana Paula Moreira Barboza¹, Bernardo Ruegger Almeida Neves²; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais

25_P6.76 THE USE OF GRAPE SEED OIL IN THE PRODUCTION OF TWO MONOMERS AND ONE COMPLETE RENEWABLE POLYMER

Caroline Gaglieri¹, Rafael Turra Alarcon¹, Raquel Magri¹, GILBERT BANNACH¹; ¹Universidade Estadual Paulista

25_P6.77 EFFECT OF IMIDAZOLE DERIVATIVES AS CATALYSTS IN THE POLYMERIZATION OF EPOXIDIZED WITH MALEINIZED GRAPE SEED OIL

Caroline Gaglieri¹, Rafael Turra Alarcon¹, Raquel Magri¹, GILBERT BANNACH¹; ¹Universidade Estadual Paulista

25_P6.78 PREPARATION OF THE POROUS STRUCTURES OF POLY(STYRENE-CO-DIVINYLBENZENE) MICROSPHERES MODIFIED WITH 2,4,6-TRIMERCAPTOTRIAZINE

Henrique Almeida Cunha¹, Marcos Antonio da Silva Costa¹, Daniela de Luna Martins²; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Federal Fluminense

25_P6.79 AMPHIPHILIC POLYMER POLI(E-CAPROLACTONE)-B-POLI(2-HYDROXYETHYL METHACRYLATE) SYNTHESIZED WITH CHOLESTEROL AS INICIATOR.

Juliana Rodrigues Isidoro¹, Vítor Hugo S. Ellwanger¹, Cesar Liberato Petzhold¹, Douglas Gamba¹; ¹Universidade Federal do Rio Grande do Sul

25_P6.80 STUDY OF THE PRODUCTION OF BIOLUBRICANT FROM EPOXIDIZED MORINGA OIL

Lara Cristina de Sousa¹, Gabriel Luis Oliveira do Carmo¹, Vitor Ferreira Galvão¹, Matheus Teixeira Araujo Silva¹, Iago Henrique Barros², Natã Carlos Lira Madeira^{3,2}, Katia Monteiro Novack⁴, Wanderson Romão⁵, Cristiane Medina Finzi-Quintão¹; ¹Universidade Federal de São João Del Rei, ²Universidade Federal do Espírito Santo, ³Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, ⁴Universidade Federal de Ouro Preto, ⁵UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO

25_P6.81 STABILITY OF NATURAL AND TREATED GREEN COCONUT FIBERS WHEN INCUBATED IN DIFFERENT REACTIONAL MEDIA

Jessica Silva de Almeida¹, Micael Jessé Paiva Ribeiro², Lara Isensee Saboya de Sousa¹, Matheus de Oliveira Barros¹, Veronica Maria de Araújo Calado³, Suely Pereira Freitas³, Morsyleide de Freitas Rosa⁴, Ana Iraidy Santa Brígida⁴; ¹Universidade Federal do Ceará, ²Instituto Federal de Educação, Ciência e Tecnologia do Ceará, ³Universidade Federal do Rio de Janeiro, ⁴Embrapa Agroindústria Tropical

25_P6.82 EVALUATION OF CROSSLINKED SULFONATED POLYMERS FOR REMOVAL OF AMMONIUM IONS

Luciana da Cunha Costa¹, Marcos Guidi Torquato¹, Ezaine Cristina Correa Torquato¹, Ana Carolina Lopes de Moraes¹, Fernanda de Andrade Buás Campeão¹, Rodrigo José França², Monica Regina da Costa Marques²; ¹Centro Universitário Estadual da Zona Oeste, ²Universidade do Estado do Rio de Janeiro

25_P6.83 CHEMICAL RECICLYING OF OILY SLUDE AND POLYOLEFINS BY CATALYTIC CO-PYROLYSIS INVOLVING CLAY K-10 FOR OBTAINING DIESEL OIL

Luciana da Cunha Costa¹, Ana Cristina da Silva Serra², Monica Regina da Costa Marques², Jacyra Guimarães Faillace³; ¹Centro Universitário Estadual da Zona Oeste, ²Universidade do Estado do Rio de Janeiro, ³Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro

25_P6.84 THERMAL PROPERTIES OF POLY(ACRYLONITRILE-CO-METHACRYLIC ACID) WITH DIFFERENT ACID COMONOMERS CONTENT

Luiz Guilherme Abreu de Paula¹, Geilza Alves Porto¹, Marcos Lopes Dias¹, Ednildo Alcantara Machado¹; ¹Universidade Federal do Rio de Janeiro

25_P6.85 THE SYNTHESIS OF CHLORINATED STARCH AND DERIVATE FROM OBTAINING PIRANOSYL RING OF THE MAIZ STARCH POLYMER

Mara Zeni Andrade^{1,2}, Roselaine³, Ana Maria Coulon Grisa³, Edson Francisquetti¹, Jonas Ludwig de Bitencourt¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ²Instituto Federal de educação ciencia e tecnologia, ³Universidade de Caxias do Sul

25_P6.86 STUDY OF THE MECHANISM OF CARDANOL POLYMERIZATION BY CATIONIC INITIATOR

Maximiliano de Freitas Martins¹, Thiago Muza Aversa², Carla Michele Frota da Silva¹, Elizabete Fernandes Lucas¹; ¹Universidade Federal do Rio de Janeiro, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro

