

**PPS-30 Poster Presentation Schedule**  
**Room: Exhibit Hall**

Symposium	Monday, June 9, 2014		Tuesday, June 10, 2014		Wednesday, June 11, 2014	
	9:30-10:10 AM	4:00 – 4:40 PM	9:30-10:10 AM	4:00 – 4:40 PM	9:30-10:10 AM	4:00 – 4:40 PM
S01 - Mixing and Compounding						Group VI
S02 - Polymer Blends and Alloys	Group I					
S03 - Foams						Group VI
S04 - Modeling and Simulation	Group I					
S05 - Composites			Group III			
S06 - Nanocomposites		Group II	Group III			
S07 - Fibers and Films					Group V	
S08 - Reactive Processing					Group V	
S09 - Extrusion and Extrusion Processes					Group V	
S10 - Injection Molding				Group IV		
S11 - Elastomer Materials and Processing						Group VI
S12 - Aerogels						Group VI
S13 - Material Technologies for Energy						Group VI
S14 - Material Technologies for Sustainability				Group IV		
S15 - Additive Manufacturing	Group I					
S16 - Rheology and Rheometry				Group IV		
S17 - Fire Science and Engineering					Group V	

## Poster List

Monday, June 9, 9:30-10:10 AM

Venue: Exhibit Hall

### Group I: S02: Polymer Blends and Alloys

S02-110	Miscibility Characterization and Thermal Curing of Genistein Modified Epoxidized Soybean Oil and Poly(vinyl chloride) Blends for Biomedical Applications <b>Chang Teng, Buddhiranon Sasiwimon , DeFine Linda, Alexander Thomas , Kyu Thein</b>
S02--13	Rheology and stability of asphalt/polyethylene blends <b>Vargas Maria</b>
S02-169	Self-Reinforced Polyethylene Blend for Artificial Joint Application <b>Huang Yan-Fei , Li Zhong-Ming, Xu Ling</b>
S02--18	Preparation and Properties of Monomer casting Nylon-6/PEO blend prepared via in-situ polymerization <b>Xu Sheng, Ye Lin</b>
S02-218	Study of Compatibilization of Semi-Aromatic Polysulfide Amide on PPS/PA6 <b>Zhang Gang, Liu Jia, Li Dong-sheng, Long Sheng-ru, Wang Xiao-jun, Yang Jie</b>
S02-224	Flow Ability and Mechanical Properties of PC/copolyester Blends <b>Ruchirased Sudaporn, Manuspiya Hathaikarn, Yuenyogwatta nakorn Jintana</b>
S02-236	Partially miscible blend of Polycarbonate/copolyester Blends <b>Chaiyong Duengdean, Manuspiya Hathaikarn</b>
S02-238	Toughening of Biodegradable Polylactide Blends using in situ Reactive Compatibilization <b>Sinha Ray Suprakas, Ojijo Vincent</b>
S02-253	New Olefinic Thermo Stimulative Shape Memory on the base of EOC/COC <b>Sabbagh Alireza, Mehranpur Milad, Nazockdast Hossien</b>
S02-258	Effect of Biopolyethylene content on the mechanical properties and morphology of Poly (lactic acid)/Biopolyethylene blend <b>Agrawal Pankaj , Araújo Aylanna Priscila Marques, Brito Gustavo Figueiredo, Cavalcanti Shirley Nobrega, Alves Amanda Maciel, Mélo Tomás Jeferson Alves</b>
S02-279	Polypropylene Blends for Raffia Tapes with Improved Toughness <b>Lotti Cybele, Bulhões Carolina Cerqueira, Campbell Richard A</b>
S02-284	Polymer Systems and Molding Techniques for General Surgery Training Models <b>Park Daniel James, Hrymak Andrew N, Millon Leonardo E</b>
S02-299	The effect of water absorption on the viscoelastic properties of poly(styrene-block-isobutylene-block-styrene) for use in biomedical applications <b>Fittipaldi Mauro, Rodriguez Luis Alberto, Grace Landon R.</b>
S02-395	Multilayered Confinement of iPP/TPOSS and Nylon 6/APOSS Blends (Oral) <b>Herbert Matthew M., Schiraldi David A.</b>
S02-397	Biobased Poly(lactides) / Poly(methyl methacrylate) blends : from a shear-induced miscibility to heat-resistant Stereocomplexable Formulations <b>Samuel Cedric, Raquez Jean-Marie, Dubois Philippe</b>
S02-402	Dual and Multiple-Shape memory effects in miscible PLLA/PMMA blends <b>Samuel Cedric, Barrau Sophie, Stoclet Gregory, Lefebvre Jean-Marc, Raquez Jean-Marie, Dunois Philippe</b>
S02-464	Influence of MWNTs on the morphology and electrical conductivity in PE/PEO blends <b>Mural Prasanna, Kumar S, Madras Giridhar, Bose Suryasarathi</b>
S02-482	Mechanical and termomechanical properties of polystyrene/compound by recycled rubber blends <b>Silva Divânia Ferreira, Araújo Edcleide Maria, Luna Carlos Bruno Barreto, Basílio Sabrina Kelly Trajano, Melo Tomás Jeferson Alves</b>
S02-529	New Bulk Ring Opening Polymerization of $\epsilon$ -Caprolactone with Ionic Liquid as Catalyst <b>Raihane Mustapha, Kaoukabi Asmae, Guillen Frédéric , Qayouh Hicham, Belachemi Larbi, Gouhier Géraldine</b>
S02-530	Thermal properties of fluorinated acrylate (co)polymers <b>Raihane Mustapha, Atlas Salima, Hult Anders, Ameduri Bruno, Lahcini Mohammed</b>
S02-538	Mechanical and Rheological Properties of Quaternary Blends of PS/HIPS Obtained by Extrusion <b>Cavalcante Juliana De Paula, Braga Kezia Lisboa, Cavalcante Andre De Paula, Furtado Cristina Russi Guimarães, De Sousa Ana Maria Furtado, Da Costa João Manoel, Peres Augusto Cesar De Carvalho, Chaves Erica Gervasoni</b>
S02-540	LDPE/PHB Blends Filled with Castor Oil Cake <b>Rocha Marisa Cristina Guimarães</b>

S02-564	The Effect of Natural Rubber Viscosity on Crystallization and Impact Properties of PLA/NR blends <b>Pattamaprom cattaleeya, Teerawattananon Chanpen</b>
S02-645	Morphological and Rheomechanical analysis of uncompatibilized and compatibilized blends of recycled PP/Ground Tire Rubber (GTR) devulcanized by microwave <b>Garcia Pamela Sierra, Andrade Ricardo, Maia João, Scuracchio Carlos Henrique, Cruz Sandra Andrea</b>
S02-646	Coalescence suppression in immiscible PP/PS blend by nano-silica particles <b>Liu Xi-Qiang, Yang Wei</b>
S02-649	Morphological and Rheological behavior of blends of recycled polypropylene/ground tire rubber devulcanized in different exposure times to microwave <b>Garcia Pamela Sierra, Scuracchio Carlos Henrique, Cruz Sandra Andrea</b>
S02-671	Effects of Antioxidant Additives Type on Thermal Degradation of Polyethylene Grades: Physical and Rheological Study <b>Keshavarzian Ali, Afzali Kamal, Rashedi Reza</b>
S02-712	Thermal stability, miscibility and self-assembly of liquid crystal/polymer composites for extrusion processing <b>Jang Keon-Soo, Korley Lashanda</b>

