

# PPS-35 FINAL PROGRAMME

**DAY#1 MAY 27 Monday**

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
8.40-9.25	PLENARY TALK # 1 - Dimensional Change of Oriented Polymer Open Heating - Takeshi Kikutani Session Chair: Yusuf Menceloğlu						
9.25-9.50	Coffee Break						
	S03_01 Chair: Abdellah Aji	S18_01 Chair: Samuel Kenig	S10_01 Chair: Fevzi Cebeci	S21_01 Chair: Abderrahim Maazouz	S15-01 Chair: Evan Mitsoulis	S17_01 Chair: Clemens Holzer	S6_01 Chair: Serkan Ünal
9.50-10.20	S03-10-Flexible polymer optical fibers produced by bicomponent melt-spinning - Hufenus, Rudolf - Empa - St. Gallen - Switzerland	S18-67-Shape memory polymer bone and soft tissue fixations with property gradients or property distributions - Coates, Phil - University of Bradford - W Yorks - UnitedKingdom	S10-455-Achieving Ultrahigh Performance Nanostructured Fibers Through Processing - Dzenis, Yuriz - University of Nebraska-Lincoln - Nebraska - USA	S21-470-Sustainable super-tough nanostructured biobased polymer blends : Processing, characterization and applications. Misra, Manjusri - University of Guelph - Ontario - Canada	S15-469-Rheology and Chemorheology of Lyotropic Liquid Crystal Templates for Manufacturing Membranes - Foudazi, Reza - New Mexico State University - Las Cruces, NM - USA	S17-310-Additive Manufacturing of Large Parts by an Extrusion based Hybrid Approach - Hopmann, Christian - IKV – Institute for Plastics Processing at RWTH Aachen University - Aachen - Germany	S06-41-Impact of gamma and electron beam sterilization in combination with subsequent aging on optical, mechanical and structural properties of a commercial radiation resistant isotactic polypropylene - Kremser, Thomas - B. Braun Melsungen AG - Melsungen - Germany
10.20-10.40	S03-142-Pilot-scale Melt-spinning of Poly(ε-caprolactone): Solid and Liquid-core Filaments - Selli, Figen - Dokuz Eylul University, Department of Textile Engineering - Izmir - Turkey	S18-329-Replication of Mesoscale Pore One-dimensional Nanostructures Obtained by Thermal Nanoimprint Process - Ito, Hiroshi - Graduate School of Organic Materials Science, Yamagata University - Tohoku, Yamagata - Japan	S10-125-In Situ Nanofibrillation from PP/PET through Spun Bond Process - Shahin, Abu Naser - University of Toronto - Ontario - Canada	S21-184-MFC concept as a possible solution for closed-loop recycling of food packaging trays - Kuzmanovic, Maja - University of Ghent - Ghent - Belgium	S15-85-A novel rotation extrusion rheometer and its applications - Wang, Qi - Polymer Research Institute of Sichuan University - Sichuan - China	S17-5-Additive Manufacturing For Extrusion Tooling - Van Den Broeck, Senne - VIVES University College - West-Flanders - Belgium	S06-390-Morphology and Structural Development of Toughened Polyamide 6 Using Graphene Oxide and Compatibilizer - Aref-Azar, Ahmad - Amirkabir University of Technology, 424 Hafez Ave - Tehran - Tehran - Iran
10.40-11.00	S03-217-The effect of different process parameters on poly amide 66 nano fiber by forspinning method - Bazrafshan , Vahid - Islamic Azad University, Science and Research Branch Tehran, Tehran,Iran - tehran - Iran	S18-76-Online Film Casting Of PC/MWNT Composites Using Ultrasound Assisted Twin Screw Extruder: Experiment And Simulation - I. isayev, Avraam - The University of Akron - USA	S10-264-Investigation On The Influence Of Multi-step Processing On The Mechanical And Thermal Properties Of Cellulose Reinforced EVOH Composites - Granger, Georg - Queen's University Belfast - Belfast - UnitedKingdom	S21-121-Comparative analysis of bacterial cellulose based polymeric films for food packaging - Bandyopadhyay, Smarak - Centre of Polymeric Systems, University Institute, Tomas Bata University in Zlin - Zlin - Czech	S15-319-Advanced robust rheological characterisation for rigid PVC extrusion - Desplentere, Frederik - KU Leuven Bruges Campus - West Flanders - Belgium	S17-428-Novel Use of 3D Printing For Manufacturing Arbitrary Shaped Mesoporous Polymer Constructs - Jana, Sadhan C. - University of Akron - Akron, OH - USA	S06-224-High-performance thermal and electrical conductive composites from multilayer plastic packaging waste and expanded graphite - Bai, Shibing - Polymer Research Institute of Sichuan University - Sichuan - China
11.00-11.20	S03-222-Producing the In-situ PC/PA6T-Nanofibril Composite and the Effect of Nanofibers on PC Properties - Akrami, Hamidreza - University of Toronto - Ontario - Canada	S18-297-Rotating Die Heads: Impacts on Processing and Layer Structure in Multi-layered Tubing and Piping - Schneider, Tyler - Case Western Reserve University - OH - USA	S10-170-Characterization of Nanoparticle Dispersion and Optimal Mixing Conditions for Polymer Nanocomposites - Iyer Ganapathi, Jayadurga - Intel - Oregon - USA	S21-14-A Highly Stretchable and Thermo-recoverable Polysaccharide based Double Network Hydrogel Containing Graphene Oxide - Tarashi, Sara - Amirkabir University of Technology - Tehran - Iran	S15-127-Tube Model Based Constitutive Equations for Polydisperse Linear and Long-chain Branched Polymer Melts - Narimissa, Esmael - Guangdong Technion Israel Institute of Technology - Guangdong - China	S17-200-Mechanical behaviour of scaffold-like structures: Research of relationships between properties and geometry - Pagano, Claudia - National Research Council - Milan - Italy	S06-417-Multilayer Assembly Strategy for Fabricating Polymer Materials with Balanced Performances - Shen, Jiabin - Polymer Research Institute of Sichuan University - Chengdu, Sichuan - China
11.20-11.40	S03-383-Effect of the weight average mass of the PSU polymer support on the evolution of the performance of graft polymer membrane - Mourtah, Imane - Faculty of Science - maarif - Morocco	S08-134-Cork-EVA composite filaments for melt-extrusion additive manufacturing - Daver, Fugen - RMIT University - Victoria - Australia	S10-91-Evaluation of Electrospun Polymeric Nanofibers for Sound Absorption Applications - Ghaus, Rivzi - University of Ontario Institute of Technology - Ontario - Canada	S21-219-Properties of Lignocellulosic Composites of Coffee Husk Filled Polypropylene - Bonse, Baltus - Centro Universitário FEI - São Paulo - Brazil	S15-169-New Simple Analytical Method For Flow Enhancement Predictions Of Pulsatile Flow Of a Structured Fluid - Manero, Octavio - UNAM - CDMX - Mexico	S17-425-3D printed heat pipes - Joffre, Thomas - IPC - Bellignat - France	S06-298-Crystallization of Poly(tetrafluoroethylene (PTFE) and strain induced during sintering - Guenoun, Gabriel - LMT, ENS Paris-Saclay -- PIMM, ENSAM -- Saint-Gobain Recherche - Ile de France - France
11.40-12.00	S03-468-Thermoplastic Film enhancement via Crosslinking Chemistry and Electron Beam Irradiation - Drujon, Xavier - Sartomer Europe - France - France			S21-277-Preparation thermoresponsive semi IPN magnetic nanogels based on poly(N vinylcaprolactam/carboxymethyl cellulose) for localized drug delivery - Ehsani, Morteza - Plastic Department, Iran Polymer and Petrochemical Institute, Tehran, Iran	S15-411-Development of evaluation method of heat resistance of ternary UV curable resin for stereolithography by photo rheometer - Nishimura, Ayumi - School of Mechanical Engineering, College of Science and Engineering, Kanazawa University - Ishikawa - China	S17-430-A contribution towards predicting cooling and adhesion of simple parts produced by FDM - Covas, Jose A. - University of Minho - Guimarães - Portugal	S06-381-Spherulitic Nucleation and Growth Rates of Poly(lactic acid) under Shear Flow - Pantani, Roberto - University of Salerno - Fisciano - Italy
12.00-13.00	Lunch Break						