25_P6.87 CASTOR OIL DERIVATIVES: A POTENTIAL APPLICATION AS BIOLUBRICANT

Paola Stradolini da Silva¹, Cesar Liberato Petzhold¹; ¹Universidade Federal do Rio Grande do Sul

25_P6.88 SYNTHESIS AND PHOTOPOLYMERIZATION OF AN ACRYLATED MACAW VEGETABLE OIL MONOMER

Rafael Turra Alarcon¹, Caroline Gaglieri¹, Raquel Magri¹, GILBERT BANNACH¹; ¹Universidade Estadual Paulista

25_P6.89 SYNTHESIS AND CHARACTERIZATION OF AM/AMPS/DMDAAC/AAC TETRAPOLYMER FOR APPLICATION IN DRILLING FLUID

Raíssa Ferreira Brasil¹, GRAZIELLE LOPES¹, Daniele Cristina de Amorim¹, Luciana S. Spinelli¹, Elen Vasques Pacheco¹; ¹Universidade Federal do Rio de Janeiro

25_P6.90 SYNTHESIS OF CITRIC ACID POLYMER

Raquel Magri¹, Rafael Turra Alarcon¹, Caroline Gaglieri¹, GILBERT BANNACH¹; ¹Universidade Estadual Paulista

25_P6.91 SYNTHESIS OF LUMINESCENT POLYMERS FROM BARU EPOXIDIZED VEGETABLE OIL AND FUMARIC ACID

Raquel Magri¹, Rafael Turra Alarcon¹, Caroline Gaglieri¹, GILBERT BANNACH¹; ¹Universidade Estadual Paulista

25_P6.92 LIGHT INDUCED METAL-FREE/ORGANOCATALYZED ATOM-TRANSFER RADICAL POLYMERIZATION OF METHYL METHACRYLATE: SIMULATION APPROACH

Ana Gabriela Belmonte Assalin¹, Ramon Alvarelli da Silva¹, Plínio Ribeiro Rodrigues¹, Roniérik Pioli Vieira¹; ¹Universidade Estadual de Campinas

25_P6.93 EXPERIMENTAL CONDITIONS OPTIMIZATION OF PDMAEMA SYNTHESIS FROM PHOTOINDUCED POLYMERIZATION

Sayeny de Ávila Gonçalves¹, Roniérik Pioli Vieira¹; ¹Universidade Estadual de Campinas

25_P6.94 PRODUCTION OF 'GREEN' THERMOPLASTIC POLYURETHANES FROM DECAMETHYLENE SEBACATE-CO-ISOSORBIDE COPOLYMERS

Sérgio Henrique Pezzin¹, Ângela Graziela Lechinski da Luz de Andrade¹; ¹Fundação Universidade do Estado de Santa Catarina

25_P6.95 SYNTHESIS AND EVALUATION OF IRON-BASED COMPLEX AS PHOTOINITIATOR FOR RADICAL PHOTOPOLYMERIZATION OF DENTAL RESINS

Talita Ferreira Cipriano¹, Alexandre Carneiro Silvino¹, Dayane Carvalho Ramos Salles de Oliveira²; ¹Universidade Federal do Rio de Janeiro, ²University of Florida

25_P6.96 SYNTHESIS OF POLYACRYLAMIDES MODIFIED WITH ALLYL GLUCOSE

Tatiane Rocha Montes D'Oca¹, Cesar Liberato Petzhold¹, Augusto C.C. Peres²; ¹Universidade Federal do Rio Grande do Sul, ²Centro de Pesquisas Leopoldo Américo Miguez de Mello

25_P6.97 STUDY OF CURING EXTENT OF DIFFERENT EPOXY SYSTEMS FOR PREPREGS APPLICATION

Vilson Dalla Libera Junior^{1,2}, Lincoln Araujo Teixeira¹, Mateus da Silva Batista¹, Sandra Maria da Luz¹; ¹Universidade de Brasília, ²Centro Universitário de Anápolis

25_P6.98 SYNTHESIS AND PHOTOINITIATION ACTION INVESTIGATION OF METACRYLATE QUINOLINE DERIVATIVES IN THE POLYMERIZATION OF MONOMERIC RESINS USED IN DENTAL BIOMATERIALS

Vitor Fernandes Moreno¹, Marcelo Henrique Ayala Gomes¹, Lucas Michelão Martins¹, Luiz Carlos da Silva Filho¹; ¹Universidade Estadual Paulista

TUESDAY, OCTOBER 26**SESSION 26_P4(17:00 - 18:30) - Poster02_04***04 - Polymer nanostructures and nanocomposites***26_P4.1 NATURAL GUM HYDROGELS NANOCOMPOSITES CONTAINING SILVER NANOPARTICLES**

Albert Santos Silva¹, Idglan Sá de Lima¹, Heldeney Rodrigues Sousa¹, Ariane Maria da Silva Santos Nascimento¹, Maria do Carmo de Carvalho Neta¹, Francisca Pereira de Araújo¹, Edvani Curti Muniz^{2,1,3}, JOSY ANTEVELI OSAJIMA¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí, ²Universidade Estadual de Maringá, ³Universidade Tecnológica Federal do Paraná

26_P4.2 NANOCELLULOSE OBTAINED FROM DYED AND BLEACHED COTTON FIBERS

Lucas Souza da Silva¹, Victor Kreuzfeld¹, Rita de Cássia Siqueira Curto Valle¹, Andrea Cristiane Krause Bierhalz¹; ¹Universidade Federal de Santa Catarina