### **Group I: S04: Modeling and Simulation**

S04-128	A model of non-linear viscoelastic deformation of epoxy nano-composite of clay (Oral) <b>Ahuja Suresh</b>
S04-129	Model for the Prediction of Bulk Temperature Rises and Pressure Losses in Conical Dies for Rubber Compounds – an Engineering Approach (Oral) <b>Perko Leonhard, Fasching Michael, Friesenbichler Walter</b>
S04-182	Modeling of reversible shape-memory effect in crosslinked semi-crystalline polymers <b>Dolynchuk Oleksandr, Kolesov Igor, Radosch Hans-Joachim</b>
S04-187	Crash simulation of hybrid structures considering the stress and strain rate dependent material behavior of thermoplastic materials <b>Hopmann Christian, Schoengart Maximilian, Klein Jan</b>
S04-191	Simulation of shrinkage and warpage of semi-crystalline thermoplastics <b>Hopmann Christian, Schoengart Maximilian, Borchmann Nikolai</b>
S04-2	Effect of Powder Size and Bulk Concentration on Powder-Binder Phase Separation for Metal Injection Molding Simulations <b>Tseng Huan-Chang</b>
S04-243	Simulative design and process optimization of the two-stage stretch-blow molding process <b>Windeck Christian, Hopmann Christian, Rasche Sebastian</b>
S04-264	Multi criteria adaptive meshing for multi materials injection in Rem3D <b>Francois Guillaume, Ville Laurence, Silva Luisa, Vincent Michel, Coupez Thierry</b>
S04-347	Numerical simulations of the flow of wood polypropylene composites with wall slipping in a profile die: the significance of material data <b>Gooneie Ali, Schuschnigg Stephan, Duretek Ivica, Holzer Clemens</b>
S04-354	Mechanistic modelling and simulation of reversion during Natural Rubber sulphur vulcanization <b>Leroy Eric, Milani Gabriele, Deterre Remi, Milani Federico</b>
S04-388	Analyzing the product changing behavior of complex extrusion die geometries based on CFD simulation <b>Szoke Levente, Ketteler Christoph, Wortberg Johannes</b>
S04-400	Rheological Model for Polymeric Fluids Flows in a Channel with a Square Cross-section with Slipping Phenomena <b>Pyshnograï Ivan, Pyshnograï Ivan Grigor'evich</b>
S04-510	Measures for the Study of Continuous Spatial Variance on Distributive Laminar Mixing <b>Nixon Jason Robert, Bigio David</b>
S04-531	A comparative TD-DFT study of electronic properties of PCPDT-BT, PCPDT-DFBT AND PDTP-DFBT <b>Bhatta Ram S, Tsige Mesfin</b>
S04-535	Simulation and analysis of chemical species behavior in ATRP process considering an adiabatic reactor as system <b>Vieira Roniérík P, Peres Augusto, Costa João M, Lona Liliâne Maria F</b>
S04-541	Molecular simulation of mixed-matrix membranes containing functionalized metal-organic frameworks <b>Feng Jie, Hopkinson David, Albenze Erik, Luebke David</b>
S04-589	Dissipative Particle Dynamics simulation of entangled polymer systems <b>Khani Shaghayegh, Yamanoi Mikio, Maia Joao</b>

S04-687	Heat Transfer in Polymeric Foams <b>Valaei Sina</b>
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### **Group I: S15: Additive Manufacturing**

S15-223	Synthesis and study of sericin-g-PLA <b>Saetae Somruethai, Magaraphan Rathanawan</b>
S15-225	Admicellar polymerization of PCL-PLA on NR latex particles <b>Wongphonchai Watit, Magaraphan Rathanawan</b>
S15-3	Temperature influence on the optical material characteristics of polymer powders <b>Laumer Tobias</b>
S15-332	Modelling of the aging behaviour of polyamide 12 powder during laser melting process <b>Wudy Katrin, Drummer Dietmar, Drexler Maximilian</b>
S15-410	Functionalization of polymer powders for laser beam melting processes using an atmospheric plasma jet in a fluidized bed reactor <b>Sachs Marius, Schmitt Adeliene, Schmidt Jochen, Peukert Wolfgang, Wirth Karl-Ernst</b>
S15-54	Simulation of warpage induced by non-isothermal crystallization of co-Polypropylene during the SLS process <b>Amado Antonio, Schmid Manfred, Wegener Konrad</b>
S15-609	Additive Manufacturing Research on Sensors and Actuators at The University of Akron <b>Vatani Morteza, Engeberg Erik D., Jeong Kwang-Un, Choi Jae-Won</b>

**Monday, June 9, 4:00 – 4:40 PM**

**Venue: Exhibit Hall**

### **Group II: S06: Nanocomposites**

S06-13	Linear and nonlinear rheology of polymer-silica nanocomposites <b>Wang Jun, Yu Wei</b>
S06-140	Electrical Conductivity and EMI Shielding Effectiveness of RTV Silicon rubber and Nano graphite/ Carbon Black Hybrid (Oral) <b>Katbab Ali Asghar</b>
S06-154	Multiwall Carbon nano-tubes/conductive polymer composite for supercapacitor applications <b>Lee Ka yeung Terence , Naguib Hani E, Lian Keryn</b>
S06-155	Morphology and thermal properties of polyamide 6/ layered double hydroxide nanocomposites synthesized by in situ bulk polymerization. <b>Botan Rodrigo, Nogueira Caio Telma Regina, Lona Liliane Maria Ferrareso</b>
S06-162	Mechanical, Electrical and Dielectric Properties of FKM/ Graphene Nanoribbon (GNR) Nanocomposites <b>Khajehpour Maryam, ZeHTAB Yazdi Alireza, Sundararaj Uttandaraman</b>
S06-165	Influence of polyhedral oligomeric silsesquioxanes with different functional groups on mechanical and thermal properties of polydimethylsiloxane: a comparative study <b>Zhang Dian, Liu Yufeng, Shi Yunhui, Huang Guangsu</b>
S06-17	Thermo-oxidation behaviour of modified polypropylene nanocomposites obtained in molten state <b>Komatsu Luiz Gustavo Hiroki, Oliani Washington Luiz, Lugao Ademar Benenovolo, Parra Duclerc Fernandes</b>
S06-173	Enhanced piezoelectric properties of electrospun poly(vinylidene fluoride)/ <b>Seo Yongsok</b>
S06-185	The effect of hybridizing on the electrical conductivity and electromagnetic interference shielding properties of injection and compression molded MWCNT /graphene/polypropylene hybrid nanocomposite <b>Kangarlou Behrad, Mehranpour Milad, Goharpey Fatemeh</b>
S06-205	Effect of high temperature, biaxial stretching on the thermal and mechanical properties of HDPE/MWCNT sheet <b>Xiang Dong, Harkin-Jones Eileen, Linton David</b>