13.00-13.45	PLENARY TALK # 2 -Enhanced Thermo-mechanical Stiffness, Thermal Stability, and Fire Retardant Performance of Surface-Modified 2D MoS2 Nanosheet-Reinforced Polyurethane Composites - Suprakas Sinha Ray Session Chair: Sadhan Jana						
13.45-14.00	Coffee Break						
	S03_02 Chair: Rudolf Hufenus	S08_01 Chair: Phil Coates	S10_02 Chair: Yongjin Li	S21_02 Chair: Manjuri Misra	S15-02 Chair: Nino Grizzuti	S17_02 Chair: Claudia Pagano	S6_02 Chair: Roberto Pantani
14.00-14.30	S03-442-Polymer Films for Anti-bacterial and Anti-icing Applications - Demirel, Levent - Koc University , Istanbul - Turkey	S08-305-Enhanced Charge Storage in High Performance Hybrid Nanocomposites Containing Multiwall Carbon Nanotubes and Anchored Fe3O4 Particles - Sundararaj, Uttandaraman - University of Calgary - AB - Canada	S10-449-Polyhedral oligomeric silsesquioxanes (POSS): A multipurpose nano-additive for polymer formulation development - Ozkoc, Guralp - Kocaeli University - Kocaeli - Turkey	S21-316-Compounding and Melt strengthening of blends based on poly (lactic acid) - rheological investigations, Structure-properties relationships for forming process Maazouz, Abderrahim - University of Lyon - Lyon - France	S15-315-Rheology and Capillary Flow Behavior of a HNBR Rubber Compound - Mitsoulis, Evan - NTUA - Athens - Greece	S17-480-Synopsis on Damage Analysis and Monitoring in Composite Materials through Experimental and Numerical Approaches - Yildiz, Mehmet - Sabanci University - Istanbul - Turkey	S06-445-Surfactant-Free Microfluidic Processes For Continuous Manufacturing of Polyimide Aerogel Microparticles - Sadhan, C. Jana - The University of Akron - Akron - USA
14.30-14.50	S03-337-Phase structure and oxygen scavenging properties of Ethylcellulose/poly Butadiene based cast films for packaging applications - Kordjazi, Zahra - Ecole Polytechnique de Montreal - Quebec - Canada	S08-234-Cross-linked LLDPE composites in the presence of POSS nanoparticles and poly(ethylene glycol) dimethacrylate coagent : "Comparison of physical properties and shape memory behaviour" - Kurt Demir, Gulsen - Kocaeli University, Chemical Engineering Department - Kocaeli - Turkey	S10-354-Evaluation of engineering properties of graphene filled UHMWPE composites prepared via novel kneading process -Ito, Hiroshi - Graduate School of Organic Materials Science, Yamagata University - Yamagata - Japan	S21-89-Effect of the Chemical Modification on the Thermal and Rheological Properties of Different Poly lactides for Foaming - Murillo Castellón, Svenja - Institut für Kunststofftechnik Universität Stuttgart - Baden-Württemberg - Germany	S15-168-Rheological study of mucoadhesion and cytotoxicity of hybrid microparticles/Montmorillonite clay composite for oral drug delivery - Calderas, Fausto - UNAM - CDMX - Mexico	S17-317-3D printing of conductive nanocomposite based CNT by fused deposition molding - Kchit, Nadir - Nanocyl - Namur - Belgium	S06-242-Orientation in LLDPE cast films manufactured under different processing parameters - Bayazian, Hoda - Paderborn University - Germany
14.50-15.10	S19-268-Design of the Coating Spraying Method and Processing Parameters for Maximum Surface Self-Cleaning Ability - Ghaus, Rivzi - University of Ontario Institute of Technology - Ontario - Canada	S08-378-The Effect of Glass and Gold Particles on Optical Properties of Phosphor Converted White LEDs - Effect of Asphaltene on Morphology and Rheological Properties of Asphaltene/Multiphase Polymer Blend - Topcu, Gokhan - Izmir Institute of Technology, Materials Science and Engineering Department - Izmir - Turkey	S10-421-Design and Fabrication of Dimensionally Controlled Graphene Based Polymeric Composites by Core-Shell Electrospinning for Energy Storage Systems - Haghghi Poudeh, Leila - Sabanci University - Pendik, Istanbul - Turkey	S21-374-Effect of Processing Parameters on Mechanical Properties of Porous PLA tubular scaffolds Produced by Gas Assisted Microcellular Extrusion Technique - Bhati, Pooja - Bhati Pooja	S15-64-Rheology and dynamics of multi-micro-/nanolayered polymer systems : A multi-scale investigation of interfaces/interphases and confinement effects towards better - controlling of coextrusion process - Lamnawar, Khalid - University of Lyon-INSA Lyon - Lyon - France	S17-334-Fabrication of FDM 3D Printed Multi-Functional Poly(lactic Acid)/Graphene Nanocomposites and Parts via Local Enrichment Strategy - Chen, Yinghong - State Key Lab of Polym Mater Eng, Polymer Research Institute of Sichuan University - Sichuan - China	S06-135-Synergistic Effects of Organophosphorus DOPO-PEPA Additive on Enhanced Melt Processing of PET - Gooneie, Ali - Empa, Swiss Federal Laboratories for Materials Science and Technology - St. Gallen - Switzerland
15.10-15.30	S04-194-Rheological characterization of thermoplastics reinforced with natural fibers for the simulation of injection mold filling - Dupuis, Antoine - PIMM Laboratory - ENSAM Paris - Paris - France	S08-338-Optimization of Electromagnetic Interference Shielding Efficiency of PMMA based Nanocomposite - Retailleau, Clémence - Ingénierie des Matériaux Polymères - Rhône - France	S10-335-Graphene from waste tire by recycling technique for cost-effective and light-weight automotive plastic part production - Saner Okan, Burcu - Sabanci University Integrated Manufacturing Technologies Research and Application Center - Istanbul - Turkey	S21-162-Effect of the Compatibiliser on Degradation and Morphology of Multiple Extruded PP-PET Compatibilised Blend - Van Kets, Karen - Ghent University - Ghent - Belgium	S17-301-Optimisation of a continuous fibre reinforced additive manufacturing process - Van De Steene, Willem - Ghent University - Oost-Vlaanderen - Belgium	S06-68-The influence of pressure on Crystallization Kinetics of Isotactic Polypropylene - De Santis, Felice - Borealis Polyolefine GmbH - Linz - Austria	
15.30-15.50	Coffee Break						
	S04_01 Chair: Yakup Ülçer	S08_02 Chair: Fugen Daver	S10_03 Chair: Elif Özden	S21_03 Chair: Morteza Ehsani	S15-03 Chair: Khalid Lamnawar	S17_03 Chair: Thomas Joffre	S6_04 Chair: Ali Gooneie
15.50-16.10	S04-160-Modeling Of Cumulative Damage Of Non Return Valves For Predictive Maintenance Applications - Zhao, Chen-Liang - University of Duisburg-Essen, Institute of Product Engineering - North Rhine-Westphalia - Germany	S08-308-Effect of Asphaltene on Morphology and Rheological Properties of Asphaltene/Multiphase Polymer Blend - Transient rheological measurements of fibre-filled polymer melt in rotational rheometers - Sundararaj, Uttandaraman - University of Calgary AB - Canada	S10-31-Interfacial assembly of Janus rods in polymer blends at rest, under flow and during relaxation - Khani, Shaghayegh - Case Western Reserve University - OHIO - USA	S21-409-Stereocomplex Crystallization of Enantiomeric Poly(lactic acid)s and Their Heat-Resistant Biobased Materials - Pan, Pengju - Zhejiang University - Hangzhou - China	S15-79-Determination of the viscoelastic Poisson's ratio of polymers using DMA in torsional and axial direction - Arnold, Gunther - Anton Paar Germany GmbH - Ostfildern - Germany	S17-152-Carbon fibre reinforced thermoplastics for material extrusion additive manufacturing - Holzer, Clemens - Montanuniversitaet Leoben, Institute of Polymer Processing - Styria - Austria	S06-333-The in situ micro/nano-fibrillation concept as an efficient route for the enhancement of the processability and mechanical properties of bio-based polymeric blown films - Yousfi, Mohamed - INSA LYON - LYON - France
16.10-16.30	S04-49-Comparison of additive and conventional manufactured injection molding inserts - Mitterlehner, Thomas - Johannes Kepler University Linz - Linz - Austria	S08-95-Transient rheological measurements of fibre-filled polymer melt in rotational rheometers - Bhattacharya, Sati - RMIT University - Victoria - Australia	S10-303-The Effects of Boron Nitride Nanofillers Shape on the Morphology and Properties of Polymeric Nanocomposites - Azadeh, Zandieh - University of Toronto - Ontario - Canada	S21-207-Development of vanilline based flame retardants for PLA Composites - Leuteritz, Andreas - Leibniz-Institut fuer Polymerforschung Saxony - Germany	S15-473-Innovative numerical methods to improve the performance of computational rheology simulations in polymer processing applications - Costa, Ricardo - University of Minho - Guimaraes - Portugal	S17-29-A Comparative Analysis of the Shape Memory Properties of Thermoplastic Polyurethane Processed by 3D Printing and Injection Moulding - Aminul, Islam - Technical University of Denmark - Hovedstaden - Denmark	S06-202-Correlation between crystallization kinetic and slow crack growth resistance in bimodal polyethylenes with different short chain branches distribution - Pircheraghi, Gholamreza - Department of Materials Science and Engineering, Sharif University of Technology - tehran - Iran
16.30-16.50	S04-225-Development of the monitoring methods of the venting hole clogging in injection mold - Kim, Bongju - Ajou university - Suwon-si Gyunggi-do - SouthKorea	S03-93-Development and Characterization of In-situ Nano-fibrillated PA6-PPS Composites - Mahmud, Mayesha Bintel - University of Toronto-ON - Canada	S10-58-Effect of Non-covalent Interactions on Strain Sensing Performance of 3D Printed Conductive Polymer Composites - Xiang, Dong - Southwest Petroleum University - Sichuan - China	S21-251-The effect of Polypropylene-based Olefin Block Copolymer and organoclays in Recycled HDPE/PP nanocomposites - Rigall-Cedeño, Andres - ESPOL Polyethnic University Escuela Superior Politecnica del Litoral - Guayas - Ecuador	S15-155-Effect of e-beam irradiation on the rheological properties of nanosilica filled EPDM - Drieux, Nadège - Université Jean Monnet - Rhône-Alpe - France	S17-257-Design and development of new polymer powders at EOS for 3D printing applications - Frangov, Stoyan - EOS Ltd. - Munich - Germany	
16.50-17.10		S08-92-Rheo-kinetic study and fire properties of an hybrid bio-based composite - Tran, Kelly - Université Jean Monnet - Saint Etienne - France	S10-403-Antibacterial Nanocomposite Coatings Based on Lysostaphin and Waterborne Polyurethane - Alkan Tas, Buket - Sabanci University - Istanbul - Turkey		S15-210-The role of rheology on the formation of smooth nanofibers from blends of pectin and polyethylene oxide with different molecular weights - Akmalan Balik, Busra - Yeditepe University - Istanbul - Turkey	S17-45-Selective Laser Sintering of Polyamide11/Barium Titanate Piezoelectric Composite Powder - Chen, Ning - Polymer Research Institute of Sichuan University - Sichuan - China	