26_P4.3 ENCAPSULATION OF CONCENTRATED GEOPROPOLIS EXTRACT IN PMMA NANOPARTICLES PRODUCED BY MINIEMULSION POLYMERIZATION

André Lourenço Nogueira¹, Thiago Schroeder da Silva², Fernando Humel Lafratta³; ¹Universidade da Região de Joinville, ²Universidade Federal de Santa Catarina, ³Fundação Universidade do Estado de Santa Catarina

26_P4.4 PMMA-CNC NANOCOMPOSITE PARTICLES PRODUCED *IN-SITU* BY SUSPENSION POLYMERIZATION

André Lourenço Nogueira¹, Jeniffer Katarine Wanzeler Fuckner¹, Ana Paula Testa Pezzin¹, Liliane Maria Ferrareso Lona², Filipe V. Ferreira³; ¹Universidade da Região de Joinville, ²UNIVERSIDADE ESTADUAL DE CAMPINAS, ³Universidade Estadual de Campinas

26_P4.5 ADSORPTION OF TOLUENE AND BENZENE FROM WATER USING AN HYDROGEL OF ALGINATE-GRAFTED WITH MESOPOROUS SÍLICA

André Ricardo Fajardo¹, Juliê Silveira da Costa¹, Emanuel G. Bertizollo¹, Daniela Bianchini¹; ¹Universidade Federal de Pelotas

26_P4.6 OBTENTION AND CHARACTERIZATION OF THIN AND NANOSTRUCTURED LAYER-BY-LAYER FILMS WITH APLICATION IN BACTERICIDAL MATERIALS.

Ariane Aparecida Vidal da Silva¹; ¹Pontifícia Universidade Católica do Paraná

26_P4.7 OPTIMIZATION AND CHARACTERIZATION OF ELECTROSPUN POLY (VINYL ALCOHOL) WITH DIFFERENT HYDROLYSIS DEGREE

Ariane Regina de Souza Rossin^{1,2}, Évelin Lemos de Oliveira¹, Fabiana Silva Lima¹, Heloisa Georgia Zanella¹, Josiane Caetano², Wilker Caetano¹, Douglas Cardoso Dragunski²; ¹Universidade Estadual de Maringá, ²Universidade Estadual do Oeste do Paraná

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Luana Góes Soares da Silva¹, Annelise Kopp Alves¹; ¹Universidade Federal do Rio Grande do Sul

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Marina Borsuk Fogaça¹, Thais Helena Sydenstricker Flores-Sahagun¹, Talita Szlapak Franco¹; ¹Universidade Federal do Paraná

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Ana Carolina Dias Silva¹, Francisco Moura Filho¹, Marcos Roberto de Abreu Alves¹, MERCES COELHO DA SILVA¹; ¹Universidade Federal de Itajubá

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Moyra Freitas Vieira¹, Gabriela C. M. Calisto¹, Celly M. S. Izumi¹; ¹Universidade Federal de Juiz de Fora

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Moyra Freitas Vieira¹, Celly M. S. Izumi¹; ¹Universidade Federal de Juiz de Fora

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Murilo Barbosa Valerio¹, Larissa Eduarda Gomes dos Santos¹, Ana Lúcia Nazareth da Silva¹, Leila Yone Reznik¹, Ladimir José de Carvalho¹; ¹Universidade Federal do Rio de Janeiro

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Daniela Eduarda Schneider¹, Murilo Lauer Sanson¹, Nei Sebastião Domingues Junior¹, Juliani Cappra da Silva¹; ¹Braskem S.A.

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Jones Luís Müller¹, Carlos Leonardo Pandolfo Carone¹, Daiana Cristina Metz Arnold¹, Adriana Teresinha da Silva Dutra¹, Fabricio Celso¹, Luciano Oliveira², Kelvyane Souza²; ¹Universidade Feevale, ²VALE S.A.

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26_P8.83 EFFECT OF COBALT (II) CATALYST ON THE DRYING PROPERTY OF CHIA AND LINSEED OILS USED AS HEALING AGENTS FOR SELF-HEALING COATINGS

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26_P8.84 MORPHOLOGICAL CHARACTERIZATION OF THE SURFACE OF CHLOROBUTYL RUBBER SUBMITTED TO SIMULATED DEGRADATION ENVIRONMENTS IN A PIGMENT INDUSTRY

Moisés Henrique Moreira Santos¹, Joyce Batista Azevedo², Pollyana da Silva Melo¹, Josiane Dantas Viana Barbosa¹; ¹Faculdade de Tecnologia Senai Cimatec, ²Universidade Federal da Bahia

26_P8.85 RHEOLOGICAL PROPERTIES OF HYDROPHOBICALLY MODIFIED CARBOXYMETHYLCELLULOSE

Nívia do Nascimento Marques¹, Bruna Luiza Batista de Lima¹, Elessandre Alves de Souza², Rosangela de Carvalho Balaban¹; ¹Universidade Federal do Rio Grande do Norte, ²Centro de Pesquisas Leopoldo Américo Miguez de Mello

26_P8.86 ENZYME ACTIVITY OF UREA BIOSENSOR BASED OF THIOPHENE-FLUORENE COPOLYMER BLENDED WITH UREASE IN THIN FILMS

Rebeca da Rocha Rodrigues¹, Tamires Pedrali de Aquino¹, Luciano Caseli¹, Laura Oliveira Péres¹; ¹Universidade Federal de São Paulo