S06-209	Layered PVDF Materials with High Dielectric and Electromagnetic Interference Shielding Properties (Oral) <b>Shen Jiabin, Zhu Jiaming, Zhao Wenpeng, Guo Shaoyun</b>
S06-211	Towards High Barrier Performances of Graphene Oxide Nanosheet/Polymer Nanocomposite Films <b>huang hua-dong, xu jia-zhuang, xu ling, li zhong-ming</b>
S06-212	Fabrication of Pure Polar Phase in Poly(vinylidene fluoride) /Graphene Oxide Nanocomposite during Melt Crystallization <b>Li Yue, Xu Huan, Li Zhong-Ming, Zhong Gan-Ji</b>
S06-239	Characterizations of Polyimide Nanocomposite Films <b>Chang Jin-Hae, Kim Jeong-cheol</b>
S06-254	Enhancing impact toughness of polylactide/poly(ether)urethane blends through nanoparticle-driven morphological transition <b>Bai Hongwei, Xiu Hao, Fu Qiang</b>
S06-28	Effect of extrusion conditions and post-extrusion techniques on the morphology and thermal/mechanical properties of polycaprolactone/clay nanocomposites <b>Ludueña Leandro Nicolas, Vazquez Analía, Kenny José María, Alvarez Vera Alejandra</b>
S06-291	Brazilian Nanoclay Polypropylene Nanocomposite with Addition of Recycled Cellulose <b>Fermio Danilo Marin</b>
S06-292	Epoxy Composites with Hybrid Carbon Fillers – Dispersion and synergy effects <b>Yue Liang, Manas-Zloczower Ica</b>
S06-295	Bionanocomposites based on PBSA/PCL blends with PCL-grafted-Cellulose Nanocrystals <b>Simão José Alexandre, Pereira Fabiano Vargas, Branciforti Marcia Cristina</b>
S06-297	Melt extrusion of PBAT with modified cellulose nanocrystals by in situ polymerization <b>Morelli Carolina Lipparelli, Bras Julien, Belgacem Mohamed Naceur, Branciforti Marcia Cristina, Bretas Rosario Elida Suman</b>
S06-316	Enhanced electrochemical capacitance and cyclic stability of one dimension Graphene Nanoribbon/Polypyrrole nanocomposite <b>Hsu Feng-Hao, Wu Tzong-Ming</b>
S06-319	Influence of acid concentration and ultrasound assistance on extraction cellulose nanowhisker from sisal pulp <b>Tan João Keniti, Santos Arnaud Victor, Barbosa Josiane Dantas, Vargas Fabiano Pereira</b>
S06-323	Dielectric Properties of Poly(Butylene Succinate) Nanocomposite Incorporated with Barium Strontium Titanate Powder <b>Plungpongpan Kittichin, Nootsuwan Nollaphan, Koonsaeng Nattamon , Laobuthee Apirat, Manuspiya Hathaikarn</b>
S06-326	Effect of layered double hydroxides on the crystallization kinetics and polymorphic behavior of biodegradable poly(butylene adipate) <b>Hong Yi-Tong, Wu Tzong-Ming</b>
S06-367	Study on the Polymer Blends Nanocomposites <b>Mojarrad Azim, Ramazani S. A. Ahmad, Ghasemi Ismaeel</b>
S06-42	An investigation in microstructure, morphology and rheology of the elastomer nanocomposites based on BR/EPDM <b>Kharazmkia Mehdi, Naderi Ghasem</b>
S06-429	Mineralized polymer composites as biogenic bone substitute material. <b>Rushita Shah, Nabanita Saha, Takeshi Kitano, Petr Saha</b>
S06-430	Synthesis and characterization of polyaniline/activated-carbon conductive nanocomposites by oxidative polymerization for application in thin layers <b>REGUIG Bendoukha Abdelkarim</b>
S06-433	PBAT and nano-hydroxyapatite composite structure for cell differentiation and proliferation <b>Ribeiro Wilson Alves, Santos João Paulo Ferreira, Bretas Rosario E. Suman</b>
S06-434	Improvement of barrier properties of rotomolded PE containers with nanoclay <b>Jamshidi Shadi, Sundararaj Uttandaraman</b>
S06-442	On the cure kinetics of epoxy/anhydride/MWCNTs nanocomposites <b>Saeb Mohammad Reza, Sarami Raha, Wagenknecht Udo, Pakdel Amir Saeid</b>
S06-446	Synthesis and thermal characterization of poly (L-lactide-ε-caprolactone)/layered double hydroxide nanocomposite <b>Gonçalves Núria Angelo, Caio Telma Nogueira, Lona Liliane</b>
S06-450	Effect of Clay Modification on the Thermal Properties of Polyamide 6/ Acrylonitrile-EPDM-Styrene/Montmorillonite Nanocomposites <b>Oliveira Amanda Dantas, Castro Lucas Daniel, Jung Marco Keun, Pessan Luiz Antonio</b>
S06-455	Effect of nanoclay incorporation in PA6/ABS blends compatibilized with different functionalized copolymers <b>Castro Lucas Daniel Chiba, Oliveira Amanda Dantas, Jung Marco Keun, Pessan Luiz Antonio</b>
S06-481	Effect of organoclay type on the properties of polypropylene nanocomposites <b>Tavares Albaniza Alves, silva Diêgo Fabrício A., Raposo Claudia Maria de Oliveira, Andrade Daniela de Lourdes Anjos Coutinho Simões , Canedo Eduardo Luís, Silva Suédina Maria de Lima</b>

S06-49	Effect of the mixture of carbon nanotubes and carbon black in the electrical conductivity, percolation threshold and dispersion properties of pmma nanocomposites <b>Coelho Paulo Henrique da Silva Leite, Morales Ana Rita</b>
S06-50	Effect of Process Parameters on Poly( $\epsilon$ -caprolactone) Nanofibers Prepared by Electrospinning <b>Rouhi Hadi, Golshan Ebrahimi Nadereh</b>
S06-506	Effect of molecular weight of polyamide 6 on the mechanical and rheological properties of nanocomposites with national organoclay <b>Da Paz Rene Anisio, Damião Leite Amanda Melissa, Araújo Edcleide Maria, Alves De Melo Tomás Jeferson , Pessan Luiz Antonio, Passador Fabio Roberto</b>
S06-508	Study about the mechanical properties of PCL and PCL systems with clay <b>França Danyelle Campos, Morais Dayanne Diniz, Bezerra Elieber Barros, Araújo Edcleide Maria, Wellen Renate Maria</b>
S06-532	Influence of the processing conditions on the mechanical properties of biobased TPU/HNT nanocomposites <b>Marini Juliano, Pollet Eric, Avérous Luc, Bretas Rosario Elida Suman</b>
S06-579	The Toughening Mechanism of COC/EBC Blend and their Hybrid Systems with Nanoclay <b>ashuri anahita, nazockdast hossein, mehranpour milad</b>
S06-596	Modified Cellulose Nanocrystals to reinforcing polylactide by melt-blending <b>Spinella Stephen, Lo Re Giada, Liu Bo, Dorgan John, Habibi Youssef, Raquez Jean-Marie, Dubois Philippe, Gross Richard A.</b>
S06-598	Effects of chemically surface modified nano-silicon dioxide on the mechanical properties of polyamide 6 <b>Queiroz Breno Dutrade, Ambrosio Jose Donato</b>
S06-600	Preparation of Palladium-Graphene Nanocomposites and Reduction of Nitrophenols <b>Ko Weon Bae, Kim Jae Jin</b>
S06-607	Study on Rheological Properties of PP/EOC Blend and their Hybrid Systems with Nanoclay <b>Tarashi Zohreh, Nazockdast Hossein, Mehranpour Milad</b>
S06-608	Improvement of thermoplastic polyurethane and treated cellulose nanowhisker (TPU/CNW) bio-nanocomposite performances prepared by melting <b>Prataviera Rogério, Avérous Luc, Bretas Rosario Elida Suman, Lucas Alessandra de Almeida</b>
S06-613	Study of the morphology and rheology of PP/COC/Nanoclay hybrid nanocomposites <b>Ebrahimi Marzieh, Nazochdast Hossein, Mehranpour Milad</b>
S06-615	The study of Poly (L-lactide) grafted silica nanoparticles via “grafting to” method on the properties and film blowing of Poly (L-lactide) <b>Wu Feng, Yang Ming-bo, Liu Zhengying</b>
S06-620	Processing of Polypropylene-Montmorillonite-Silver Nanocomposites as Food Packaging Bactericide Material <b>Oliani Washington Luiz, Parra Duclerc Fernandes, Lima Luis Filipe Carvalho Pedroso, Fermino Danilo Marin, Diaz Francisco Rolando Valenzuela, Lincopan Nilton, Santos Priscila Martins, Lugao Ademar Benevolo</b>
S06-63	In-situ Synthesis of Polyester/graphene Nanocomposites Using a Catalyst Carried on PVP Grafted Graphite Oxides <b>Guan Guohu, Li Chuncheng</b>
S06-630	A route to homogeneously disperse nanofillers in the intractable matrix of UHMWPE <b>Rastogi Sanjay, Ronca Sara, Forte Giuseppe, Yao Yefeng, Ailianou Artimis, Kornfield Julia</b>

**Tuesday, June 10, 9:30-10:10 AM**

**Venue: Exhibit Hall**

**Group III: S05: Composites**

S05-118	Effect of air plasma treatment on interfacial shear strength of carbon fiber reinforced polyphenylene sulfide measured by the microbond test <b>Xu Dongxia, Liu Baoying, Wang Xiaojun, Yang Jie</b>
S05-120	Effect of aminated polyphenylene sulfide on the properties of carbon fiber reinforced polyphenylene sulfide composites <b>Zhang Kun, Liu Baoying, Zhang Gang, Long Shengru, Wang Xiaojun, Yang Jie</b>
S05-171	Composites of polyamide-6 and bleached cellulose fibers prepared by extrusion <b>Fernandes Felipe Cicaroni, De Paoli Marco-Aurelio, Gadioli Renan</b>