## DAY#2 MAY 28 Tuesday

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
8.40-9.25	PLENARY TALK # 3 Organic and bio-organic systems for solar energy conversion and CO2 Recycling - Niyazi Serdar Sançiftçi Session Chair: Mehmet Yıldız						
9.25-9.50	Coffee Break						
	S03_03 Chair: Luiz A Pessan	S08_03 Chair: Mehmet Yıldız	S10_04 Chair: Mustafa Demir	S12_01 Chair: John Vlachopoulos	S9_01 Chair: Reza Nofar	S02_01 Chair: Göknur Bayram	S11_01 Chair: Iskender Yilgör
9.50-10.20	S03-191-Dispersion State in Polymer Nanocomposites and Blends and its Incidence on Films Seal Performance - Aiji, Abdellah - Polytechnique Montréal - QC - Canada	S08-447-Moisture Absorption of Composite Laminates: Using Micro- and Nanostructure for Predictive Continuum Models - Altan, Cengiz - University of Oklahoma - Norman, OK - USA	S06-284-The role of nanoparticles localization on morphology and its influence on fracture toughness enhancement of polypropylene/ethylene-octene-copolymer blends - Nazockdast, Hossein - Amirkabir university of technology - Tehran - Iran	S12-201-Morphology Distribution Within Injection Molded Parts, Interpretation On The Basis Of Stretch And Work Evolutions - Titomanlio, Giuseppe - Dept. of Industrial Engineering - University of Salerno - Salerno - Italy	S09-94-Cellular Structure Development in Foam Injection Molding: Amorphous Polymers vs. Semi-crystalline Polymers - Park, Chul B. - University of Toronto - ON - Canada	S07-235-Self-Compatibilizing Polymer Blends - Moldenaers, Paula - KU Leuven - Vlaanderen - Belgium	S11-327-Construct of Phosgene-free Method Applicable to Synthesis of Functional Polypeptide - Endo, Takeshi - Molecular Engineering Institute, Kyushu Institute of Technology - Fukuoka - Japan
10.20-10.40	S03-348-Nonlinear Mechanical Properties of Nanofibers with Controllable Crimpness - Wang, Xiaofeng - Zhengzhou University - Henan - China	S08-406-Dielectric Polymer-hexagonal Boron Nitride Foams with Enhanced Thermal Conductivity - Zandieh, Azadeh - University of Toronto - Ontario - Canada	S10-159-Evaluation of the Mechanical, Electrical and Thermal Properties of High Viscosity HDPE matrix Containing Modified CNTs - Van Velthem, Pascal - UCLouvain - Wallon Brabant - Belgium	S12-294-Process Simulatin Of PEI-CF/PEEK Hybrid Thermoplastic Composite Manufacturing Set Up - Baho, Omar - Univ. Bretagne Sud, UMR CNRS 6027, IRDL, F-56100 - Lorient - France	S09-149-Foam Injection Molding Of Phenolic Resins - Bayer, Martin - Robert Bosch GmbH - Renningen - Germany	S02-198-Investigations On The Influence Of The Extrusion Process On The Foam Structure Of Mechanical Supporting Phenolic Sheets - Methé, Daniel - University of Technology Chemnitz - Saxony - Germany	S11-450-Thermally Induced Shape Memory Polymers with Body Temperature Triggering - Acar, Metin - Istanbul Technical University - Maslak, Turkey
10.40-11.00	S03-355-Analysis of fiber structure and properties of drawn fibers prepared by cold drawing in ethanol and subsequent hot drawing - Takarada, Wataru - Tokyo Institute of Technology - Tokyo - Japan	S08-387-The thermal conductivity and mechanical properties of Synthetic Graphite Loaded Polyphenylene sulfide composites - Sevig Tantug, Gozde - IMS Polymers - Izmir - Turkey	S10-283-A comparative study on crystallization and electrical properties of PVDF/PMMA/CNT and PVDF/PMMA/GNP ternary nanocomposite - Nazockdast, Hossein - Amirkabir university of technology - Tehran - Iran	S12-339-Determination of anisotropic CTE to model processing introduced effects on thermal behavior of PE parts - Moeginger, Bernhard - Hochschule Bonn-Rhein-Sieg - NRW - Germany	S09-50-Influence of Process Management on the Increase of Dynamic Solubility Limits in Injection Foam Molding - Kastner, Clemens - Johannes Kepler University Linz - Upper Austria - Austria	S02-276-Energy Consumption of High Speed Multiscrew Extruders - Sorroche, Javier Vera - University of Massachusetts Lowell - MA - USA	S11-424-Polysulfone Based Amphiphilic Additives: Effect of composition on membrane properties - Acar, Metin - Macro Molecular Engineering Research Group - MERG - Istanbul, Turkey
11.00-11.20	S03-400-Self-Crosslinkable Coatings and Films from Highly Branched Waterborne Polyurethanes - Durmuş Sayar, Ayşe - Sabanci University - Istanbul - Turkey	S08-324-Machine Learning Applications in Polymer Composites - Hamidi, Youssef - Mechanical Engineering Program, Engineering Department, University of Houston-Clear Lake - Texas - USA	S10-285-Rheologically Determined Effect of Block Copolymer Morphology on Dispersion of CNT in SEBS/CNT Nanocomposites - Kosar Alavi - Amirkabir university of technology - Tehran - Iran	S12-128-Role of Flow-Type on the Fiber Orientation Prediction in Injection Molding - Chen, Hongyu - Department of Chemical Engineering, Virginia Tech - VA - USA	S09-51-Thermo-expandable microcapsule as a blowing agent for producing thermoplastic elastomer vulcanized syntactic foam-Riou, Mickaël - Univ. Bretagne Sud, UMR CNRS 6027, IRDL - F-56100 Lorient - France	S02-302-In-line measurement of flow, mixing and reaction in the polymer reactive extrusion - Zhang, Cailiang - Zhejiang University - Zhejiang - China	S11-328-Synthesis and Properties of Polydiurethanes obtained from Multifunctional Isothiocyanates and Thiols - Yoshida, Yoshiaki - Molecular Engineering Institute - KYUSHU Institute Technology - Fukuoka - Japan
11.20-11.40	S01-259-Ageing Behavior of Thermally Joined Hybrids consisting of Laser Pre-treated Metal and Thermoplastic Polymers - Emrich, Niclas - Universität Duisburg-Essen - Duisburg - Germany	S08-321-Development of Cost Effective In-Situ Microfibrillar Recycled PET/Carbon Fiber/Polypropylene Matrix Composites with High Mechanical Properties - Kaymakçı, Orkun - Arçelik Central R&D - Istanbul Technical University, Polymer Sci & Tech. - Istanbul - Turkey	S10-42-Tuning the piezoresistive behaviour of PVDF/CNT nanocomposites by addition of a second polymer - Tang, Xinlei - Technische Universitaet Dresden, Leibniz Institute of Polymer Research Dresden - Sachsen - Germany	S12-141-Influence of processing conditions on the crystallization behavior of polymers - Schubnell, Markus - METTLER TOLEDO - Zürich - Switzerland	S09-99-EMI shielding performance of natural rubber-based nanocomposite foams with segregated CNT network - Sorrentino, Luigi - CNR IPCB - Naples - Italy	S02-373-Mechanical properties of additively manufactured insert with numerical analysis in extrusion process - Davoudinejad, Ali - Technical University of Denmark - Denmark - Denmark	S11-422-Development of innovative molding method of FRP capable of being directly molded on open mold - Morino, Kazuhide - ADEKA Cooperation - Fukuoka - Japan
11.40-12.00		S08-420-Elaboration of PCL/HA filaments for additive manufacturing - Pessan, Luiz Antonio - Federal University of São Carlos - São Carlos - Brazil	S10-396-BN/HDPE and BN/PEI Composites for Thermal Management Applications - Bozkurt, Yunus Emre - Istanbul Technical University - Istanbul - Turkey	S12-112-New Analytical Approach to Calculate the Melt Flow within The Co-Rotating Twin Screw Extruder by Using the Performance Mapping Method - Sporkmann, Frederik - Paderborn University - NRW - Germany	S09-463-The Influence of Design and Process Parameters on Microcellular Foams for Automotive Applications - Girginer, Burcu - Farplas - Cayirova, Kocaeli - Turkey	S02-414-Role of shear in the layer breakups during the nanolayer coextrusion process - Kheireddin, Kadri - PIMM - Paris - France	S11-423-Novel photoinitiators for the UV-LED light source - Sato, Naomi - ADEKA Cooperation - Fukuoka - Japan
12.00-13.00	Lunch Break						

