

Venue 105

10:00- PPS Executive Committee Meeting (Only  
17:00 for PPS EC Members and International  
Representatives)

Venue 1<sup>st</sup> Floor, Lobby

15:00- Registration  
20:00

Venue 4<sup>th</sup> Floor, VIP Room

18:30- Welcome Reception  
20:00

**Monday, May 21**

Venue 101

09:00-09:10 **Opening Ceremony**

Chair

09:10-09:55 **Shaping the Future: Sustainability and the Plastic Industry**  
Manas-Zloczower Ica

Chair

09:55-10:40 **Application of Synchrotron Radiation X-ray Spectroscopy/Scattering to Polymeric Materials**  
Takahara Atsushi

10:40-11:00 **Coffee Break**

Venue	101	201A	201B
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Chair

11:00-11:30 S05-133  
 Low-temperature sintering of stereocomplex-type polylactide nascent powder: from compression molding to injection molding  
Fu Qiang  
 (China)

G01-64  
 An Overview Study of Microinjection Molded Polymer/Carbon Nanocomposites: The Effect of Filler and Matrix Type on the Electrical and Morphological Properties  
Hrymak Andre  
 (Canada)

G06-58  
 Electromagnetic Interference Shielding Effectiveness of Polymer Nanocomposites with Carbon Nanotubes and Zinc Oxide Nanowires  
Sundararaj Uttandaraman  
 (Canada)

11:30-11:50 S05-145  
 Novel Use of 3D Printing For Manufacturing Arbitrary Shaped Mesoporous Polymer Constructs  
Jana Sadhan  
 (USA)

G01-65  
 Electrical and Morphological Properties of Microinjection Molded Polystyrene/Multi-walled Carbon Nanotubes/Carbon Black Nanocomposites  
Zhou Shengtai  
 (Canada)

G06-5  
 Morphological Modification and Mechanical Property Enhancement in Natural Rubber/Polypropylene Blends by Addition of Nanoclay  
Sakai Tadamoto  
 (Japan)

## 201C

G08-27  
 Advancing Nanocel-  
 lulose Membrane  
 Technology for Wa-  
 ter Purification  
Hsiao Benjamin  
 (USA)

G08-54  
 Slippery Liquid Im-  
 mobilized Coating  
 Films Using Metal  
 Ions in Polyelectro-  
 lyte Films  
Shiratori Seimei  
 (Japan)

## 201D

G13-69  
 Formulation strate-  
 gies for silicone  
 foaming by CO<sub>2</sub>  
Cassagnau Philippe  
 (France)

G13-83  
 Evolution of foam  
 morphology and  
 performance proper-  
 ties of polypropyl-  
 ene / gamma irradi-  
 ated elastomer  
 blends  
Dutta Anindya  
 (India)

## 201E

S01-384  
 Novel experiments  
 and modelling for  
 SLS printing  
Anderson Patrick  
 (Netherlands)

S01-17  
 Influence of anisot-  
 ropy in the build  
 plane on characteri-  
 zation of short-glass-  
 fiber-reinforced poly  
 (butylene tereph-  
 thalate) for laser sin-  
 tering  
Arai Satoshi  
 (Japan)

## 201F

S03-427  
 A New Roll to Roll  
 Manufacturing Line to  
 Produce Multifunc-  
 tional Films for Ultra-  
 sensitive Sensors  
Cakmak Mukerrem  
 (USA)

S03-84  
 Bio-Inspired Polyeth-  
 ylene-based Compo-  
 site reinforced by  
 Thermoplastic Polyu-  
 rethane (TPU) Fiber  
 for Aerogel Produc-  
 tion  
Karamikamkar  
 Solmaz  
 (Canada)

Venue	101	201A	201B
Chair			
11:50-12:10	S05-31 A Novel Process for Fabrication of Polymer Concave Lens Arrays with Different Focal Length <u>Chang Chih-Yuan</u> (Taiwan)	G01-53 Study on the mechanism of the Surface Defect of the Ceramic Injection molded Insulator <u>Hsu Feng-Jen</u> (Taiwan)	G06-7 Development of Advanced Biocomposite Materials for Thermal Management Applications <u>Botlhoko Orebotse</u> (South Africa)
12:10-13:10	<b>Lunch Time</b>		
Chair			
13:10-13:40		G01-87 Systematic analysis of the effects of moulding conditions on the properties of shape memory polymers <u>Islam Aminul</u> (Denmark)	G06-211 Uniform luminous perovskite nanofibers with color-tunability and improved stability prepared by one-step core/shell electrospinning <u>Chen Wen-Chang</u> (Taiwan)
13:40-14:00		G01-106 Weld Line Strength of Micro Injection Molded Tensile Rods <u>Kuehnert Ines</u> (Germany)	G06-95 Influence of CaCO <sub>3</sub> particles network formation on mechanical properties of PLA composites <u>Hong Joung Sook</u> (Korea)