S05-180	Effect of Water Absorption on the Mechanical Properties of Poly(3-Hydroxybutyrate)/Vegetable Fiber Composites <b>Marinho Vithoria Alexandre Duarte, Hecker de Carvalho Laura, Canedo Eduardo Luis</b>
S05-206	Composite processing based on recycled expanded polystyrene reinforced with sugarcane cellulose fibers <b>Correia de Jesus Luiz Carlos, da Luz Sandra Maria, Leão Roseneide Miranda, Amico Sandro Campos, Zattera Ademir José, Moreira Alessandro César de Oliveira</b>
S05-226	Effect of matrix polarity on the properties of polymer/phosphate glass composites <b>Li Huan, Wu Hong, Guo Shaoyun</b>
S05-271	Shear-Induced Hierarchical Cylindrites in Single Natural Fiber-Poly(lactic acid) Green Composites <b>Xie Lan, Xu Huan, Li Xu-Juan, Chen Jing-Bin, Huang Hua-Dong, Zhong Gan-Ji, Li Zhong-Ming</b>
S05-29	Modeling the dynamics of fibre breakage during capillary extrusion of polymer matrix composites <b>Luduena Leandro Nicolas, Sporleder Fedrico, Carella Jose Maria, Dorao Carlos Alberto, Alvarez Vera Alejandra</b>
S05-334	Theory on a Process for Amorphous Cellulose Fillers in a Crashing Mill <b>Koda Tomonori, Shimura Pyoichiro, Miyata Ken, Nishio Taichi, Nishioka Akihiro</b>
S05-335	Mechanical Properties and Morphology of PP/SEBS-MA/ Amorphous Cellulose Composites <b>Nishioka Akihiro, Shimizu Kosuke, Shimura Ryoichiro, Miyata Ken, Koda Tomonori, Nishio Taichi</b>
S05-352	Functionalization of continuous fiber reinforced thermoplastics through injection molding technologies <b>Huber Timo, Baumgaertner Sebastian, Roch Alexander, Henning Frank</b>
S05-368	Influence of Silane Coupling Agents on the Rheological Behavior of Hemp Fiber Filled Polyamide 1010 Biomass Composites in Molten State <b>Nishitani Yosuke, Hasumi Megumi, Kitano Takeshi</b>
S05-371	Effect of Addition of Plants-Derived Polyamide 11 elastomer on the Mechanical and Tribological Properties of Hemp Fiber Reinforced Polyamide 1010 Composites <b>Mukaida Jun, Nishitani Yosuke, Kitano Takeshi</b>
S05-374	Tribological Properties of PTFE Filled Plants-Derive Semi-Aromatic Polyamide (PA10T) and GF Reinforced PTFE/PA10T Composites <b>Takenaka Yuki, Nishitani Ysuke, Kitano Takeshi</b>
S05-379	Development directions of polymer composites extrusion technology <b>Stachowiak Tomasz, Postawa Przemyslaw</b>
S05-420	Production and characterization of agglomerates of rigid polyurethane and rigid polyurethane/natural fibers regarding flammability for use as thermal and acoustic insulation in building construction <b>Rizzo Marcos Vinicius, Bortoluz Nathália, Ribeiro Willian Belincanta , Petereit Yasmin Eccel, Grisa Ana Maria Coulon, de Oliveira Nunes Maria Fernanda, Zeni Mára</b>
S05-437	High-Density Polyethylene/Chitosan Compounds: Effect of Load Level on Thermal and Mechanical Properties <b>Silva Poliana dos Santos, França Camila Guedes, Andrade Daniela de Lourdes Anjos Coutinho Simões, Canedo Eduardo Luis, Silva Suédina Maria de Lima</b>
S05-488	Study of the mechanical properties of polymer composites obtained from the PCL and lint cotton <b>Bezerra Elieber Barros, França Danyelle Campos de, Morais Dayanne Diniz de Sousa, Araújo Edcleide Maria , Rosa Morsyleide de Freitas</b>
S05-496	Mechanical properties of injection molded all-polypropylene composites with long fibers <b>Wang Jian, Wang Sui, Chen Dongjie</b>
S05-501	Cellulose Chemical Treatments to Use as Reinforcements in EVA Composites <b>Zimmermann Matheus Vinicius Gregory, Zattera Ademir José , Santana Ruth Marlene Campomanes</b>
S05-513	Preparation and Properties of Novel Biocomposites from Biodegradable Polyester Matrix reinforced with electrospun PHB fibers <b>Pezzin Sergio Henrique, Bertoncini Mariana, Torres Enrique Giménez, Olalla Águeda Sonseca</b>
S05-52	Conductive Ultrahigh-Molecular-Weight Polyethylene Composites with A Novel Segregated Structure <b>Pang Huan, Bao Yu, Li Zhong-Ming</b>
S05-527	Elaboration and characterization of New Nanocomposites Based on Cellulose Nanofibers and Copolymers Containing Fluorinated and Nitrile Derivatives <b>Raihane Mustapha, Kadimi Amal, Kaddami Hamid, Ouanaies Zoubeida</b>
S05-551	Evaluation of mechanical properties of composites obtained by extrusion using biodegradable matrix and sisal fiber <b>Azevedo Joyce Batista, Barbosa Josiane Dantas Viana, Motta Carolina Carvalho Simões de Oliveira</b>
S05-552	Influence of processing on the thermal properties of composites PBAT-starch/ rice husk <b>Azevedo Joyce Batista, de Carvalho Laura Hecker, Canedo Luis Eduardo</b>
S05-573	Study of mechanical and morphological properties of bio-based polyethylene (HDPE) and sponge-gourds (Luffa-Cylindrica) agroresidue composites <b>Escocio Viviane Alves, Visconte Leila Lea Yuan, Cavalcante Andre de Paula, e Sousa Ana Maria Furtado, Pacheco Elen Beatriz Acordi Vasques</b>
S05-582	Polysilane adding PE/PP sheath core fiber reinforced composites <b>Yamashita Yoshihiro</b>

S05-595	Reactive processing of textile-natural fiber reinforced anionic polyamide-6 composites <b>Kan Ze, Yang Mingbo, Chen Peng, Liu Zhengying, Feng Jianmin</b>
S05-599	“Interfacial Interactions in Glass Fiber Reinforced Polypropylene Composites Derived from Dynamic-Mechanical Properties” <b>Sousa Jose Alexandrino</b>
S05-601	$\beta$ -Whitlockite ( $\beta$ -TCMP) encapsulating with Poly(lactic-co-glycolic) acid (PLGA) <b>Calderas Fausto, Medina-Torres Luis, Najera-Romero Valeria, Moreno Leonardo, Manero Octavio</b>
S05-603	The use of thermovision technique to estimate the properties of highly filled polyolefins composites with calcium carbonate <b>Jakubowska Paulina, Klozinski Arkadiusz</b>
S05-604	The thermal properties of polyolefins composites with copper silicate <b>Klozinski Arkadiusz, Jakubowska Paulina, Ambrozewicz Damian, Jesionowski Teofil</b>
S05-648	Evaluation of thermal properties of composites PHB / PCL / Wood powder <b>Neto Targino Amorim, Viana Josiane Dantas, Pachekoski Wagner Mauricio</b>
S05-665	Rapid infusion of epoxy matrix composites <b>Fang Xudong</b>

### **Group III: S06: Nanocomposites**

S06-640	Electrical and mechano-optical behavior of PET/CNT nanocomposites <b>Martins Carla I, Gua Yuanhao , Cakmak Miko, Paiva Conceição</b>
S06-641	Development of Nanocomposites of Poly (Methyl Methacrylate) with Bentonite Clay Organophilic Targeting Technology Application <b>Arimatéia Rafaela Reis, Silva Taciana Regina, Cunha Bartira Brandão, Agrawal Pankaj, Araújo Edcleide Maria, Melo Tomás Alves, Ito Edson</b>
S06-651	Improving the thermal conductivity and shape stability of polyethylene glycol phase change materials using graphene nanosheets for thermal energy storage <b>Qi Guo-Qiang, Yang Wei</b>
S06-664	Enhancing the mechanical properties of PMI foam by nano fibers addition <b>Kadkhodaie AmirMajid, Eskandari Shahla</b>
S06-680	Synthesis and Characterization of Polyaniline/Polybenzoxazine Nanocomposite Films for High Temperature, Anti-Corrosion, and Antimicrobial Applications <b>Caldona Eugene, de Leon Al Christopher, Pajarito Bryan, Advincula Rigoberto</b>
S06-7	Effect of Silica Particles on the Electrical Properties of Epoxy/Silver Nanocomposite <b>Lim Soonho, Kim Heesuk, Nam Seungwoong, Kim Daeheum</b>
S06-701	Formation of Well-Ordered Gold Nanoclusters Using a Reverse Colloidal Templating Approach <b>Tiu Brylee David , Pernites Roderick , Felipe Mary Jane, Foster Edward , Advincula Rigoberto</b>
S06-704	Morphology Switches in Ternary PLA Nanocomposites Characterized by Electrical Impedance Spectroscopy (EIS) <b>Abtahi Mojtaba , Baji Avinash , Mai Yiu Wing , Darestani Mariam</b>
S06-706	Using the carbon nanotube (CNT) / CNT interaction to obtain Hybrid Conductive Nanostructures <b>Santos João Paulo Ferreira , da Silva Aline Bruna , Bretas Rosario E. S.</b>
S06-77	In situ polymerization of $\epsilon$ - caprolactam and polyester polyol in the presence of nano silica Toward Amorphouse PA nanocomposite <b>Omid Sariyeh, Moazezi Alireza, Ghorbani Parisa, Ahmadi Shervin</b>
S06-78	The Role of Micromechanic and Elasticity of Polypropylene (PP)/EPDM Rubber Thermoplastic Vulcanizates (TPVs) and Nano Hydroxyapatite as Bone Scaffold, upon Mesenchymal stem cells Attachment, Proliferation and Differentiation <b>Sedighi Sara, Katbab Ali Asghar, Haghighipour Nooshin</b>
S06-79	A New Injectable Biphasic Hydrogel Based on Partially Hydrolyzed Polyacrylamide and Nano Hydroxyapatite, Crosslinked with Chromium Acetate, as Scaffold for Cartilage Regeneration <b>Koushki Newsha, Katbab Ali Asghar, Bonakdar Shahin</b>
S06-8	Compatibilized Polyethylene – Graphene Oxide Nanocomposites: Component Mapping & Thermal, Rheological and Mechanical Performance <b>Mittal Vikas, Chaudhry Ali U</b>
S06-83	Effect of different molar mass and multiple extrusion on polypropylene/montmorillonite nanocomposites <b>Silva de Lima Carlos Alberto, Pinheiro Luis Antonio, Carvalho Benjamim de Melo</b>