13.00-13.45	PLENARY TALK # 4 Catherine Brinson Session Chair: Cengiz Altan						
13.45-14.00	Coffee Break						
	S04_02 Chair: Mehmet Ali Oral	S08_04 Chair: Naum Naveh	S10_05 Chair: Güralp Özkoç	S12_02 Chair: Giuseppe Titomanlio	S9_02 Chair: Martin Bayer	S02_02 Chair: Paula Moldenaers	S06_04 Chair: Metin Acar
14.00-14.30	S04-33-Properties of polypropylene/multilayered carbon nanotube micromoldings - Zhou, Shengtai - Polymer Research Institute of Sichuan University - Chengdu - China	S10-255-Silane modified reduced graphene oxide as a compatibilizer for immiscible PP/PA blends - Kenig, Samuel - Shenkar college - Israel - Israel	S09-304-Enhanced Extrusion Foamability using Shrinking Nanofibers in Linear Polymer - Lee, Patrick - University of Toronto - Toronto - Canada	S12-129-Some Experiences in Problem Solving with the Help of Rheology and Flow Simulation - Vlachopoulos, John - McMaster University - ON - Canada	S09-4-Visual observation of bubble nucleation, dissolution and re-nucleation in molten polymer saturated with nitrogen gas by quickly changing atmospheric pressure as a physical simulation of core-back foam injection molding - Taki, Kentaro - Kanazawa University - Kanazawa - Japan	S02-220-Continuous extrusion of celluloid film - Dubois, Charles - Polytechnique Montreal - Quebec - Canada	S06-59-Flexible electrospun PET/TiO2 nanofibrous structures for dye-sensitized solar cell (DSSC) photoanodes - Mighri, Frej - Department of chemical engineering, Laval University - Quebec - Canada
14.30-14.50	S04-56-Optimization of micro-injection molding replication for quick response code applications - Regi, Francesco - DTU Mechanical Engineering - Copenhagen - Denmark	S08-395-Strategies to enhance the mechanical properties of a carbon/epoxy composite via interface modification - Naveh, Naum - Shenkar College of Engineering and Design - Ramat Gan, Tel Aviv Area - Israel	S10-166-Release Of Oregon Essential Oil From PHBV Active Films Containing Nanoclays - da Costa, Renata - Universidade Federal de Santa Catarina - Santa Catarina - Brazil	S12-52-Non-standard warpage prediction for short fiber-reinforced thermoplastic components - Kech, Armin - Robert Bosch GmbH - Baden-Wuerttemberg - Germany	S09-204-Effect of TPU hard segment on TPU's bead foaming behavior - Nofar, M.Reza - Istanbul Technical University - ISTANBUL - Turkey	S02-236-Melting of Mixtures of PP H/ HDPE and PP H/PMMA Bulk Solids Related to Single Screw Extrusion - Kneidinger, Christian - University of Applied Sciences Upper Austria - Upper Austria - Austria	S06-182-Simultaneously Enhanced Thermal Conductivity and Mechanical Properties of PP/BN Composites via Constructing Segregated Structure with PP Fiber Penetration - Wu, Hong - Polymer Research Institute of Sichuan University - Sichuan - China
14.50-15.10	S04-57-Influences of micro-ridges orientation and density on the replication of micro-structured surfaces by Injection Molding - Regi, Francesco - DTU Mechanical Engineering - Copenhagen - Denmark	S08-100-Electron induced covalent fibre- matrix linkage in glass fibre reinforced polypropylene composites - Müller, Michael - Leibniz-Institutes für Polymerforschung Dresden e.V. - Saxony - Germany	S10-393-Synthesis of Boron Nitride Nanotubes on Silicon Carbide Fibers for Ceramic Fiber Reinforced Polymer Composites - Koken, Deniz - Faculty of Engineering and Natural Sciences, Sabanci University - Istanbul - Turkey	S12-151-Grid Generation and Process Simulation of an Injection Molding Plasticizing Unit with Focus on Barrier Screws - Altmann, Dominik - Johannes Kepler University - Linz - Austria	S09-312-Multi-Graded foams by gas foaming using periodic mass transport boundary conditions - Di Maio, Ernesto - University of Naples Federico II - Italy - Italy	S02-32-Studies on Single-Screw Extrusion of Wood-Polymer Composites with Yield Stress and Slip Effects - Wilczynski, Krzysztof - Warsaw University of Technology - MAZOWIECKIE - Poland	S11-326-Synthesis of Poly(spiroorthocarbonate)s from Pentaerythritol Derivatives and Their Application to Networked Polymers - Yasuyuki, Mori - KYUSHU Institute Technology - Fukuoka - Japan
15.10-15.30	S04-172-Processing of Ultra-High Molecular Weight Polyethylene (UHMWPE) with Regular and Special Injection Molding Technologies - Turng, Lih-Sheng - University of Wisconsin-Madison - Wisconsin - USA	S05-19-Dispersion of carbon black in bimodal polyethylene - Hristov, Velichko - Borealis Polyolefine GmbH - Upper Austria - Austria	S10-385-Phase Morphology and Fracture Behaviour of CNT and Thermoplastic Modified Epoxy Ternary Nanocomposite by Different Processing Methods - Ma, Hong - Queen's University Belfast - Antrim - United Kingdom	S12-154-Modelling and simulation of the theroset injection molding process - Tran, Ngoc Tu - Chemnitz University of Technology - Chemnitz - Germany	S09-386-Foam Processability of Polypropylene with Varying Microstructures and Molecular Characteristics - Ghosh, Anup - INDIAN INSTITUTE OF TECHNOLOGY DELHI - DELHI - India	S02-366-PVC Gelation Inside A Single Screw Extruder And Its Effect On Product Properties - Demirci, Abdullah - Mikrosan A.S. - Kocaeli - Turkey	S06-418-Computational Approach for a Precise Control Over Micro-Phase Separation/Mixing in Thermoplastic Polyurethanes - Seven, Senem - Sabanci University - Istanbul, Turkey
15.30-15.50	Coffee Break						
	S04_03 Chair: Lih-Sheng Turng	S08_05 Chair: Orkun Kaymakçi	S10_06 Chair: Hong Ma	S12_03 Chair:	S9_03 Chair: Taki Kentaro	S02_03 Chair: Charles Dubois	
15.50-16.10	S04-282-Numerical analysis of the micro injection molding cycle of Poly(oxyethylene) POM - Benayad, Anass - Mechanical Engineering Laboratory, Faculty of Sciences and Technology, USMBA - FEZ - Morocco	S08-139-Mechanical Properties of High Density Polyethylene (HDPE)/Uncarbonized and Carbonized Waste Corn Husk Polymer Composites - Aka, Ayberk - Marmara University - Istanbul - Turkey	S10-363-Fabrication of Mechano Sensitive Films Based on Inorganic Colloid Arrays - Inci, Ezgi - Izmir Institute of Technology - Izmir - Turkey	S12-53-An Efficient Parameter Identification for Macroscopic Fiber Orientation Models with Experimental Data and a Mechanistic Fiber Simulation - Kugler, Susanne - Corporate Sector Research and Advance Engineering Robert Bosch GmbH, FAU Erlangen - Renningen - Germany	S09-143-Continuous production and final part properties of expanded polyamide 12 beads (ePA) - Dörr, Dominik - University Bayreuth - Bavaria - Germany	S02-101-Plant design, stress-strain characteristics in compression and lifecycle description of coiled filament mats based on production according to Fitzer - Westhues, Tobias - Kunststofftechnik Paderborn, Paderborn University, Warburger Str. 100, 33098 Paderborn - NRW - Germany	
16.10-16.30	S04-287-Effects of micro-milled NIP mold surface topography on the optical characteristics of injection molded prismatic retroreflectors - Milan, Nicola - University of Padova - Padova - Italy	S08-261-Modification of tribological, mechanical and biological properties of UHMWPE-HAP acetabular cup liners with incorporation of zirconia nanoparticles - Mohseni Taromsari, Sara - Sharif University of Technology - Tehran - Iran	S10-402-Polyethylene/Halloysite Nanocomposite Films: Enhanced Dispersion Of Uniformly Sized Halloysite Nanotubes By Surface Functionalization - Taş, Erdiç - Sabanci University - Istanbul - Turkey	S12-114-Analysis of the Characteristic Flow Areas for Erdmenger-Elements to Predict the Throughput-Pressure Behavior of Co-Rotating Twin Screw Extruders by Using 3D FEM - Simulation - Sporkmann, Frederik - Sporkmann Frederik	S09-165-Beadfoams with Increased Heat Stability Made from the Engineering Polymer Polybutylene Terephthalate (E-PBT) - Standau, Tobias - University of Bayreuth - Bavaria - Germany	S02-177-Simultaneous reinforcing and toughening of polypropylene via tailoring the crystalline structure and phase morphology - Wu, Hong - Polymer Research Institute of Sichuan University - Sichuan - China	
16.30-16.50	S04-296-Slip of polypropylene melts over laser-induced periodic nano-structures having different dimensions - Lucchetta, Giovanni - University of Padova - PD - Italy	S08-281-Effect of Carbon Black Particle Size on Mechanical and Thermal Properties of Hydroxyl Terminated Polybutadiene (HTPB) based Rocket Motor Liner - Aslan, Onurcan - Defense Industries Research and Development Institute - Tubitak Sage, Ankara - Turkey	S10-413-Effect of Halloysite Nanotube on Mechanical and Biological Properties of Poly(lactic Acid Scaffolds Fabricated by Foam Injection Molding - Altan, Mirigul - Yıldız Technical University, Department of Mechanical Engineering - Besiktas-Istanbul - Turkey			S02-84-Experimental and numerical study of glass fiber attrition in molten polypropylene in D26 mm twin screw extruder based on the Hele-Shaw flow model - Ohara, Masatoshi - Toshiba Machine Co., Ltd. - Shizuoka - Japan	
16.50-17.10	S04-306-Simulation of Interface Strength for a Two-Component Injection Moulded Wheel Product of HDPE and EPDM Rubber - Six, Wim - KU Leuven - Bruges - Belgium		S10-278-Controlling alginate oxidation for producing alginate-gelatin nanocomposite hydrogels - Emami Zahra - Iran Polymer and Petrochemical Institute - Iran			S02-158-Effect of the extrusion parameters on the mechanical properties of Natural Fiber Reinforced Composites - Baysan, Alper - YEDITEPE UNIVERSITY - ISTANBUL - Turkey	
17.15-18.00	PLENARY TALK # 5 Precision in polymer synthesis: From sustainable polymers to bioactive glycopolymers - Remzi Ç. Becer Session Chair: Fevzi Cebeci						
18.00-20.00	POSTER SESSION						