## 201C

## 201D

## 201E

## 201F

G08-466

Condensation ability  
evaluation of  
organic/inorganic  
composite  
film

Shiratori Seimei  
(Japan)

G13-86

Conductive foams of  
HMS-PP with  
carboxyl-  
functionalized  
MWCNT

Suman Bretas  
Rosario  
(Brazil)

S01-34

Thermal Simulation  
of Additively  
Manufactured  
Injection Molding  
Inserts

Hofstätter Thomas  
(Denmark)

S03-88

Use of Rheology as a  
Tool to Reduce the  
Percolation  
Nanoparticles  
Threshold in

Conductive Nano  
composites  
Demarquette Nicole  
(Canada)

G10-349

A full model for  
flow-induced,  
multi-phase,  
multi-morphological  
crystallization of  
isotactic  
polypropylene:  
application to  
inhomogeneous slit  
flow

Peters Gerrit  
(Netherlands)

G13-140

Microcellular  
Injection Molding of  
Ultra-high Molecular  
Weight Polyethylene  
with the Aids of  
Supercritical  
Nitrogen and Carbon  
Dioxide

Turng Lih-Sheng  
(USA)

S07-354

Appropriate setting  
of cylinder  
temperature in vent  
molding

Nagao Yoshihisa  
(Japan)

S03-126

PVDF based hybrid  
nanocomposites with  
Enhanced  
piezoelectric  
properties

Ajji Abdellah  
(Canada)

G10-484

Multi-chain  
Slip-spring  
Simulations for  
Entangled  
Polymers

Masubuchi Yuichi  
(Japan)

G13-93

Investigation on the  
Electrical  
Conductivity and EMI  
Shielding of PVDF/  
CNTs Composite  
Foams

Zhao Biao  
(Canada)

S07-210

The development of  
jute fibre/  
polypropylene  
composite via direct  
fibre feeding  
injection moulding  
process

Uawongsuwan  
Putinun  
(Thailand)

S03-165

Graphene  
nanoplatelets in  
melt-processed  
nanocomposites-  
opportunities to  
improve filler  
dispersion

Leuteritz Andreas  
(Germany)

Venue  
Chair

101

201A

201B

14:00-

14:20

G01-120  
Using injection molding simulation for the explanation of emerging two- and threedimensional surface structures of ABS and PC/ABS parts for electroplating  
Siepmann Jens  
(Germany)

G06-9  
The influence of nanoclay migration on morphological development, thermal and thermomechanical properties of PP/EVA/clay nanocomposites  
Mofokeng Tladi  
(South Africa)

14:20-

14:40

G01-131  
Study on the Main Driving Force to Cause the Variation of the Core Material Penetration Behavior in Different Materials Arranged Co-injection Molding  
Huang Chao-Tsai  
(Taiwan)

G06-25  
Coupled Flow and Fiber Orientation Analysis for 3D Injection Molding Simulations of Fiber Composites  
Tseng Huan-Chang  
(Taiwan)

14:40-

15:00

G01-152  
Slip of Polymer Melts Over Laser-Induced Periodic Nano-Structures in Injection Moulding Process  
Sorgato Marco  
(Italy)

G06-40  
Synthesis, Characterization and Water Application of Microcellular Injection Molded PP/MMT Nanocomposites  
Hsu Peming  
(Taiwan)

15:00-

15:20

G01-153  
Effects of mold surface coatings on thickness reduction in thin-wall injection molding  
Masato Davide  
(Italy)

G06-61  
In-Plane Permeability Measurement of Fiber Preforms in Resin Transfer Molding by Using Multi-Directional Flow Front Data  
Yao Yuan  
(Taiwan)

16:00- Social Program

## 201C

G10-8  
Numerical Simulation of Residence Time, Shear Rates and Throughput in Single Screw Extruders Considering Wall Shear Rates  
Wittke Marius  
(Germany)

G10-23  
Increasing the thermal conductivity of polymer nanocomposites filled with carbon nanotubes via molecular dynamics simulation  
Gao Yangyang  
(China)