S06-91	Preparation and characterization of electroactive polyvinylidene fluoride/iron oxide nanocomposites <b>Ouyang Zen-Wei, Chen Erh-Chiang, Wu Tzong-Ming</b>
S06-98	Piezoresistance in Polymer Nanocomposites <b>Rizvi Reza, Naguib Hani E, Biddiss Elaine</b>

**Tuesday, June 10, 4:00 – 4:40 PM**

**Venue: Exhibit Hall**

**Group IV: S10: Injection Molding**

S10-148	Development of a novel approach for the simulation of the foam injection moulding process <b>Hopmann Christian, Weber Mathias, Sander Daniel</b>
S10-157	Yield, impact and fracture performance of injected metallic looking pp parts <b>Costantino Maria Alejandra, Pontes Antonio, Pettarin Valeria, Frontini Patricia</b>
S10-170	Effect analysis for compensating viscosity fluctuations by means of a self-optimising injection moulding process <b>Hopmann Christian, Weber Mathias, Reißmann Axel</b>
S10-175	Anisotropic electrical conductive polymer composites with alternating multilayer structure prepared through high speed thin wall injection molding <b>Yu Feilong, Deng Hua, Zhang Qin, Wang Ke, Zhang Chaoliang, Chen Feng, Fu Qiang</b>
S10-192	The research of UV curing injection molding <b>xie Pengcheng, Chang Le, Song Le, Cai Tianze, Ding Yumei, Yang Weimin</b>
S10-193	Development and Accuracy Verification of the Polymer PVT tester with high pressure and high cooling rate <b>Li Yuelin, Song Le, xie pengcheng, Ding Yumei, Yang Weimin</b>
S10-216	High-Performance Poly(butylene adipate-co-butylene terephthalate)/Thermoplastic Starch Biodegradable Blends Fabricated by Oscillation Injection Molding <b>Li Xu-Juan, Li Zhong-Ming, Ran Rong, Zhong Gan-Ji, Ding Jian-Ping</b>
S10-261	The Shrinkage Behavior and Surface Topographical Investigation for Micro Metal Injection Molding <b>Islam A., Giannekas N., Marhöfer D. M., Tosello G., Hansen H. N</b>
S10-267	Stem Cell Response to Surface Energy Anisotropy <b>Katschnig Matthias</b>
S10-274	Shear-Induced Crystallization of Poly(lactic acid) and Its Realization in Injection Molding <b>Xu Huan, Xie Lan, Huang Hua-Dong, Liang Yuan-Ying, Zhong Gan-Ji, Li Zhong-Ming</b>
S10-318	Clamping Characteristics Study of Different Types of Clamping Unit <b>Jiao Zhiwei, Liu Haichaoiu, Xie Pengcheng, Yang Weimin</b>
S10-355	Mold temperature control during injection molding process <b>Postawa Przemyslaw, Stachowiak Tomasz</b>
S10-36	Hierarchical Assembly of Micro-/Nano-Building Supermolecular Blocks: Unprecedented Access to Super-Strong Poly(lactic acid) <b>Xu Huan, Xie Lan, Zhang Zi-Jing, Li Xu-Juan, Chen Jing-Bin, Huang Hua-Dong, Li Yue, Zhong Gan-Ji, Li Zhong-Ming</b>
S10-387	Three-dimensional numerical simulation of filling imbalance in powder injection molding <b>Kang Tae Gon, Park S.J., Chung S.T., Kwon Y.S.</b>
S10-414	Contracting, expanding flows effects on morphology of micro-injection molded Polyoxymethylene <b>Kamal Musa R., Dourdour Abdessalem, El-Otmani Rabie</b>
S10-477	Effect of reprocessing cycles on the degradation of polypropylene copolymer filled with talc or montmorillonite during injection molding process <b>Demori Renan, Weschenfelder Vandro Felipe, Ashton Elisa, Cândido Luis Henrique Alves, Kindlein Wilson, Mauler Raquel Santos</b>
S10-543	In-line visualization of polymer plastication with a transparent barrel in injection molding <b>Pham Thuy-linh, Balcaen Jean, Bereaux Yves, Charmeau Jean-Yves, Chhay Sambor</b>
S10-654	$\beta$ -cylindrites of polypropylene emerged in the melt penetrating process of iPP into HDPE <b>Zhang Rui-yan, Yang Wei, Liu Zheng-ying, Yang Ming-bo</b>
S10-703	Rapid control of mold temperature during injection molding process <b>Liparoti Sara, Huang Tsang Min, Sorrentino Andrea, Titomanlio Giuseppe, Cakmak Mukerrem</b>
S10-71	Study on Filling Imbalance in Geometrically Balanced Runner Systems <b>Wilczynski Krzysztof, Wilczynski Krzysztof J., Narowski Przemyslaw</b>

S10-9	Influence of Process Parameters on Wall Thickness Distribution during the Initial Step of the Direct GITBlow Process <b>Seidel Stefan, Moritzer Elmar</b>
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#### **Group IV: S14: Materials Technology For Sustainability**

S14-163	Promising Use of Atactic Polypropylene in Isotactic Polypropylene Blends through Special Processing <b>Zhang Zhengchi, Li Zhong-Ming, Lei Jun</b>
S14-189	Improvement of bonding properties of laser transmission welded, dissimilar thermoplastics by plasma surface treatment <b>Hopmann Christian, Schoengart Maximilian, Sooriyapiragasam Suveni, Behm Henrik</b>
S14-213	Polypropylene random copolymer in pipe application: Performance improvement with controlled molecular weight distribution <b>Yu Lei, Wu Tong, Chen Tian, Yang Feng, Xiang Ming</b>
S14-272	Novel Green Composites from Microalgae Biomass and Bioplastic: Processing and Compatibilization <b>Torres Simonet , Navia Rodrigo, Campbell Murdy Rachel , Mohanty Amar Kumar, Cooke Peter, Misra Manjusri</b>
S14-278	The effect of particle size on the mechanical and rheological properties of polyamide 6/biochar composites <b>Huber Tim, Misra Manjusri, Mohanty Amar Kumar</b>
S14-357	Synthesis and characterization of polymer based composites containing municipal solid waste incineration (MSWI) bottom ash. <b>Denis Hrelja, Stefano Besco, Alessandra Lorenzetti, Martina Roso, Michele Modesti</b>
S14-375	Preparation and Characterization of composites of PP and PE recycled <b>Casarin Suzan Aline, Souza Junior Osvaldo Francisco de, Falcão Evaristo A., Barbosa Fábio A., Agnelli José Augusto Marcondes</b>
S14-405	Effect of Temperature on Biodegradability <b>Machado Ana, Oliveira Manuel, Araujp Andreia</b>
S14-418	Development of Silver and Clay-Starch Bio-Nanocomposites <b>Machado Ana, Abreu Ana, Oliveira Manuel</b>
S14-465	Synthesis and self-assembly of amphiphilic copolymers of oligo(ethylene glycol) methacrylate and monomethyl itaconate with tunable pH-temperature responsivities as a nanocarrier of anticancer drug <b>Pourmoazzen Zhaleh</b>
S14-467	Process Optimization of PLA Based Blends for Use in Durable Goods <b>Vadori Ryan, Huber Tim, Mohanty Amar Kumar, Misra Manjusri</b>
S14-556	Thermal Process Dependence of Mechanical Properties and Inner Structure of Pre-consumer Recycled Polypropylene <b>Tominaga aya, Sekiguchi Hiroshi, Nakano Ryoko, Yao Shigeru, Takatori Eiichi</b>
S14-643	Polyaniline electrode as a sensor for detection of urine infection <b>Viana Hamilton Magalhaes, Vertulo Rodrigo Cesar</b>
S14-740	Flame Retarded Poly(Lactic Acid) Using POSS-Modified Cellulose <b>Douglas M. Fox, Melissa Novy, Karlana Brown, Mauro Zammarano, Richard H. Harris Jr., Edward D. McCarthy, Jonathan E. Seppala, and Jeffery W. Gilman</b>
S14-85	Morphology and properties of injection-molded poly(lactic acid)/ramie biocomposites in the presence of strong shear flow <b>Zhong Ganji, Xu Huan, Li Zhong-Ming</b>