## DAY#3 MAY 29 Wednesday

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
8.40-9.25	PLENARY TALK # 6 Biobased Materials from Sustainable Resources - A Circular Approach towards Alleviating Climate Change - Amar Mohanty Session Chair: Kim Ragaert						
9.25-9.50	Coffee Break						
	S19_01 Chair: Levent Demirel	S08_06 Chair: Sundararaj Uttandaraman	S10_07 Chair: Yusuf Menciloglu	S21_04 Chair: Yakup Ulcer	S9_04 Chair: Anup Ghosh	S17_04 Chair: Hulya Cebeci	S06_03 Chair: Serkan Unal
9.50-10.20	S19-478-Calorimetric Mechanical Sensors based on polymer/particle systems - Demir Muammer, Mustafa - Izmir Institute of Technology - Izmir - Turkey	S03-443-The Role of Plasticization during Sheet Extrusion of Novatein Thermoplastic Protein - Verbeek, Johan - Auckland University - New Market - NewZealand	S10-25-Designing TPU/carbon nanofiller nanocomposites with targeted properties: A roadmap for filler selection - Manas-Zloczower, Ica - Case Western Reserve University - Ohio - USA	S21-46-Microplastic - lifecycle, biological effects and challenging solutions - Altstadt, Volker - University of Bayreuth - Bayern - Germany	S09-311-Thermosetting Polyurethane Foams By Physical Blowing Agents: Chasing The Synthesis Reaction With The Pressure - Di Maio, Ernesto - University of Naples Federico II - NA - Italy	S17-192-Integration of sensors in polymer parts produced with Laser Sintering (LS) - Schmid, Manfred - Inspire, Innovation Center for Additive Manufacturing Switzerland, icams - St. Gallen - Switzerland	S06-446-Critical parameters in producing monolithic polycaprolactone and poly(lactic acid) foams with controlled morphology by thermally induced phase separation - Yilgor, Iskender - Koc University - Sariyer - Istanbul, Turkey
10.20-10.40	S19-279-Study on interfacial adhesion of hybrid composite structures - Karakaya, Nursel - Kocaeli University, Izmit, Turkey, Sabanci University, Istanbul, Turkey	S08-361-Poly(vinylidene fluoride) Based Composites with Triboelectric and Triboluminescence Properties - Arca Guvenc, Aybuke Tugce - Izmir Institute of Technology - Izmir - Turkey	S10-119-A Comparative Study of Carbon Nanofiller-Filled Poly(butylene adipate-co-terephthalate)/High Density Polyethylene Blend-Based Nanocomposites with Enhanced Physical Properties - Tg, Darshan - CHANG GUNG UNIVERSITY - TAOYUAN CITY - Taiwan	S21-122-Acoustic and Thermal Insulation Materials from Elastomeric Waste Residues - Benkreira, Hadj - University of Bradford - Yorkshire - UnitedKingdom	S09-394-Injection Of Polyurethane Foaming On A Porous Medium - Raimbault, Clement - CEMEF - MINES ParisTech - Sophia Antipolis - France	S17-60-The Rheology of the Sol/Gel Phase Transition of PEOT/PBT Block Copolymers for Bio-Scaffold 3D Printing - Grizzuti, Nino - University of Naples Federico II - NA - Italy	S21-115-Hydrolytically Stable, High Performance Biobased Composites From Poly Lactic Acid - Kaymakci, Orkun - Arcelik - Istanbul, Turkey
10.40-11.00	S19-345-Recent Advances in Liquid Composite Molding Processes - Yalcinkaya, M. Akif - Kale Quattro Composite Inc. - Istanbul - Turkey	S08-330-Accurate Characterization of Fiber and Void Volume Fractions of Natural Fiber Composites by Pyrolysis in a Nitrogen Atmosphere - Hamidi, Youssef - University of Oklahoma - OK - USA	S10-111-Miniemulsion Polymerization of Styrene in the Presence of Exploited Clay Platelets Coated With Charge Molecules - Greesh, Nagi - Advanced laboratory for chemical analysis, Tripoli, Libya - Tripoli - Libya	S21-153-TextMat: Development Of New Treatment Methods For Multi Material Textile Waste - Jenull-Halver, Uta - Montanuniversitaet Leoben - Styria - Austria	S09-30-Batch-Foaming Of Ethylene-Propylene-Butene-1 Ternary Copolymer - Guo, Peng - Beijing Research Institute of Chemical Industry, SINOPEC Beijing - China	S17-252-Pregelatinized Starch- Mango Hydrocolloid Characterization for 3D Food Printing - Medina, Jorge - Universidad de Los Andes - Bogota D.C - Colombia	S06-477- Light-activated antimicrobial surface coatings containing nanoheaters - Unal, Hayriye - Sabanci University - Istanbul - Turkey
11.00-11.20	S19-352-Temperature-sensitive Microporous Film Based on Crystalline Gel Particles - Gong, Jin - Yamagata University - Yamagata - Japan	S08-124-Magnetic hydrogel based shoe insoles for diabetics - Patwa, Rahul - Centre of Polymer Systems, University Institute, Tomas Bata University in Zlin - Zlin - Czech	S10-223-Elastomeric Bio-based Epoxy / Clay Nanocomposites - Rigall-Cedeño, Andres - ESPOL Polyethnic University Escuela Superior Politecnica del Litoral - Guayas - Ecuador	S21-246-Lignin Biofilm Reinforced With Nanocrystalline Cellulose - Prestes, Rosilene - Federal Technological University of Paran - Paran - Brazil	S09-203-Effect of TPU Soft Segment Molecular Weight On TPU's Bead Foaming Behavior - Nofar, M.Reza - Istanbul Technical University - ISTANBUL - Turkey	S17-376-3D printed PLA Nerve Conduits : Fabrication and Characterization - Bhati, Pooja - Indira Gandhi Delhi Technical University for Women, & Indian Institute of Technology , Delhi - Delhi - India	S06-476-Development of a versatile technology platform based on oxazoline chemistry and its uses in pharmaceutical and composite applications - Dizman, Bekir - Sabanci University - Istanbul - Turkey
11.20-11.40	S19-401-Tailoring Interfacial Interactions in Fiber Reinforced Polymeric Composites by the Electro Spray Deposition of Waterborne Carbon Nanotubes - Tansan, Murat - Sabanci University - Istanbul - Turkey	S08-239-Investigation of Shape Memory Behavior and Physical Properties of Cross-linked Low Density Polyethylene/OvPOSS/TAIC Composites - Bicer, Ezgi - Kocaeli University, Chemical Engineering Department - Kocaeli - Turkey	S10-325-Fracture Behavior of orthopedic Plate based on PLA/Nano Clay/Epoxyzidized Soybean Oil - Nazokdast, Hossein - Amirkabir University of Technology - Tehran - Iran	S21-245-Evaluation Of The Properties Of Corn Cob Hemicellulose Based Biodegradable Films Obtained By Extrusion And Solvent Casting Methods - Aknalın Balık, Bsra - Yeditepe University - Istanbul - Turkey	S09-106-Effect Of Bios-Source Hydrolysis of Nano-Crystalline Cellulose (NCC) and Its Effect On Thermal Insulation Performance Of Rigid Polyurethane Foam - Yucel, Orcun - Arcelik A.S - Istanbul - Turkey	S17-82-Design of 3D Scaffold Geometries for Optimal Biodegradation of Poly(lactic acid)-Based Bone Tissue - Ghaus, Rizvi - University of Ontario Institute of Technology - Ontario - Canada	S06-474-New Surface Phenomena via Polymeric Surface Modifiers - Makal, Umit - Ravago Petrokimya TPU/PU, Kocaeli, Turkey
11.40-12.00	S19-336-New hybrid nano additives for thermoplastic compounding: CVD grown carbon fiber on graphene - Cakal Sarac, Elcin - Kordsa Teknik Tekstil A.S. - ISTANBUL - Turkey	S08-140-High Density Polyethylene/Uncarbonized and Carbonized Waste Corn Husk Polymer Composites: Physical and Wear Behaviors - Aka, Ayberk - Marmara University - Istanbul - Turkey	S10-293-Properties Of Poly(L-Lactic Acid) Blends Based Nanocomposite Films Prepared With Metal Organic Frameworks - Arican, Selin - Yildiz Technical University - Istanbul - Turkey	S21-483-Imnproved CNF Dispersion In PLA Bio-Nanocomposites: Organic Solvent-Free PEG/CNF Masterbatch Approach - Lo Re, Giada - Chalmers University of Technology - Gothenburg - Sweden	S09-167-Core-Back Injection Molding of Talc-Filled TPO Foams with Chemical Foaming Agents - Jayaraman, Krishnamurthy - Michigan State University - Michigan - USA	S17-426-Development of Eco-Friendly Composites Based on Polypropylene and Cellulose for Additive Manufacturing (Fused Deposition Modeling) - Mastalygina, Elena - Plekhanov Russian University of Economics - Moscow - Russia	S03-365-Synthesis and Characterization of Highly Branched, Functional Poly(Arylene Ether Sulfone)s for Ultrafiltration and Nanofiltration Applications - Unal, Serkan - Material Science and Engineering, Sabanci University - Istanbul - Turkey
12.00-13.00	Lunch Break						