G10-46  
Knowledge-based Support for the Designer regarding Virtual Lifetime Prognosis of Elastomer Components  
Andrae Rene  
(Germany)

G10-47  
A Model to Describe the Transient Temperature Build Up During Dosing of a Rubber Injection Molding Machine  
Kerschbaumer Roman  
(Austria)

## 201D

G13-94  
CO<sub>2</sub> Solubility in TPU and its Effect on Cell Nucleation  
Li Ruosong  
(Canada)

G13-107  
Properties and Foamability of PLA/PTFE Fibrillated Composite  
Jalali Amirjalal  
(Canada)

G13-162  
Effects of saturation temperature/pressure on melting behavior and cell structure of expanded polypropylene bead  
Guo Peng  
(China)

G13-163  
Composite foams of poly(lactic acid) and polybutylene succinate blends containing activated carbons  
Aussawasathien Darunee  
(Thailand)

## 201E

S07-308  
Mechanical properties of CFRP injection molded articles with surface treatment  
Nojima Shinji  
(Japan)

S07-309  
Long-term properties of GFPP injection molded products  
Nojima Shinji  
(Japan)

S07-310  
Education curriculum for effective use of vent molding  
Kataoka Akio  
(Japan)

S07-320  
Influence of modified PP on mechanical properties of glass fiber reinforced PP produced by DFFIM  
Kitano Katsuhisa  
(Japan)

## 201F

S03-182  
Polyblend Nanocomposites Based on Modified Graphene Oxide  
Kol Adi  
(Israel)

S03-196  
Development of dielectric heating-assisted nanoimprint for nanostructure-based sensors on polymer films  
Wei Pei-Kuen  
(Taiwan)

S03-225  
Organic contamination removal from wastewater using heterogeneous porous media  
Cherukupally Pavani  
(Canada)

S03-234  
Construction of a Durable HRP Biosensor with a Conductive Poly(3,4-ethylenedioxythiophene)-BSA film and NanoAu Particles  
Gu Yesong  
(Taiwan)

Venue 101

Chair

08:30- Hybrid Materials - Historical Perspective and Current Trends  
09:15 Altstädt Volker

Chair

09:15- Water Soluble Conjugated Polyelectrolytes: Structures,  
10:00 Properties, Processing and Applications  
Schanze Kirk S.

10:00- **Presentations for future PPS Meeting**  
10:10

10:10- **Coffee Break**  
10:30

Venue	101	201A	201B
Chair			

10:30-	G15-20 Reactive Compatibilization for Immiscible Polymer Blends: From Molecular Compatibilization to Nanoparticle Compatibilization <u>Li Yongjin</u> (China)	G01-227 Micro Injection Molding of Polymer/Carbon Nanotubes Composites Process Properties Relationship <u>Kenig Samuel</u> (Israel)	G07-38 Melt differential Electrospinning Method: A green and efficient way for Nanofiber Preparation and Its Scaling-up <u>Yang Weimin</u> (China)
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11:00-	G15-15 Effect of Precursor Resin on The Properties of Tailor-Made Controlled Rheology Polypropylenes <u>Tzoganakis Costas</u> (Canada)	G04-76 Ring opening polymerization of poly(L-lactide) by macroinitiator <u>Pholharn Dutchanee</u> (Thailand)	G07-108 Fiber formation of PVA containing high amount of SWNTs via flow induced crystallization <u>Dai Lixing</u> (China)
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## 201C

G10-81  
Neural Network  
Learning for CAE  
Simulation  
Jong Wen-Ren  
(Taiwan)

G10-49  
New Method to Ana-  
lyze the Throughput-  
Pressure Behavior  
with the Corrected  
Twin Screw Channel  
Geometry and the  
Induced Drag Flow  
of Screw Elements by  
Using 3D FEM  
Simulation  
Sporkmann Frederik  
(Germany)

## 201D

G12-71  
Modelling transient  
shear stress response  
of glass-fibre  
composites incorpo-  
rating evolution of  
fibre orientation and  
fibre migration  
Bhattacharya Sati  
(Australia)

G12-50  
A Novel Hierarchical  
Multi-Mode MSF  
Model for Long-  
Chain Branched and  
Linear Polymer Melts  
Narimissa Esmaeil  
(China)

## 201E

S07-368  
History of vent type  
injection molding  
machine and recent  
prosperity  
Ichikawa Hirofumi  
(Japan)