#### **Group IV: S16: Rheology and Rheometry**

S16-262	Superimposed Effects in High-Shear-Rate Capillary Rheology of Polystyrene, Polypropylene, and Linear Low-Density Polyethylene Melts <b>Chen An-Fu , Huang Han-Xiong, Guan Wei-Sheng</b>
S16-35	Bio Plasticizers <b>Bétron, Cyrille</b>
S16-404	Rheologically determined swelling/deswelling of PVME hydrogel: influence of spherical nanoparticles <b>Shoja Chaykar Ashkan, Goharpey Fatemeh</b>
S16-425	Uniaxial extension of entangled polymeric materials close to Tg <b>Sun Hao, Wang Shi-Qing</b>

S16-428	Exploring the tensile extensional behavior of entangled polymer both above and below glass transition temperature <b>Li Xiaoxiao, Cheng Shiwang, Wang Shi-Qing</b>
S16-528	Viscoelastic Evaluation and Colloidal Stability of Cellulose Nanofibers water dispersions Prepared by TEMPO-Mediated Oxidation <b>Raihane Mustapha, Benhamou Karima, Magnin albert, Dufresne Alain, Kaddami Hamid</b>
S16-584	In-Situ Characterization of Model Thermoplastic Polyurethane Systems using FTIR <b>Gadley Jesse L., Maia Joao</b>
S16-605	Investigating Merits of Application of SEPS for Asphalt Binder <b>Zafari Farhad, Rahi Mohamad, Nazockdast Hossein, Moshtagh Nazanin</b>
S16-617	Preparation and Properties of SEPS /Nanosilica Compound and Asphalt Modified with the Compound <b>Moshtagh Nazanin, Rahi Mohamad, Zafari Farhad, Nazockdast Hossein</b>
S16-658	Investigation on crystallization of high cis 1,4-polyisoprene and its effect on filament breakup <b>Wang Mengchen, Liu Gengxin, Cui Dongmei, Wang Shi-Qing</b>
S16-683	Effect of Hyperbranching on Rheological Behavior of Poly(ethylene- glycol) Methyl Ether Methacrylate Based Hydrogel <b>Danda Chaitanya, Mangadlao Joey, Pangilinan Katrina, Maia João , Advincula Rigoberto</b>
S16-73	Molecular structure and extensional rheology of self-prepared long chain branched polypropylene <b>Zhao Wangyang, Yang Qi, Huang Yajiang, Liao Xia, Li Nengwen</b>
S16-80	New mesoscopic model and its multimodal approximation for polymeric media flows <b>Merzlikina Darina, Pyshnograï Grigory</b>
S16-711	Preparation and Rheological Characterization of Long Chain Branching Polylactide <b>Liu Jianye, Zhang Shijun, Zhang Liying, Bai Yiqing</b>
S16-714	Rheology of Polyurethane Foam during its Manufacture. <b>Mondy Lisa A, Grillet Anne M., Wyatt Nicholas B., Rao Rekha R., Soehnel Melissa M., Shelden Bion, Roberts Christine C., Celina Mathew C.</b>

**Wednesday, June 11, 9:30-10:10 AM**

**Venue: Exhibit Hall**

**Group V: S07: Fibers and Films**

S07-114	Synthesis and Characterization of Fullerene Functionalized Tetrathiafulvalene-based Polymer <b>Kim Dae-Yoon, Lee Sang-A, Park Soon-Chun, Nah Changwoon, Jeong Kwang-Un</b>
S07-115	Synthesis and Characterization of Uncrosslinked Photoresponsive Elastomer <b>Kim Dae-Yoon, Lee Sang-A, Kim Ji-Tae, Yoon Won-Jin, Choi Yu-Jin, Nah Changwoon, Jeong Kwang-Un</b>
S07-141	Preparation and Characterization of Electrospun Nanofiber with Core-Shell Structure based on Thermoplastic Urethane elastomer and Gelatin <b>Katbab Ali Asghar</b>
S07-186	Metallization of polyesters for high barrier applications <b>Deans Taneisha</b>
S07--2	Evaluation the Core Concentration Effect on Diameter of Core/Shell Electrospun Fibers <b>Khodkar Fatemeh, Golshan Ebrahimi Nadereh</b>
S07-220	Preparation and drug delivery study of electrospun porous fibers prepared by different methods <b>Wei Zhi-mei, Wang Xiao-jun, Long Sheng-ru, Yang Jie</b>
S07-241	Hyperthermal Hydrogen Induced Cross-Linking and Formation of Nano-Wrinkling Patterns on Ultrathin Polymer Films <b>Chen Feng, He Liang, Fu Qiang</b>
S07-27	A twist-gel spinning process for effective removal of solvents <b>Wyatt Tom P., Yao Donggang, Deng Yulin</b>
S07-34	Structure and Hygrothermal Stability of Highly Oriented Polyamide 6 (PA6) Produced by Solid Hot Stretching <b>Shi Kaihua, Ye Lin, Li Guangxian</b>
S07-336	Preparation and Characterization of Polyvinylidene fluoride Films Under a Static Electrical Filed <b>Wang Jie-Mao, Wu Tzong-Ming</b>

S07-361	Monitoring structure development in LDPE blown film using real-time wide-angle X-ray diffraction <b>Van Drongelen Martin, Cavalo Dario, Vittorias Lakovas, Alfonso Giancarlo, Peters Gerrit</b>
S07-378	Antibacterial property of chitosan/gelatin blend nanofibers <b>Habibi Sima, Rezvani zahra, Samimi Gharai Sadaf</b>
S07-416	Peel/Seal Properties of Polybutene-1 Blends and Their Nanoclay Composite Films <b>Mohammadi RaziyeH Seyedeh, Aji Abdellah, Tabatabaei Seyed Hesam</b>
S07-426	Breakup behavior of symmetric three layer polymeric melt films <b>Solouki Bonab Vahab, Goharpey Fatemeh, Foudazi Reza</b>
S07-438	Fabrication of Inorganic Oxide Nanofibers of several morphological forms <b>Ghosh Monoj, Jana Sadhan Chandra, Reneker Darrell</b>
S07-440	Fabrication and Characterization of Poly(High Internal Phase Emulsion) Fibers <b>Manas-Zloczower Ica, Bezik Cody T, Foudazi Reza, Feke Donald L, Rowan Stuart J</b>
S07-445	Evaluation of surface treatment by corona discharge in the adhesion properties of paints on polypropylene films for food packaging <b>Mezacasa Forest Tadeu, Campomanes Santana Ruth Marlene</b>
S07-534	Using the Response Surface Method (RSM) to Optimize the Ionic Conductivity of Electrospun PAN/PVdF Polymer Electrolyte <b>Hakkak Fatemeh, Hakkak Hasti, Rafizadeh Mehdi</b>
S07-561	Development of Adhesive Electrospinning Layer Containing Ciprofloxacin/Coconut Oil used as Antibacterial Wound Dressing <b>Chairwut Sonthaya, Supaphol Pitt</b>
S07-66	Effect of polymer structure and morphology on biaxial drawing of PP in the partially molten state. <b>Dietrich Gloger, Vijay Francis, Johan Defoer, Greg Potter</b>
S07-647	Influence of the storage environment on the stability of surface energy of polymer films treated with corona discharge <b>Mezacasa Forest Tadeu, Campomanes Santana Ruth Marlene</b>
S07-670	Behavior of Low Density Polyethylene films under UV ageing for agricultural application <b>Viana Hamilton, Magalhaes, Poveda Patricia Negrini Siqueira, Silva Leonardo Gondim de Andrade</b>
S07-677	Superhydrophobic Nanostructured Polythiophene Film as Effective Anti-Corrosion Coating <b>de Leon Al, Pernites Roderick, Advincula Rigoberto</b>
S07-679	Transfer-Printing of Self-folding polymer-metal bilayer film <b>Thomas Patrick, de Leon Al Christopher C, Barnes Andrew, O'Donnell Jonathan, Zorman Christian, Advincula Rigoberto C.</b>
S07-681	Polymer Nanosheet Containing Star-like copolymer via Layer-multiplying co-extrusion: a Novel Guest Controlled Release System <b>Cao Pengfei, Leon Al de, Baer Eric, Advincula Rigoberto</b>
S07-685	Conducting Thin Films: Graphene Carbazole Functionalization and Electrodeposition <b>Advincula Paul A, Mangadlao Joey Dacula, Advincula Rigoberto C</b>
S07-689	Surface-Grafted Polymers from Photo-crosslinked ATRP Initiators <b>Pangilinan Katrina, Advincula Rigoberto</b>
S07-700	Nanoparticle-imprinted Polymer Sensors for Cowpea Mosaic Virus Recognition <b>Tiu Brylee David, Wen Amy M., Steinmetz Nicole F, Advincula Rigoberto C.</b>
S07-713	New Insights Into The Brill Transition And Consequences On The Biaxial Stretchability Of Polyamide 6 <b>PEPIN Julie, MIRI Valérie, LEFEBVRE Jean-Marc, STROEKS Alexander</b>
S07-72	Structure and Properties of Poly(vinyl alcohol) Blown Films <b>Chen Ning, Li Li, Wang Qi</b>