13.00-13.45	PLENARY TALK # 7 Immiscible Polymer Blends by Reactive Compatibilization: Comb-like Molecular, Nanomicellar, and Nanoparticulate Strategies - Yongjin Li Session Chair: Rahmi Özisik							
13.45-14.00	Coffee Break							
	S03_04 Chair: Gokce Ugur Erinc	S08_07 Chair: Yucai Shen	S10_08 Chair: Burcu Saner Okan	S21_04 Chair: Mustafa Yasin Şen	S07_01 Chair: Bekir Dizman	S17_05 Chair: Jorge Medina Perilla	S16_01 Chair: Umit Makal	
14.00-14.30	S03-482-Polymer Nanocomposites with a Unique and Unusual Thermal Stiffening Behavior - Ozisik, Rahmi - Department of Materials Science and Engineering, Rensselaer Polytechnic Institute, Troy, NY 12180, U.S.A.	S10-314-Enhanced Thermo-mechanical Stiffness, Thermal Stability, and Fire Retardant Performance of Surface-Modified 2D MoS2 Nanosheet-Reinforced Polyurethane Composites - Ray, Suprakas - CSIR and UJ - Pretoria, Gauteng - SouthAfrica	S22-173-Bio-inspired Multi-functional Materials - Sun, Luyi - University of Connecticut - CT - USA	S21-87-A Design for Circularity Case Study: Replacing PVC in Temporary Information Carriers - Ragaert, Kim - Ragaert Kim	S07-253-The Effect Of Brominated Epoxy On The Properties Of Epoxy/Phenolic Thermoset Blends - Dodiuk, Hanna - Shenkar.ac.il - Israel Israel	S17-475-Multifunctional CNTs Reinforced PEI Filaments for Fused Deposition Modeling - Cebeci, Hulya - Aerospace Research Center, Istanbul Technical University, Istanbul, Turkey	S07-249-Time-dependent rheological and electrical properties of LLDPE/EVA blends containing graphene - Demarquette, Nicole - Ecole de Technologie Supérieure - QC - Canada	
14.30-14.50	S03-211-Development of antimicrobial gelatin films with boron derivatives - Argin, Sanem - YEDITEPE UNIVERSITY - ISTANBUL - Turkey	S08-164-The Synergistic Effect Between Phenoxyl Thermoplastic and Core-Shell Rubber (CSRs) Particles on Toughness Properties Of Highly Cross-Linked Epoxy Resin - Ballout, Wael - IMCN-BSMA, UCLouvain - Louvain-la-Neuve - Belgium	S10-347-Study On Addition Effect Of Dihydroxymethylphenol (DHMP) On Conductivity Of Poly(3,4-Ethylenedioxythiophene) Doped With Ppoly(Styrene Sulfonic Acid) (PEDOT:PSS) - Konagaya, Shigeji - Nagoya Industrial Science Research Institute - Nagoya - Japan	S22-199-Enhanced Power Output of a Polyvinylidene Fluoride-Based Triboelectric Nanogenerator - Abdoli, Hossein - York University - Ontario - Canada	S07-370-Mechanical properties and fracture behavior of PMMA and Polyrotaxane blends - Ishigami, Akira - Yamagata University - Yamagata - Japan	S17-109-From Processing to Properties: understanding the key steps for Selective Laser Sintering - Peters, Gerrit - Eindhoven University of Technology - NlBr - Netherlands	S16-7-Influence of carbon black in devulcanization of SBR - Saiwari, Sitisaiyidah - Prince of Songkla University, Pattani campus - Pattani - Thailand	
14.50-15.10	S03-216-Preparation of Nanofibers by Force Spinning, Based Polyvinylpyrrolidone and its Application in Wounds Healing - Najafi, AmirHossein - Islamic Azad University, Science and Research Branch Tehran, Tehran,Iran	S08-133-Multiscale Simulation of Transverse Tensile Failure for Polymer Composites: From Atomistic Simulation to Structural Analysis - Kobayashi, Takaya - Mechanical Design & Analysis Corporation - Tokyo - Japan	S10-54-Synthesis Of Conducting Polymers And Soluble Application In Organic Photovoltaic Cells - Remil, Remil - university of mustapha stambouli - MASCARA - ALGERIA	S22-187-Poly(vinyl alcohol)/Polypyrrole/Graphene Nanoplatelet Nanocomposite Foams with Enhanced Thermoelectric Conversion Efficiencies - Aghelnejad, Mohammadmehdi - Yor University - Ontario - Canada	S07-280-Surfing Janus rods: interfacial shear and relaxation behavior of aggregates in binary polymer blends - Paiva, Felipe - Case Western Reserve University - Ohio - USA	S17-429-Melt electrospinning direct writing of micro-coiled structures - Ferdows, Afghah Seyedeh - Sabanci University - Istanbul - Turkey	S16-208-M-POSS as an adhesion promoter for aramid cord and natural rubber system - Kodal, Mehmet - Kocaeli University - Kocaeli - Turkey	
15.10-15.30	S03-461-Extraction and characterization of collagen from waste bovine hide off-cuttings for preparation of biodegradable collagen-based films – a focus on effect of plasticizer concentration on mechanical, thermal and structural properties of collagen-based films - Noorzai, Safiya - University of Waikato - Hamilton - NewZealand	S08-349-Chitosan Based Composite Membranes For Adsorption Of Cu (II) and Pb (II) Ions In Aqueous Solution - Kurt, Özge - Eskisehir Technical University Department of Chemical Engineering - Eskisehir - Turkey	S10-466-Elaboration of polymer-metal nanocomposites for hydrogen storage - Pessan, Luiz - Federal University of São Carlos - São Carlos - Brazil	S07-90-Influence of coupling agents on blend properties - Heyn, Johannes - University of Stuttgart, Institut fuer Kunststofftechnik - Baden-Wuerttemberg - Germany	S17-272-Optimized Manual Serial Sectioning Method for Studying the Pore Surface Topology of Sintered Porous Polymers - Pircheraghi, Gholamreza - Department of Materials Science and Engineering, Sharif University of Technology - Tehran - Iran	S16-227-Effect of polymer relaxation in automated micro polishing - Ben Achour, Soufiane - DTU - Copenhagen area - Denmark		