S07-355  
Mechanical  
properties in  
recycling of GFPA  
injection molded  
products by vent  
molding  
Nagao Yoshihisa  
(Japan)

## 201F

S03-257  
Bio-waste onion skin  
as an innovative  
nature-driven  
piezoelectric material  
Kim Jin Kon  
(Korea)

S09-194  
Permeability of novel  
amphiphilic  
nanomaterials in a  
model of intestinal  
mucosa in vitro  
Sosnik Alejandro  
(Israel)

Venue Chair	101	201A	201B
11:20-11:40	<p>G15-92 Development of Hydrophobic Polybutylene Terephthalate Through Alkoxysilation Reaction by Reactive Extrusion <u>Kchaou Marwa</u> (France)</p>	<p>G04-128 Synthesis of Uniform Rod-like Polymer Particles Via Propylene Polymerization Using Metallocene Catalysts Supported on Stober Silica <u>Li Kuo-Tseng</u> (Taiwan)</p>	<p>G07-132 Effect of heat treatment under alternating tension on microstructure of PTT fibers <u>Sun Jun</u> (China)</p>
11:40-12:00	<p>G15-137 Valorization of Vegetables Oils to Plasticize or Crosslink Epdm <u>Bounor-Legaré Véronique</u> (France)</p>	<p>G04-176 Cobalt complexes mediated controlled/living radical polymerization: mechanism and application <u>Peng Chi-How</u> (Taiwan)</p>	<p>G07-173 Strain sensing behavior of conductive polymer/carbon nanotube composite coated fiber <u>Xiang Dong</u> (China)</p>
12:00-12:20	<p>G15-171 Influence of Novel Screw Elements on the Reactive Rxtrusion of Low-Density Polyethylene grafted with Maleic Anhydride in Co-rotating Twin Screw Extruder <u>Ma Xiuqing</u> (China)</p>	<p>G04-192 Design, Synthesis and Electrofluorochromism of Novel Triphenylamine Derivatives with AIE-Active Pendent Groups <u>Liou Guey-Sheng</u> (Taiwan)</p>	<p>G07-278 Observation of Fiber Orientation in Injection Molded Long-Fiber Reinforced Composites <u>Aditya Rahul</u> (Taiwan)</p>
12:20-13:30	<p><b>Lunch Time</b> <b>PPS Business Meeting</b></p>		

## 201C

G10-68  
Modeling of the  
Dissipation in the  
Solid Conveying  
Section in Single  
Screw Extruders  
Trippe Jan  
(Germany)

G10-80  
Modeling and Simu-  
lation of Magnetic  
Powder Injection  
Molding  
Park Seong Jin  
(Korea)

G10-104  
Calculation of the  
Drying Process of  
Hygroscopic  
Polymer Pellets in  
Desiccant Dryers and  
With Additional  
Microwave  
Application  
Kast Oliver  
(Germany)

## 201D

G12-91  
The Study of  
Dynamic Viscoelastic  
Responses of In-situ  
Induced  
Microfibrillar Entities  
In Polypropylene /  
Polytrimethylene  
Terephthalate Blend  
Fibers  
Jahani Yousef  
(Iran)

G12-100  
Investigation of  
Molecular Weight  
Distributions during  
Extrusion Process of  
Polypropylene by  
Rheometry  
Experiment  
Bayazian Hoda  
(Germany)

G12-135  
Energy dissipation  
studies of particulate  
suspensions using  
rheological finger-  
prints  
Swarna  
(India)

## 201E

S07-358  
Verification of  
practicality when  
introducing vent  
type injection  
Molding  
Yamauchi Masatomo  
(Japan)

S07-372  
New method of SCF  
foaming injection  
molding for FRTP  
using vent-type  
injection machine  
Kunimune Takahiro  
(Japan)

S07-386  
Vent type injection  
molding  
comprehensive  
Evaluation  
Oikawa Makoto  
(Japan)

## 201F

S03-282  
Depth filtration of  
airborne  
agglomerates using  
electrospun  
bio-based polylactide  
membranes  
Ray Suprakas  
(South Africa)

S03-347  
Nanoindentation  
analysis of oriented  
polypropylene:  
Influence of elastic  
properties in tension  
and compression  
Sweeney John  
(United Kingdom)

S03-348  
Nanocellulose for  
sustainable future in  
advanced polymer  
nanocomposites  
Maji Pradip  
(India)