### **Group V: S08: Reactive Processing**

S08-132	Preparation and properties of dual-cure PUA coatings used for metal substrates <b>Sarrafi Mohsen, Kaffashi Babak</b>
S08-217	Synthesis of semi-aromatic Polyamide PA6/6T by Reactive Extrusion Processing <b>Qu Lan, Zhang Mei-lin, Long Sheng-ru, Yang Jie</b>
S08-342	Silane cross-linkable Ethylene-Propylene Elastomer compositions prepared by reactive processing <b>Kozawa Eiji, Nakajima Yauo, Kim Jae Kyung</b>
S08--4	Sulfonation of EPDM by Reactive Extrusion <b>Weiss Robert A, Zhao Zhiyang</b>

S08-435	Effect of Processing Conditions on Chain Extension of Virgin and Recycled Poly(ethylene terephthalate) <b>Duarte Izabelle da Silva, Andrade Daniela de Lourdes Anjos Coutinho Simões, Canedo Eduardo Luís, Silva Suédina Maria de Lima</b>
S08-436	Effect of Processing Conditions on Chain Extension of Virgin and Recycled Poly(ethylene terephthalate) <b>Duarte Izabelle da Silva, Andrade Daniela de Lourdes Anjos Coutinho Simões, Canedo Eduardo Luís, Silva Suédina Maria de Lima</b>
S08-559	In situ Microfibril Formation of Epoxy in Poly(butylene terphthalate) Nanocomposites: Morphology and Rheological Properties <b>Salehi Barmi Mohammad Mahdi, Nazockdast Hossein, Pircheraghi Gholamreza</b>
S08-627	Modification of thermoplastic starch with maleic anhydride or sebacic acid, by reactive extrusion, for compatibilizing TPS/PBAT blends <b>Bettini Sílvia Helena Prado, Risso Stella, Muñoz Pablo Andres Riveros, Babetto Alex Sandro, Sousa Ana Cristina, Lucas Alessandra Almeida</b>
S08-629	Grafting of maleic anhydride onto poly (lactic acid), PLA, by reactive extrusion <b>Bettini Sílvia Helena Prado, Muñoz Pablo Andres Riveros, Rigolin Talita Rocha</b>
S08-684	In situ photogeneration of silver nanoparticle in biocompatible polymers, antibacterial and release studies <b>Mangadlao Joey Dacula, Advinula Rigoberto C</b>

### **Group V: S09: Extrusion and Extrusion Processes**

S09-195	Influence of Flame Treatment on the Morphology and Behavior of Coextruded PA-PP Pipes <b>Schawe Juergen E.K., Koehler Andreas</b>
S09-219	Ultrasonic decrosslinking of crosslinked high density polyethylene: effect of screw design <b>Huang Keyuan, Isayev Avraam</b>
S09-227	Effects of Layer-multiplying and Interface on the Content of $\beta$ -crystal in iPP <b>Lei Fan, Li Jiang, Guo Shaoyun</b>
S09-260	Effect of the processing variables and the polymer MFI on the residence time distribution in a twin screw extruder <b>Soares Emanuel Pereira, Silva Moacyr Pereira, Agrawal Pankaj, Mélo Tomás Jeferson Alves</b>
S09-483	Evaluation of Decontamination Efficiency in Recycled PET <b>Oliveira Éder Costa, Echegoyen Yolanda, Cruz Sandra Andrea, Nerin Cristina</b>
S09-5	Repreve - The Recycled PET of choice (Oral) <b>Silva Edmir</b>
S09-533	Numerical Simulation to Predict Die Swell for Rubber compound (Oral) <b>Choi s. H., Kim M. S., Kim H. J., Lyu M.-Y.</b>
S09-574	Flame retardant system optimized by extrusion/ultrasound online on HDPE/Nanocomposites <b>Manero Octavio, Sanchez-Olivares Guadalupe, Medina-Torres Luis, Sanchez-Solis Antonio, Calderas Fausto</b>
S09-577	Multilayer Co-Extrusion of High Viscosity Elastomer Systems (Oral) <b>Harris Patrick J., Carson Sidney O., Gadley Jesse L., Maia Joao M.</b>

### **Group V: S17: Fire Science and Engineering**

S17-286	Analysis of rigid PU and rigid PU particle/natural fibers agglomerates with regard to the flammability for thermal and acoustic insulation in civil construction <b>Rizzo Marcos V., Bortoluz Natalia, Ribeiro William B., Perterei Yasmim E., C. Grisa Ana Maria, O. Nunes Maria Fernanda, Zeni Mara</b>
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Wednesday, June 11, 4:00-4:40 PM

Venue: Exhibit Hall

**Group VI: S01: Mixing and Compounding**

S01--11	Ultrafine dispersion of phosphate nucleating agent in polypropylene matrix via a microemulsion method Guo Min, Liu Yiqun, Zhang Yang, Pan Guoyuan, Yan Hao
S01-121	Inducing of dominant polar forms in Poly(vinylidene fluoride) with super toughness by adding Alkyl ammonium salt Wang Chuan Jian, Zhang Qin, Fu Qiang
S01-127	Simultaneous improvements of thermal stability and mechanical properties of poly(propylene carbonate) via incorporation of environmental-friendly polydopamine Li Yuhan, Chen Feng, Fu Qiang
S01-164	Mechanical reinforcement and deformation mechanism of Olefin Block Copolymer incorporating Multi-walled Carbon Nanotubes and graphene with improved thermal stability Wu Siduo, Li Hui, Wu Jinrong, Huang Guangsu
S01-178	Thermal Stability of Poly(3-Hydroxybutyrate)/Vegetable Fiber Composites Cipriano Pamela Bento, Simões Andrade André Luis, Hecker de Carvalho Laura, Canedo Eduardo Luis
S01-268	Effect of the type of compounding on mechanical properties and dispersion state of Polypropylene/Bentonite nanocomposites Lozano Tomas, Morado Hector, Lafleur Pierre, Hernandez Yarazett, Morales Ana B, Salas Homero, Sanchez Saul, Martinez Guillermo
S01-293	Avaliation of addition of Calcium Carbonate and waste micronized Polyethylene-co-Vinyl Acetate compound in Poly (vinyl chloride) Piazza Diego, Grisa Ana Maria Coulon, Flores Ricardo, Brandalise Rosmary Nichele, Zeni Mara
S01-322	Evaluation of mechanical and morphological properties of HDPE compounds doped blowing agent Barbosa Josiane Dantas, Cipriano Pamela Bento, Azevedo Joyce Batista
S01-328	Comparison of methods for dispersion analysis of polymer-filler composite Chung YAO-CHU, Li Yen-Cheng
S01-333	Effect of stereocomplexed poly(lactic acid) served as nucleation agent on crystallization behavior of poly(1,4-butylene adipate) Chen Yi-An, Wu Tzong-Ming
S01-514	Preparation and Characterization of Hydrogels Based on Poly(vinyl alcohol) Blended with Chitosan Zitouni Mohammed Amine, Borsali Kara Slimane Sofia
S01-542	A New Extensional Static Mixer Concept for Improved Dispersive Mixing in in Twin-Screw Extrusion Carson Sidney
S01-544	Study on rheological and mechanical properties of Polyamide (pa-11)/nano-CaCo3 composites with offshore applications da Silva Ana Lucia Nazareth, Rodrigues Aline da Costa, da Silva Antonio Henrique Monteiro da Fonseca Thomé, de Andrade Mônica Calixto, Bastos Ivan Napoleão
S01-545	Preparation and Characterization of composites based on Poly(lactic acid) and CaCO3 nanofiller da Silva Ana Lucia Nazareth, Moreno Janaina Fernandes, da Silva Antonio Henrique Monteiro da Fonseca Thomé, de Sousa Ana Maria Furtado
S01-550	POLYMERIZATION OF STYRENE IN MASS MEDIATED BY NITROXIDES Moraes Samara Boaventura de, Botan Rodrigo, Lona Liliane Maria Ferrareso
S01-619	An investigation of crystallization and rheological behaviors of PLA/Nano-CaCO3 Composites by Experimental Design de Oliveira Amanda Gerhardt, Teixeira Viviane Gomes, da Silva Ana Lucia Nazareth, de Sousa Ana Maria Furtado
S01-650	Evaluation of Thermal Properties PLA/PBAT/Brazilian Clay Obtained by Different Sequence of Mixture Viana Josiane Dantas, Araújo Edcleide Maria, Melo Tomás Jefferson