26_P8.87 POLYMERIC SYSTEM OF STARCH/CHITOSAN ADDED WITH UREA AS CONTROLLED-RELEASE NITROGEN FERTILIZER

Renata Herrera Brandelero¹, EVANDRO MARTIN BRANDELRO¹, Gabriela Paulina Herrera Brandelero²; ¹Universidade Tecnológica Federal do Paraná, ²Faculdade de Direito Francisco Beltrão

26_P8.88 FILMS OF CALCIUM ALGINATE AND POLYETHYLENE GLYCOL FOR CO₂/N₂ SEPARATION

Ana Paula Benevides¹, Rodrigo Azevedo Reis¹, Alene Dutra Nascimento¹, Ivana Lourenço de Mello Ferreira¹; ¹Universidade do Estado do Rio de Janeiro

26_P8.89 MACROFUNGI MYCELIA AS A RESOURCE FOR THE DEVELOPMENT OF ADVANCED BIOMATERIALS – SUBSTRATE EVALUATION FOR DEVELOPMENT AND MECHANICAL PROPERTIES OF MYCOMATERIAL

Rosmary Nichele Brandalise¹, Bruna Pertile¹, Roselei Fontana¹, Marli Camassola¹; ¹Universidade de Caxias do Sul

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Mateus Henrique Ramos Barbosa¹, Sayeny de Ávila Gonçalves¹, Roniérik Pioli Vieira¹; ¹Universidade Estadual de Campinas

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Silvana Pereira Rempel¹, Gustavo Sganzerla Martinez², Cássia Virginia de Oliveira¹, Scheila de Avila e Silva², Otávio Bianchi¹; ¹Universidade Federal do Rio Grande do Sul, ²Universidade de Caxias do Sul

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Thaynara Brasil Felizardo¹, Bruno José Arcanjo Gonçalves¹, Kátia Cecília de Souza Figueiredo¹; ¹Universidade Federal de Minas Gerais

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Thaynara Brasil Felizardo¹, Bruno José Arcanjo Gonçalves¹, Kátia Cecília de Souza Figueiredo¹; ¹Universidade Federal de Minas Gerais

26_P8.94 DEVELOPMENT OF SODIUM ALGINATE FILMS RETICULATED WITH CALCIUM CHLORIDE USED IN THE CONSERVATION OF APPLES

Vinícius André de Jesus Pires¹, Maira de Lourdes Rezende¹; ¹Faculdade de Tecnologia de Sorocaba

26_P8.95 STUDY OF ADSORPTIVE CAPACITY OF COMMERCIAL LUBRICANTS IN POLYURETHANE FOAM: A REVIEW

Vitor Ferreira Galvão¹, Gabriel Luis Oliveira do Carmo¹, Lara Cristina de Sousa¹, Matheus Teixeira Araujo Silva¹, Cristiane Medina Finzi-Quintão¹, Katia Monteiro Novack²; ¹Universidade Federal de São João Del Rei, ²Universidade Federal de Ouro Preto

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27_P5.1 INFLUENCE OF NANOPARTICLES INCORPORATION ON THE MECHANICAL AND THERMAL PROPERTIES OF PA6/IONOMER SCRAPS BLEND

Roberto Alves Taveira Jr.¹, Adriana Martinelli Catelli Souza¹; ¹Centro Universitário da Fundação Educacional Inaciana Pe Sabóia de Medeiros

27_P5.2 CHARACTERIZATION OF THE GLASS TRANSITION TEMPERATURE OF NITROCELLULOSE BLENDS IN FILM FORM BY DMA-MATERIAL POCKET

Aislana Cole de Paula¹, Fabrício Uliana¹, Eloi Alves da Silva Filho¹, Kinglston Soares², Priscilla Paiva Luz¹; ¹UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO, ²Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

27_P5.3 INVESTIGATION ON EFFECTS OF NON HALOGENATED ORGANIC PHOSPHINATES ON THERMAL PROPERTIES AND FLAME RETARDANCY OF GLASS FIBER REINFORCED POLYAMIDE 6.6 COMPOSITE

Alexandre Menezes Steffani¹, Edson Francisquetti¹, Eveline Bischoff¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul

27_P5.4 CHARACTERIZATIONS OF NON HALOGENATED ORGANIC PHOSPHINATES COMPOUNDS FLAME RETARDANT GLASS FIBER REINFORCED POLYAMIDE 6.0 COMPOSITE

Edson Francisquetti¹, Alexandre Menezes Steffani¹, Rosmary Nichele Brandalise², Ana Maria Coulon Grisa¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ²Universidade de Caxias do Sul

27_P5.5 PRELIMINARY STUDY ON THE EFFECT OF AIR ENTRAPMENT REDUCER AND CURING TEMPERATURE ON POLYESTER/AGGREGATE COMPOUNDS

Joyce Batista Azevedo¹, Amanda Dantas², Josiane Dantas Viana Barbosa², Marcelo de Sousa Carvalho²; ¹Universidade Federal da Bahia, ²Faculdade de Tecnologia Senai Cimatec

27_P5.6 STUDY OF THE MECHANICAL PROPERTIES OF SUSTAINABLE COMPOSITES REINFORCED WITH CALCIUM CARBONATE EXTRACTED FROM EGG SHELLS