Venue  
Chair

101

201A

201B

13:30-  
14:00

G01-311  
Optimization of Packing  
Processing Parameters  
Based on PVT Path to  
Achieve High Precision  
Qualities for Injection  
Molded Parts  
Chen Shia Chung  
(Taiwan)

G06-44  
Addition effect of  
aliphatic monools and  
diols on the conductivity  
enhancement of  
poly(3,4-  
ethylenedioxythio-  
phene) doped with poly  
(styrene sulfonic acid)  
(PEDOT:PSS)  
Konagaya Shigeji  
(Japan)

14:00-  
14:20

G04-197  
Novel Stretchable  
Ambipolar  
Electrochromic Devices  
Based on Highly  
Transparent Silver  
Nanowire/PDMS Hybrid  
Electrodes  
Liou Guey-Sheng  
(Taiwan)

G06-70  
Morphological and  
rheological properties of  
zirconia filled  
Polyethylene  
Cassagnau Philippe  
(France)

14:20-  
14:40

G04-339  
Synthesis of  
Redox-active and  
Electrochromic Aromatic  
Poly(amide-imide)s  
Based on 4,4'-Bis(p-  
aminobenzamido)  
triphenylamine  
Monomers  
Hsiao Sheng-Huei  
(Taiwan)

G06-90  
Low-density  
Polyethylene (LDPE) /  
Elemental Sulfur (S8)  
Composites: C  
rystallinity,  
Structure-Property  
Relationship,  
Morphology, Mercury  
Adsorption and  
Supercapacitor  
Properties  
Alhassan Saeed  
(United Arab Emirates)

## 201C

## 201D

## 201E

## 201F

G08-413  
Fabrication of  
Nanocomposites  
coatings containing  
Layered Double  
Hydroxides (LDH)  
nanoparticles via two  
Layer-by-Layer  
assembling  
techniques  
Pessan Luiz  
(Brazil)

G08-16  
Interpenetrating  
nanofibrous  
composite  
membranes for  
water purification  
Ma Hongyang  
(China)

G08-85  
High Barrier  
Nanocomposite  
Films for Food  
Packaging  
Applications  
Ajji Abdellah  
(Canada)

G12-148  
Rheology and  
dynamics of multi  
micro-/nanolayered  
polymers: A  
multi-scale  
investigation of  
interface/interphases  
and confinement  
effects towards a  
better controlling of  
coextrusion process  
Lamnawar Khalid  
(France)

G12-136  
Small Deformation  
Behavior of  
Thermoplastics  
during Hot  
Compaction  
Leal Andres  
(Switzerland)

G12-139  
Influence of Polymer  
-Particle-Interaction  
on the Flow Behavior  
of Highly Filled  
Plastics  
Benz Johannes  
(Germany)

S01-35  
Flow Characteristics  
of a Thermoset  
Photopolymer Resin  
in a Vat  
Polymerization  
Additive  
Manufacturing  
Process  
Hofstätter Thomas  
(Denmark)

S07-391  
The Application of  
LFRT-D process in  
IMM  
Lin Vincent  
(Taiwan)

S07-395  
Efforts on injection  
molded gas  
problems  
Ohmori Akihiro  
(Japan)

G16-78  
The Processing of  
Functional Polymer  
Composites Through  
Confinement,  
Assembly and  
Relaxation of  
Functional Inorganic  
Filler in Polymer  
Matrix  
Deng Hua  
(China)

G16-13  
Influence of N,N'-  
dicyclohexyl-2,6-  
naphthalene  
dicarboxamide  
self-assembly on the  
rheology, shear  
induced  
crystallization, and  
deformation behavior  
of isotactic-  
polypropylene  
Chang Baobao  
(Germany)

G16-51  
Structure and  
Orientation Evolution  
Mechanism of The  
Two-stage Solid Die  
Drawing Process  
Yang Qi  
(China)

Venue	101	201A	201B
Chair			
14:40-15:00		G04-407 Enzymatic Ring Opening Polymerization of Poly( $\epsilon$ -Caprolactone) by Modified Rice Husk Ash <u>Sacligil Nofar Dilara</u> (Turkey)	G06-124 Intercalation of p-aminobenzoic acid into Layered Cobalt hydroxide salt using a hydrothermal methodology: Synthesis, Characterization, and evaluation as potential modifier of polyethylene of absorption ultraviolet ray properties <u>Gomez Neffer</u> (Brazil)
15:00-15:20		G04-432 Synthesis of Temperature-Sensitive-Gel (TSG) Particles by Using Suspension Polymerization <u>Gong Jin</u> (Japan)	G06-129 Study on the Influences on Fiber Micro-structure Variations and the Connection to Final Shrinkage/Warpage on Long Fiber Reinforced Thermoplastics (FRT) Parts <u>Hsu Chia</u> (Taiwan)
15:20-	<b>Coffee Break</b>		
15:40			