15.30-15.50	Coffee Break							
	S04_04 Chair: Sanem Argin	S08_08 Chair: Reza Nofar	S13_01 Chair: Mehmet Ali Oral	S12_04 Chair: Rahmi Ozisik	S07_02 Chair: Sakai Tadamoto	S17_06 Chair: Gerrit Peters	S16-02 Chair: Seda Yurteri	
15.50-16.10	S04-228-Development of a screw-mounted temperature sensing system to measure the melt temperature during plasticizing of the injection molding - Jeon, Joohyeong - Ajou University - Suwon - Korea	S08-61-Constructing filler networks in epoxy for multi-functional composites - Shen, Yucai - Nanjing Tech University - Jiangsu - China	S13-368-Flow Analysis of Viscoelastic Fluid Stirred by Single Rotor - Saito, Takushi - Tokyo Institute of Technology - Tokyo - Japan	S12-107-A Novel Structure-Permeability Correlation In Random And Aggregated Fiber Arrays - Papathanasiou, Thanasis - Nazarbayev University - astana - Kazakhstan	S07-462-Scratch Behaviors of Alternating Multilayer PVDF/PMMA Materials - Xu, Yang - Polymer Research Institute of Sichuan University - Chengdu, Sichuan - China	S17-171-Transient Non-Isothermal Simulation of FDM 3D Printer Nozzle Region - Hira, Onur - Istanbul Technical University - Istanbul - Turkey	S16-226-Synthesis and Physical Properties of Polyurethane-Polyrotaxane Hybrids - Murakami, Hiroto - Nagasaki University - Nagasaki - Japan	
16.10-16.30	S04-262-Effects of rapid cavity temperature variations on the crystallinity of PLA - De Meo, Annarita - University of Salerno - Salerno - Italy	S08-258-Modeling The Heat Transport in Semifinished Composite Parts With Thermoplastic Matrix - Längauer, Manuel - University of Applied Sciences Upper Austria - Upper Austria - Austria	S13-161-Condition Monitoring Of Non-Return Valves In Injection Molding Machines Using Available Process And Machine Data - Zhao, Chen-Liang - University of Duisburg-Essen, Institute of Product Engineering - North Rhine-Westphalia - Germany	S12-179-Study on Deformation Behavior of Resin Cylinder under Biaxial Stress - Takaya, Kobayashi - Mechanical Design & Analysis CO. - Tokyo - Japan	S07-163-Structure changes in polymer blends induced by selectively localized carbon black - Stary, Zdenek - Institute of Macromolecular Chemistry CAS - Czechia - Czech	S17-290-Effect of Shear and Extensional Flows on Liquid Filler Morphology in Additive Manufacturing - Bigio, David - University of Maryland - Maryland - USA	S16-48-New Material for Highly Dispersed Silica Filled ESBR Compound; ESBR/silica Wet Masterbatch - Kim, Wonho - Pusan National University - Busan - SouthKorea	
16.30-16.50	S04-269-Effects of Different In-Flow Strategies on Weld Line Strength in Injection Molding of Fiber-Reinforced Polypropylene - Scantamburlo, Andrea - Università degli studi di Padova - Padova - Italy	S08-105-Improvement of Adhesion between the Layers of Polystyrene-Based Carbon Fabric-Reinforced Composites - Erkmen, Berrak - Middle East Technical University - Department of Chemical Engineering - Ankara - Turkey	S13-472-Degassing of polymers on single screw extruders and co-rotating twin screw extruders - Becker, Dietmar - KraussMaffei Berstorff GmbH - Hannover - Germany	S12-196-Capillary Flow of Ionomers and their Corresponding Copolymers: Effects of Ionic and Hydrogen Bonding Associations - Mitsouli, Evan - NTUA - Athens - Greece	S05-21-Use of Elastomers to Enhance the Solid-Phase Formability of Thermoplastics - Leal, Andres - ABB Switzerland Ltd - Aargau - Switzerland	S17-427-Numerical simulation of heating and deposition of polymer in FDM additive manufacturing - Vincent, Michel - MINES ParisTech, PSL Research University - Valbonne - France	S16-72-Promoting the Strain-induced Crystallization of NR/HNT Composites through the Use of Modified Palm Stearin - Hajeemasae, Nabil - Prince of Songkla University - Pattani - Thailand	
16.50-17.10	S04-271-Effect of laser–induced periodic surface structures in the self–cleaning properties of venting in injection molding - Sorgato, Marco - University of Padova - Padova - Italy	S08-23-Impact of vibration welding process on the microstructure and mechanical properties of glass fiber reinforced polymers - Mofakhami, Eeva - Renault Group - Guyancourt - France	S13-215-On-Line And In-Situ Optical Characterization Of The Extrusion Melting Process - Canevarolo, Sebastião - Universidade Federal de São Carlos UFSCar - Sao Paulo - Brazil	S12-260-Effect of Body Forces and Particle Size Ratio on the Rheology and Microstructure of Dense Suspensions in Confined Flows - Barcelos, Erika - Case Western Reserve University - Ohio - USA	S05-273-Effect of Fluid Viscosity on the Initial Charging and Mixing Dynamics of Powder in a Resonant Acoustic Mixer - Bigio, David - University of Maryland - Maryland - USA	S17-22-The Crystallization and Property Studies of Modified Polypropylene in Fuse Deposition Modeling Process - Dong, Mu - SINOPEC Beijing Research Institute of Chemical Industry - Beijing - China		
17.10-17.30				S12-471-Influence of process parameters on the rheological and thermodynamical behavior of ultra-high molecular weight compounds - Unger, Thomas - Nuremberg - Germany		S17-108-Particle-Specific Design of a Grafted Copolymer Enables Highly-Loaded Ceramic Inks for Extrusion-Based 3D Printing - Akaoglu, Can		