Kássia Peçanha Vieira¹, Alexandra Augusta Reichert¹, Gabriel Monteiro Cholant¹, Cesar Augusto Gonçalves Beatrice², Amanda Dantas Oliveira¹; ¹Universidade Federal de Pelotas, ²Univerdade Federal de São Carlos

27_P5.7 EVALUATION OF THE MECHANICAL PROPERTIES OF BIODEGRADABLE FILMS BASED ON CORN STARCH REINFORCED WITH CELLULOSE

Alexandra Augusta Reichert¹, Mariana Ribas de Sá¹, Thales Castilhos de Freitas², José Henrique Alano³, Amanda Dantas Oliveira¹; ¹Universidade Federal de Pelotas, ²Universidade Federal de Juiz de Fora, ³Universidade Federal do Rio Grande

27_P5.8 BIODEGRADATION OF COMPOSITES BASED ON THERMOPLASTIC STARCH AND KRAFT LIGNIN, AIMING AT APPLICATIONS IN CONTROLLED-RELEASE FERTILIZER

Amanda de Sousa Martinez de Freitas¹, Jéssica Souza Rodrigues², Cristiane Carla Maciel³, Ariane Aparecida F. Pires², Vagner Roberto Botaro², Marystela Ferreira², Ana Paula Lemes¹; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos - Campus Sorocaba, ³Universidade Estadual Paulista

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Ana Carolina Salgado Oliveira¹, Raíssa Alvarenga Carvalho Gomide¹, Alfredo Rodrigues de Sena Neto¹, Julio Cesar Ugucioni¹, Soraia Vilela Borges¹; ¹Universidade Federal de Lavras

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Laura Fonseca Ferreira¹, Ana Carolina Salgado Oliveira¹, Jayne de Abreu Figueiredo¹, Alfredo Rodrigues de Sena Neto¹, Soraia Vilela Borges¹, Marali Vilela Dias¹; ¹Universidade Federal de Lavras

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Ana Clara Lancarovici Alves¹, Antonio José Felix Carvalho¹; ¹Universidade de São Paulo

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André Ricardo Fajardo¹, Rafael Fonseca Neves Quadrado¹; ¹Universidade Federal de Pelotas

27_P5.13 COUNTER-ION, VOLTAGE AND HUMIDITY INFLUENCE ON BACK-RELAXATION PHENOMENON IN IPMC FILM BASED ON NAFION®/PT

Ariel Zuquello¹, Matheus Colovati Saccardo¹, Kaique Afonso Tozzi¹, Roger Gonçalves¹, Rafael Barbosa¹, Carlos Henrique Scuracchio¹; ¹Univerdade Federal de São Carlos

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Bárbara Stefany Silva¹, Paula Sibeli Celestino da Silva¹, André Luis Simões Andrade², Daniela L. A. C. S Andrade¹; ¹Universidade Federal Rural de Pernambuco, ²Faculdade Maurício de Nassau

27_P5.15 CHITOSAN / MONTMORILONITE MEMBRANES: CHARACTERIZATION OF THE EFFECT OF THE LOAD CONTENT ON THE PREPARATION OF BIOFILMS

Bárbara Stefany Silva¹, Paula Sibeli Celestino da Silva¹, Izarelli S. Duarte², André Luis Simões Andrade³, Daniela L. A. C. S Andrade¹; ¹Universidade Federal Rural de Pernambuco, ²Universidade Federal de Pernambuco, ³Faculdade Maurício de Nassau

27_P5.16 COMPATIBILIZATION OF EPOXY RESIN WITH LIQUID CARBOXYLATED ISOPRENE ELASTOMER

Caio Rosemberg Fonseca do Nascimento^{1,2}, Bluma Guenther Soares¹; ¹Instituto de Macromoléculas Professora Eloisa Mano, ²Instituto Nacional de Tecnologia

27_P5.17 ANALYSIS OF CHEMICALLY TREATED NEWSPAPER FIBERS FOR USE AS COMPOSITE REINFORCEMENT

Cécile Chaves Hernandez¹, Iris Joana Santana²; ¹Universidade Federal de São Carlos - Campus Sorocaba, ²Faculdade de Tecnologia de Sorocaba

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Cécile Chaves Hernandez¹, Iris Joana Santana²; ¹Universidade Federal de São Carlos - Campus Sorocaba, ²Faculdade de Tecnologia de Sorocaba

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Cristiano Baierle de Azevedo¹, José Humberto Santos Almeida Júnior², Tales de Vargas Lisboa³, Axel Spickenheuer³, Leonardo Guilherme Scherer¹, Sandro Campos Amico¹; ¹Universidade Federal do Rio Grande do Sul, ²Aalto University / Aalto-yliopisto, ³Leibniz Institute of Polymer Research

27_P5.20 INFLUENCE OF CARBON NANOTUBES COATED WITH POLYANILINE ON THE ELECTRICAL, MECHANICAL AND THERMAL PROPERTIES IN CO-CONTINUOUS POLYSTYRENE/POLY (METHYL METHACRYLATE) BLEND

Daniel Felipe Pietezak¹, Carla Dalmolin¹, Daniela Becker¹, Fabio Andres Silva Vega¹; ¹Fundação Universidade do Estado de Santa Catarina