## **Group VI: S03: Foams**

S03-137	Influence of mineral fillers on the properties of sugarcane bagasse foams <b>Naime Natália, Brant Antônio, Lugão Ademar, Ponce Patrícia</b>
S03-144	Preparation and analysis of multi-mode polystyrene composite foams using nanoparticles (Oral) <b>Fu Dajiong, Yen Ying-Chieh, Lee Ly James</b>
S03-183	Expanded Thermoplastic Polyurethane Beads: Thermal and Foaming Behaviours (Oral) <b>Hossieny Nemat, Ameli Aboutaleb, Saniei Mehdi, Park Chul B</b>
S03-250	Influence of different mineral fillers on the degassing pressure in foam extrusion <b>Geissler Bernd, Walluch Mathias, Laske Stephan, Holzer Clemens</b>
S03-282	Cassava starch-based foams with microcellulose and chitosan manufactured by the process of thermal expansion <b>Stoffel Fernanda, Faccio Julia, Piemolini-Barreto Luciani Tatsch, Zeni Mara</b>
S03-307	CO <sub>2</sub> -induced crystallization of linear and LCB-PLA: impact of dissolved gas and molecular structure <b>Najafi N., Heuzey M.-C., Carreau P. J., Therriault D.</b>
S03-315	Prepare PBS foam with High Cell Density (Oral) <b>Yao Zhen, Zhou Yachan, Wang Qiang, Cao Kun</b>
S03-372	Preparation of open-cell PLA/TPU blend foams by batch foaming with supercritical CO <sub>2</sub> <b>Huang Han-Xiong, Li Shao-Jun, Xiao Shu-Ping</b>
S03-41	Improving the foaming ability of polymer blends through in situ fibrillation of the dispersed phase (Oral) <b>Rizvi Ali, Park Chul Bum</b>
S03-451	Modeling Brownian diffusion in a poly(HIPE) system <b>Gleichsner Adam Mathew, Foudazi Reza, Manas-Zloczower Ica, Feke Donald, Rowan Stuart</b>
S03-478	Evaluation of foaming polypropylene modified with ramified polymer <b>Demori Renan, Azeredo Ana Paula, Liberman Susana Alcira, Mauler Raquel Santos</b>
S03-634	Production of polymer wicks for bioelectric sensors <b>Martins Ana, Machado Ana Vera, Vaz Filipe, Fonseca Carlos, Nobrega Joao Miguel</b>
S03-638	An Accurate Hierarchical Higher Order Plate Theory for Tailoring the Properties of Functionally Graded Porous Media (Oral) <b>Al Jahwari Farooq, Naguib Hani E</b>
S03-86	Facile Preparation of Lightweight Carbon Nanotube/High-density Polyethylene Composites with Efficient Electrical and Electromagnetic Interference Shielding Performance <b>Yan Ding-Xiang, Xu Ling, Jia Li-Chuan, Bao Yu, Li Zhong-Ming</b>

## **Group VI: S11: Elastomer Materials and Processing**

S11--10	Hydrogen bonding, ionic bonding and covalent bonding thermoreversible network of butyl rubber <b>Li Lin</b>
S11-117	Microphase separation and oriented hierarchical structure of Styrenic elastomer with cylindrical domains obtained by dynamic packing injection molding <b>Fu, Qiang</b>
S11-147	Dynamic Fatigue Properties of Polyisobutylene-based Thermoplastic Elastomers <b>Puskas, Judit</b>
S11-313	Manufacture of Rubber Floors Through the Reuse of Waste from Tire Recycling <b>Pereira Nilson Casimiro</b>
S11-353	Formation of bio-based elastomer from styrene-butadiene copolymer and epoxidized soybean oil <b>Kim Jinkuk</b>
S11-621	Influence of ultrasound system in waste tire devulcanization <b>Silva Analice Turski, Santana Ruth Marlene Campomanes, Forest Tadeu Mezacasa</b>
S11-624	Application of gamma irradiation for incorporation of rubber powder in the formulations of acrylonitrile-butadiene rubber (NBR) <b>Pozzo Ludmila, Parra Duclerc Fernandes, Lugão Ademar Benévolo, Zaharescu Traian</b>
S11-84	Early detection of degradation of LLDPE by Successive Self-Nucleation and Annealing (SSA) <b>Silva de Lima Carlos Alberto, Carvalho Benjamim de Melo</b>

### **Group VI: S12: Aerogels**

S12-153	Tailoring Morphology and Properties of Syndiotactic Polystyrene-Silica Hybrid Aerogel <b>Zhang Huan, Jana Sadhan C</b>
S12-461	Multi-block copolymers/clay aerogel composites via freeze-drying <b>Sun Hua, Walters Lauren, Chen Dayong, Schiraldi David</b>
S12-502	Low flammability, foam-like materials based on tannic acid, epoxy and sodium montmorillonite clay <b>Lang Xiaolong</b>
S12-512	The importance of gel rheology upon polymer/clay aerogel structure <b>Sun Mingze, Schiraldi David A.</b>

### **Group VI: S13: Material Technologies for Energy**

S13-207	Investigation on double yielding behavior under tensile loading in isotactic polypropylene with different crystalline structures <b>Wu Tong, Yang Feng, Xiang Ming</b>
S13-245	Improvement in nanoscale morphology of BHJ Polymer Solar Cells by a new and efficient polymeric compatibilizer <b>Davoudi Fatemeh, Mehranpour Milad , Ajeian Rasul, Nazockdast Hossein</b>
S13-320	Dielectric and Piezoelectric Behavior of Silver Nanoparticle filled in Bacterial Cellulose/Poly(Vinylidene Fluoride) Blend <b>Phakdeeparapahn Ekasit, Ummartyotin Sarute, Manuspiya Hathaikarn</b>
S13-360	Wind blades using cost-effective advanced lightweight design - Innovative solutions for wind blades made of advanced thermoplastic material <b>Heinzle Volker</b>
S13-431	Performance of Dip-Coated poly {(2,5-diyl pyrrole) [4-Nitrobenzylidène]} (PPNB) films deposited onto ITO/Au anodes as donor in organic solar cells <b>Reguig Bendoukha Abdelkarim</b>
S13-453	Co-Sensitization of ZnO by CdS Quantum Dots in Natural Dye-Sensitized Solar Cells with Polymeric Electrolytes to Improve the Cell Stability <b>Junhom Warunya, Magaraphan Rathanawan</b>
S13-484	Effect of SiO <sub>2</sub> nanoparticles on Ionic Conductivity and Electrochemical Properties of Electrospun PAN/PVdF Polymer Electrolytes <b>Hakkak Fatemeh, Rafizadeh Mehdi</b>
S13-682	A Hybrid Gold nanoparticle-Polymer linker-Fluorophore Nano-complex for Energy Transfer Study <b>Su Zhe, Cao Pengfei, Infusino Melissa, Strangi Giuseppe, Advincula Rigoberto</b>