## DAY#4 MAY 30 Thursday

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
8.40-9.25	PLENARY TALK # 8 Nanotechnology for Corrosion Inhibition of Metals and Fire Retardancy of Polymers - Samuel Kenig Session Chair: Mükerrer Çakmak						
9.25-9.40	Coffee Break						
	S03_05 Chair : Serkan Unal	S14-01 Chair: Costas Tzoganakis		S22_01 Chair: Luyi Sun	S05_01 Chair: Udo Wagenknecht	S17_07 Chair: Joamin Gonzalez-Gutierrez	S11_03 Chair: Gokce Ugur Erinc
9.40-10.10	S03-9-Highly oriented non-crystalline mesophases in semi-crystalline and amorphous polymer fibers - Perret, Edith - Empa - St. Gallen - Switzerland	S14-37-Surface modification of polymers during moulding and its use for chemical plating - Nagel, Jürgen - Leibniz-Institut für Polymerforschung Dresden e.V. - SA - Germany		S22-458-Field Assisted "Z" orientation of Nanophases to Produce Functional films For Flexible Electronics using a Novel Roll to roll manufacturing platform - Cakmak, Mukerrem	S05-6-Technical Progress In Filler Compounding Using A Twin Screw Extruder - Sakai, Tadamoto - Shizuoka University - Tokyo - Japan	S17-451-Rheological Behavior Of Pla During FDM Process - Tcharkhtchi, Abbas - Arts et Métiers ParisTech - Paris - France	S11-456-Controlled Degradation, Crosslinking And Grafting Of Poly (TETRAFLUOROETHYLENE) By Radiation Processing - Guven, Olgun - Hacettepe University - Ankara - Turkey
10.10-10.30	S03-295-Electrorheological Model Based on Liquid Crystals Membranes with Applications to Outer Hair Cells - Fausto, Calderas - UNAM - Quebec - Canada	S14-66-Reactive extrusion versus dispersion of PTFE lubricant with a polyetherimide matrix - properties of sliding lacquers and resulting films - Gedan-Smolka, Michaela - Leibniz-Institut für Polymerforschung Dresden - Saxony - Germany		S22-467-Influence of Composition, Uni/Biaxial Stretching and Constrained Annealing on the Evolution of Structure and Dielectric Properties of PEI/PBT and PEI/PET Blends - Mutlu, Zeynep - Purdue University - Indiana - USA	S05-322-High Performance Silane Coupled Basalt Fiber – Polypropylene Composites Prepared by Melt Compounding - Kaymakçı, Orkun - Arçelik Central R&D - Istanbul Technical University, Polymer Sci & Tech. - Istanbul - Turkey	S17-292-Analysis Of Porosity Dissolution In SLS Process - Regnier, Gilles - Arts et Métiers - PIMM - PARIS - France	S11-38-Sustainable Self-Healing Elastomers with Thermo-reversible Network Derived from Biomass via Emulsion Polymerization - Sahu, Pranabesh - Indian Institute of Technology, Kharagpur - West Bengal - India
10.30-10.50	S03-404-UV-Curable Coatings Ffrom Novel Waterborne Polyurethane Dispersions - Berksun, Ekin - Sabanci University Integrated Manufacturing Technologies Research and Application Center - Istanbul - Turkey	S14-13 -Selective Modification To A Innovative New High ESCR HDPE - Farah, Marcelo - BRSAKEM SA - RS - Brazil		S22-432-Nanodiamond-superparamagnetic hybrid nanoparticles for magnetoactive shape memory polyurethane network - Salkhi Khasraghi , Samaneh - Sharif University of Technology - Tehran - Iran	S05-267-Harnessing Extensional Flow for Much Improved Mixing Efficiency in Extrusion Operations - Pandey, Vivek - Case Western Reserve University - Ohio - USA	S17-110-Rheological Control Enables Printing of Ultra-Lightweight Cement Composite for Warmer Climates - Zemberecki, Lyn - Faculty of Engineering and Natural Sciences, Sabanci University, Orhanli-Tuzla 34956 - Istanbul - Turkey	S11-289-Mechanical Properties Of Polyurethane Films Synthesized From Bio-Based Hybrid Polyol Blends - Nigar, Sevilyay - Yildiz Technical University - Istanbul - Turkey
10.50-11.10	S03-415-An Experimental Study For Determination Of Convective Heat Transfer Coefficients On Yarn Production Line - Patkavak, Mert - KORDSA Teknik Tekstil A.S. - Alikahya, Izmit, Kocaeli - Turkey			S22-197-Dual responsive nanogels based on Chitosan-NIPAM decorated with Au/Fe3O4 nanoparticles as a carrier for controlled drug release - Bagherifard, Mina - Sharif university of technology - Tehran - Iran	S05-263-Stracth Resistance Improvement of The Plastic Materials - Koksall Yegin, Seda - Farel Plastic R&D Center - Tekirdag - Turkey	S17-371-Fabrication and Characterization of 3D Printed PLA Scaffold - Arora, Jassimran - Indira Gandhi Delhi Technical University for Women - Delhi - India	S11-481-Polymer-amine based thermally latent catalyst systems for composite applications - Dizman, Bekir - Sabanci University, Istanbul - Turkey
11.10-11.20	Coffee Break						
	S03_06 Chair: Edith Perret	S14-02		S05_02 Chair: Seda Köksal Yeğin	S17_08 Chair: Abbas Tcharkhtchi		
11.20-11.50	S03-103-Optimization of the UV stabilization of a plasticized PVC film for exterior automotive applications - Deliniere, Hélène - DOURDIN SAS and IMT LILLE DOUAI, TPCIM - Saint-André lez Lille - France	S14-26-Production of Controlled-Rheology Polybutene-1 Resins through Reactive Processing Tzoganakis, Costas - University of Waterloo - Ontario - Canada		S05-444-Progress in Reactive Compounding with High Energy Electrons - Wagenknecht, Udo - Leibniz-Institut für Polymerforschung Dresden - Dresden - Germany	S17-44-Kinetic and photorheological investigation of ternary photopolymerization system for stereolithography (SLA) - Taki, Kentaro - Kanazawa University - Ishikawa - Japan		
11.50-12.10	S03-98-Electrospinning of circumferentially aligned polymer nanofibers floating on rotating water collector - Li, Shichen - Chonnam National University - Gwangju - SouthKorea	S14-150-Influence of the Fiber Morphology on Electron-Induced Chemical Reactions on Polyacrylonitrile Fibers - Leopold, Anne-Katrin - Leibniz Institut für Polymerforschung Dresden e. V. IPF - Saxony - Germany		S05-27-Thermal, mechanical and physical properties of chain extended recycled Polyamide 6 via reactive extrusion: Effect of chain extender types - Celebi Ozmen, Selin - Istanbul Technical University - Istanbul - Turkey	S17-104 -A trouble-free first layer adhesion for polypropylene-based materials in material extrusion-based additive manufacturing - Gonzalez-Gutierrez, Joamin - Montanuniversitaet Leoben, Institute of Polymer Processing - Styria - Austria		
12.30-12.50	S03-331-Microporous HDPE-based carbon fibers as cathodes for Li-S batteries - Tran, Nguyen Hoai An - TU Dresden - Dresden - Germany	S14-299-Evaluation By On-Line Ftir Of The Effect Of Different Mixing Elements On The Kinetics Of PA6/PP-g-AA Blend Compatibilization During Extrusion - Barros, Lucivan - Case Western Reserve University - Ohio - USA		S05-78-Effect of wine wastes derived additives on short and long-term polypropylene stabilization - Nanni, Alessandro - University of Modena and Reggio Emilia - Modena - Italy	S17-113-Extrusion-based 3D Printing of Ytria-stabilized Zirconia Nanoparticles through the Presence of Single Polymer Additive - Aldulami, Wael - Faculty of Engineering and Natural Sciences, Sabanci University, Orhanli-Tuzla, 34956 - Istanbul - Turkey		
12.50-13.10	S03-362- Lithium Ion Adsorption and Desorption of H4TISO12 Nanofiber Ion Sieves from Aqueous Systems - Demir, Mustafa - Izmir Institute of Technology - Izmir - Turkey	S14-375-Non-isothermal crystallization kinetics of chain extended poly(l-lactic acid) - Erfanian, Elnaz - Amirkabir University of Technology - Tehran - Iran		S05-416-Influence of the degree of crystallinity and the surface free energy on the adhesion properties of different PLA/PBS blends in multicomponent injection molding - Guzel, Kubra Ondokuz Mayıs University - Izmir - Turkey			





## Symposiums

S01 - Blow Molding, Thermoforming and Rotomoulding

S02 - Extrusion and extrusion processes

S03 - Fiber, films, and membranes

S04 - Injection molding

S05 - Mixing and compounding

S06 - Morphology and structural development

S07 - Polymer blends and alloys

S08 - Polymer composites

S09 - Polymer foams

S10 - Polymer nanocomposites and nanotechnology

S11 - Polymerization and synthesis

S12 - Process modeling and simulations

S13 - Process Monitoring, Control and Sensors

S14 - Reactive processing

S15 - Rheology and rheometry

S16 - Rubber and elastomers

S17 - Special Symposium: Additive manufacturing (3D printing)

S18 - Special Symposium: Advanced complex processing

S19 - Special Symposium: High performance polymers

S20 - Special Symposium: High performance composite processing

S21 - Special Symposium: Biopolymers, eco-friendly polymers and recycling

S22 - Special Symposium: Smart materials and polymers for renewable energy