27_P5.21 INFLUENCE OF LASER WELDING ON THE MECHANICAL AND STRUCTURAL PROPERTIES OF PA6/LLDPE BLEND-BASED CARBON BLACK NANOCOMPOSITE

Denis Angelo da Silva¹, Erick Gabriel Ribeiro dos Anjos^{1,2}, Guilherme Ferreira de Melo Morgado¹, Aline Capella de Oliveira¹, Fábio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Univerdade Federal de São Carlos

27_P5.22 CHARACTERIZATION OF THE TPS/PBAT BLENDS IRRADIATED BY IONIZING RADIATION

Dione Pereira de Castro¹, Leonardo Gondim de Andrade Silva¹; ¹Instituto de Pesquisas Energéticas e Nucleares

27_P5.23 FLEXIBLE COMPOSITES BASED ON THERMOSETTING RESINS AND LIGNOCELLULOSIC FIBERS

Edivane da Silva Araujo Cardoso¹, Elen Vasques Pacheco¹; ¹Universidade Federal do Rio de Janeiro

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Emanoelle Maria Santos Chiromito¹, Antonio José Felix Carvalho¹; ¹Universidade de São Paulo

27_P5.25 EFFECT OF RECYCLED GRAPHITE AS AN ANTISTATIC AGENT ON THERMAL PROPERTIES AND ELECTRICAL RESISTIVITY OF POLI (TRIMETHYLENE TEREPHTHALATE)

Henrique Morales Zaggo¹, Erick Gabriel Ribeiro dos Anjos^{1,2}, Natália Ferreira Braga¹, Fábio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Univerdade Federal de São Carlos

27_P5.26 INFLUENCE OF THE TRIBLOC COPOLYMER PEG-B-PPG-B-PEG ON THE MECHANICAL AND THERMAL PROPERTIES OF A RESIN

Fernanda Ana Carraro Boaretto¹; ¹Fundação Universidade do Estado de Santa Catarina

27_P5.27 ADDITION OF MICROALGAL BIOMASS CULTURED IN TREATED WASTEWATER AS BIOPOLYMER INN A PLA MATRIX

Fernanda Ochner de Souza¹, Daniela Becker¹, Fábio de Faria Neves¹; ¹Fundação Universidade do Estado de Santa Catarina

27_P5.28 A HYBRID RECYCLED POLYPROPYLENE/DIMENSION STONE WASTE/COCONUT FIBER COMPOSITE

Gabriella Neto Chagas¹, Maiccon Martins Barros¹, Ariadne Gonçalves de Leão², Roberto Carlos da Conceição Ribeiro¹, Daniele Cruz Bastos³; ¹Centro de Tecnologia Mineral, ²Universidade Federal do Rio de Janeiro, ³Centro Universitário Estadual da Zona Oeste

27_P5.29 EFFECT OF THE RESIDUAL SURFACTANTS OF EMULSION MADE ABS COPOLYMERS ON THE MORPHOLOGY AND MECHANICAL PROPERTIES OF PBT/ABS BLENDS

Gerson Luiz Mantovani¹, Luiz Antonio Pessan², ELIAS HAGE JUNIOR²; ¹Universidade Federal do ABC, ²Univerdade Federal de São Carlos

27_P5.30 ACTIVE PACKAGING OF SODIUM ALGINATE INCORPORATED WITH EXTRACTS FROM DIFFERENT PARTS OF THE MACAÚBA (*ACROCOMIA ACULEATE*) FRUIT

Gisele Fernanda Alves da Silva¹, Viviane Patrícia Romani², Vilásia Guimarães Martins¹; ¹Universidade Federal do Rio Grande, ²Universidade Estadual do Centro Oeste

27_P5.31 POLYSULFONE/CHITOSAN MEMBRANES WITH INORGANIC NANOPARTICLES

Eliane Soares da Silva¹, Felipe Silva Bellucci², Marcos Antonio Polinarski¹, Glaucia Regina Medeiros Burin¹, Graciela Ines Bolzon de Muniz¹, Helton José Alves¹; ¹Universidade Federal do Paraná, ²Ministério da Ciência, Tecnologia e Inovações

27_P5.32 EVALUATION OF SHAPE MEMORY IN POLY(LACTIC ACID)/THERMOPLASTIC POLYURETHANE BLENDS

Guilherme Ferreira de Melo Morgado¹, Nayara Koba de Moura¹, Eduardo Ferreira Martins¹, Fábio Roberto Passador¹; ¹Universidade Federal de São Paulo

27_P5.33 EVALUATION OF THE PHYSICAL AND MORPHOLOGICAL PROPERTIES OF MEDIUM DENSITY PARTICLEBOARDS REINFORCED WITH BURITI RESIDUE (*MAURITIA FLEXUOSA*)

Hannah Alagoas Litaiff¹, Bianca Ribeiro Hagino Macena¹, Gabrielle Machado Dos Santos¹, Virginia Mansanares Giacón¹; ¹Universidade Federal do Amazonas

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Marcus Vinicius Alves Barros¹, Hemilly Cirqueira Martins¹, Keila Cardoso Teixeira¹, Laene da Silva Santos¹, Ana Maria da Silva Maia¹; ¹Fundação Universidade Federal do Tocantins

27_P5.35 NOVEL BIOPOLYMERIC FILMS WITH NATURAL ANTIOXIDANT SOURCE AS PROMISING SYSTEMS FOR DERMATOLOGICAL APPLICATION

Beatriz Marjorie Marim¹, Jéssica Fernanda Pereira¹, Suzana Mali¹, Audrey S. Garcia Lonni¹; ¹Universidade estadual de Londrina

27_P5.36 EVALUATION OF A CROSS-LINKING AGENT IN THE PREPARATION OF FILMS BASED ON PECTIN AND CHITOSANE FOR FOOD PACKING APPLICATIONS

José Luis Rivera-Armenta¹, MARGARITA MARIA SALDIVAR GUEVARA¹, VERONICA SAUCEDO RIVALCOBA¹; ¹TECNOLOGICO NACIONAL DE MEXICO

27_P5.37 POLYESTER/SISAL COMPOSITES FOR APPLICATION AS A CLADDING ELEMENT

Josiane Dantas Viana¹, Lorrane Carneiro Laranjeira Silva², Matheus Vinicius Falcão Morreira², Daniel Vianna Goes Araujo¹, Joyce Batista Azevedo³, Pollyana da Silva Melo¹; ¹Faculdade de Tecnologia Senai Cimatec, ²Universidade Federal do Recôncavo da Bahia, ³Universidade Federal da Bahia

27_P5.38 PREPARATION OF PSYLLIUM MUCILAGE AND SODIUM ALGINATE HYDROGEL FOR BIOMEDICAL APPLICATIONS

Kainan Akio Weege¹, Andrea Cristiane Krause Bierhalz¹, Antonio Augusto de Souza¹, Ana Paula Immich¹; ¹Universidade Federal de Santa Catarina

27_P5.39 BIOPOLYMERIC FILMS OF WHEY PROTEIN ISOLATE/LIGNIN AND ITS APPLICATION AS A UV BLOCKER FOR FOOD PACKAGING.

Karoline Ferreira e Silva¹, Anderson de Freitas Junior¹, Marali Vilela Dias¹, Fábio Akira Mori¹; ¹Universidade Federal de Lavras

27_P5.40 THERMAL AND MECHANICAL PROPERTIES OF JUTE FIBER

Kelvin Masakazu Kuroki Iwasaki¹, Ricardo de Medeiros¹, Daniela Becker¹; ¹Fundação Universidade do Estado de Santa Catarina

27_P5.41 WATER SORPTION PROPERTIES OF SOY PROTEIN/CASSAVA STARCH/CAMU-CAMU MICROPARTICULES BLENDS

Laura Fonseca Ferreira¹, Jayne de Abreu Figueiredo¹, Soraia Vilela Borges¹, Alfredo Rodrigues de Sena Neto¹, Marali Vilela Dias¹; ¹Universidade Federal de Lavras

27_P5.42 PERFORMANCE AND BIODEGRADATION OF PCL/TPS/VEGETABLE FIBER BLENDS

Laura Hecker de Carvalho¹, José Adelmo Gama Neto¹, Mario Alberto de Albuquerque Filho¹; ¹Universidade Federal de Campina Grande

27_P5.43 WATER ABSORPTION KINETICS IN POLYESTER/GLASS/JUTE FIBER HYBRID COMPOSITES

Laura Hecker de Carvalho¹, Mario Alberto de Albuquerque Filho¹, Rudá Aranha¹; ¹Universidade Federal de Campina Grande

27_P5.44 CHARACTERIZATION OF AÇAÍ (*EUTERPE OLERACEA* MART.) FIBER AND ITS POTENTIAL FOR THE DEVELOPMENT OF COMPOSITES MATERIALS

Lauro Arthur Farias Paiva Cohen¹, Elisa Batista Conrado Martins¹, MERCES COELHO DA SILVA², Nubia Suely Silva Santos³, Eliane Ayres¹; ¹Universidade do Estado de Minas Gerais, ²Universidade Federal de Itajubá, ³Universidade do Estado do Pará

27_P5.45 EVALUATION OF THE EFFECT OF CITRIC ACID ON THE CROSSLINKING OF PVA THROUGH SWELLING AND THERMAL ANALYSES

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27_P5.46 EVALUATION OF POLYAMIDE 6.6 BLENDS WITH MULTI-LAYER FILMS POST-CONSUMPTION FROM FOOD PACKAGES

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27_P5.47 INFLUENCE OF SONICATION TIME ON THE PROPERTIES OF EPOXY RESIN

Roberta Motta Neves¹, Lídia Kunz Lazzari¹, Ademir José Zattera², Sandro Campos Amico¹; ¹Universidade Federal do Rio Grande do Sul, ²Universidade de Caxias do Sul

27_P5.48 POLY(LACTIC ACID) / YERBA MATE COMPOSITES: INFLUENCE OF GRANULOMETRY ON THERMAL AND MECHANICAL PROPERTIES

Magali Canton Casagrande¹, Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul

27_P5.49 EFFECT OF MICROFIBRILLATED CELLULOSE MIXING SEQUENCES ON POLY(LACTIC ACID)/POLY(E-CAPROLACTONE) BLEND MORPHOLOGY

Marcelo Aparecido Chinelatto¹, Paula do Patrocínio Dias¹; ¹Universidade de São Paulo

27_P5.50 INFLUENCE OF PHYSICAL COMPATIBILIZATION WITH MULTIBLOCK COPOLYMERS OF PEG/PCL ON THE MECHANICAL PROPERTIES OF PLA/PCL BLENDS

Lucas Henrique Staffa¹, Sílvia Helena Prado Bettini², Marcelo Aparecido Chinelatto¹; ¹Universidade de São Paulo, ²Univerdade Federal de São Carlos

27_P5.51 MORPHOLOGICAL AND SPECTROSCOPIC CHARACTERISTICS OF COLLAGEN AND CHITOSAN MATRICES

Mariana Chiocheta Bueno¹, Patricia Teixeira Marques¹, Antonio Guilherme Pereira¹; ¹Universidade Tecnológica Federal do Paraná

27_P5.52 INFLUENCE OF COMPOSITION AND PREPARATION METHOD ON THE MECHANICAL PROPERTIES OF CORNSTARCH / BREWER'S SPENT GRAIN COMPOSITES

Karen de Souza do Prado¹, Maria Natália Castanho¹, Jane Maria Faulstich de Paiva¹; ¹Universidade Federal de São Carlos - Campus Sorocaba

27_P5.53 INFLUENCE OF POLYPROPYLENE RANDOM COPOLYMER IN MECHANICAL PROPERTIES OF STRETCH WRAP FILMS

Matheus Borlino Lotumolo¹, Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul

27_P5.54 DEVELOPMENT OF POLYESTER/FIBER GLASS COMPOSITE WITH FOUNDRY SAND

Matheus Vinicius Gregory Zimmermann¹, André Luis Catto², Cleide Borsoi²; ¹Universidade do Extremo Sul Catarinense, ²Centro Universitário Univates

27_P5.55 RECYCLING OF CARBON FIBER EPOXY PREPREG BY THERMAL TREATMENT

Meire Noriko Hosokawa¹, Jane Maria Faulstich de Paiva¹; ¹Universidade Federal de São Carlos - Campus Sorocaba

27_P5.56 ANALYSIS OF THE EFFECT OF HYDROTHERMAL TREATMENT ON FIBERS OF *COCOS NUCIFERA* L. FOR USE IN POLYURETHANE BIOCOMPOSITES

Mayara de Oliveira Camillo¹, André Cometti de Souza², Bárbara Maria Mateus Gonçalves¹, Eduarda Chiabai Rodrigues de Melo¹, Poliana Dariva Menini¹, Paulo Roberto Correia Marcelino¹, Nayara Soares Satolo¹, Sara Medeiros de Almeida¹, Michel Picanço Oliveira¹; ¹UNIVERSIDADE FEDERAL DO ESPÍRITO SANTO, ²Universidade Federal do Espírito Santo

27_P5.57 MECHANICAL AND MORPHOLOGICAL PROPERTIES OF POLY(E-CAPROLACTONE) AND WAXY THERMOPLASTIC STARCH BLENDS OBTAINED BY HIGH-SHEAR EXTRUSION

Gerson Luiz Mantovani¹, Anderson Felix Manoel¹, Pedro Ivo Cunha Claro², Luiz Henrique Capparelli Mattoso³, José Manoel Marconcini³; ¹Universidade Federal do ABC, ²Univerdade Federal de São Carlos, ³Embrapa Instrumentação

27_P5.58 EFFECT OF SEPIOLITE AND TITANIUM DIOXIDE ADDITION IN LOW-DENSITY POLYETHYLENE PROPERTIES

Priscila da Silva e Souza^{1,2}, Ana Lúcia Nazareth da Silva¹, Ana Maria Furtado de Sousa³; ¹Universidade Federal do Rio de Janeiro, ²- Instituto de Macromoléculas Professora Eloisa Mano (IMA), Universidade Federal do Rio de Janeiro (UFRJ), ³Universidade do Estado do Rio de Janeiro

27_P5.59 PERFORMANCE OF PEG-B-PPG-B-PEG COPOLYMER IN THERMAL ANALYSIS OF EPOXY RESIN

Renan Gottardi Bin¹; ¹Fundação Universidade do Estado de Santa Catarina

27_P5.60 CHEMICAL TREATMENT OF COCONUT FIBER AND ITS COMPOSITE

Renan Henriques Gonçalves de Almeida¹, Teresa Maria Dias Fernandes², Ana Lúcia Nazareth da Silva², Elen Vasques Pacheco², Ana Maria Furtado de Sousa³; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro, ²Universidade Federal do Rio de Janeiro, ³Universidade do Estado do Rio de Janeiro

27_P5.61 PROTON EXCHANGE MEMBRANES BASED ON SODIUM ALGINATE DOPED WITH BIS(HYDROXYETHYL)AMMONIUM ACETATE

Rodrigo Azevedo Reis¹, Alene Dutra Nascimento¹, Lilian Ferreira de Senna¹, Silvana Mattedi²; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Federal da Bahia

27_P5.62 CARBON FIBER REINFORCED POLY(METHYL METHACRYLATE) COMPOSITES WITH HEALABLE INTERFACES CONTAINING QUANTUM CARBON DOTS

Érica Correia Duarte¹, Rodrigo Lambert Oréface¹; ¹Universidade Federal de Minas Gerais

27_P5.63 INFLUENCE OF GELATIN CONTENT IN BLENDS WITH STARCH EXTRACTED FROM POTATO SKINS

Samara Dias Osorio¹, Ruth Marlene Campomanes Santana¹; ¹Universidade Federal do Rio Grande do Sul

27_P5.64 EFFECTS OF REPROCESSING CYCLES ON THE THERMAL DEGRADATION OF ABS/HIPS RECYCLED BLENDS

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