Venue	101	201A	201B
Chair			
15:40-16:10		G02-150 Experimental investigation of a new type of interfacial instability in reactive multilayers from coextrusion process <u>Maazouz Abderrahim</u> (France)	G06-281 Synthesis and Fabrication of Nanoparticle Embedded Biodegradable Electrical Conductive Composite <u>Wang Jane</u> (Taiwan)

## 201C

## 201D

## 201E

## 201F

G08-289  
Silica Nanotube And  
Its Composites For  
Multi-Functional  
Polyolefin Protective  
Films  
Menceloglu Yusuf  
(Turkey)

G12-206  
Planar Elongational  
Viscosities of  
Polymer Melts  
studied with  
Primitive Chain  
Network  
Simulations  
Takeda Keiko  
(Japan)

S07-435  
Trend of vent type  
injection molding  
machine in Korea  
Joo Sang Kyu  
(Korea)

G16-79  
Temperature and  
time dependence on  
different properties of  
low-density  
polyethylene  
Phanthong Patchiya  
(Japan)

G08-298  
Evaluation of biaxial  
stretchability in  
polyethylene ter  
ephthalate film  
under various  
stretching  
method  
Kushizaki Yoshiyuki  
(Japan)

G12-246  
Synthesis of novel  
polymer  
nanocomposite for  
water-based drilling  
fluids  
Kamal Muhammad  
Shahzad  
(Saudi Arabia)

S07-436  
Mechanical  
properties of GFCF  
nylon injection  
molded parts  
Joo Sang Kyu  
(Japan)

G16-123  
Modeling  
morphology  
distribution within  
Injection molded  
parts  
Titomanlio Giuseppe  
(Italy)

## 201C

## 201D

## 201E

## 201F

G08-476  
Bioinspired  
Polyurethane-  
Acrylate Coatings:  
Tuning  
Superhydrophobicity  
From Processing  
Gerard Jean-Francois  
(France)

G12-181  
Milligram size  
Rheology  
Grizzuti Nino  
(Italy)

S01-97  
Mechanical analysis  
of the FDM Additive  
Manufacturing  
Process  
Agassant  
Jean-Francois  
(France)

G16-508  
Interior Anatomy of  
Polymers or Blends  
Crystallized with  
Periodic  
Surface-Relief and  
Birefringent Patterns  
Woo, Eamor M.  
(Taiwan)

Venue  
Chair

101

201A

201B

16:10-  
16:30

G04-448  
Ambipolar  
Electrochromic Arylene  
Diimides with  
Triphenylamine  
N-Substituents  
Hsiao Sheng-Huei  
(Taiwan)

G06-130  
Study of Nanofillers-  
Filled Polylactide/Poly  
(butylene succinate)  
Blend-based  
Bio-nanocomposites  
Chiu Fang-Chyou  
(Taiwan)

16:30-  
16:50

G04-451  
Synthesis of Copolymers  
with Incompatible  
Segments by Living  
Polymerizations and  
their Applications in  
Nanocomposites  
Huang Chih-Feng  
(Taiwan)

G06-168  
The Influence of  
Environmental Aging on  
the Material Properties  
of Back-Molded  
Composite Sheets  
Hüttner Matthias  
(Germany)

16:50-  
17:10

G04-478  
Comparison of selected  
industrial catalysts  
performance in  
polymerization of  
propylene in slurry and  
bulk phase to predict  
behavior of catalyst in  
bulk polymerization by  
doing polymerization in  
slurry phase  
Vasfi Vahid  
(Iran)

G06-169  
Correlation between  
Processing and  
Mechanical Properties of  
Composites with  
Organic Fillers  
Sälzer Philipp  
(Germany)



## 201C

## 201D

## 201E

## 201F

G08-344  
Development and application of stress-strain laws for oriented packaging film  
Tuinea-Bobe Cristina  
(United Kingdom)

G05-75  
Injection-Molded Poly(L-lactic acid)/ Poly(D-lactic acid) Blends: Thermal and Mechanical Properties  
Srithep Yottha  
(Thailand)

S01-36  
Investigation of Fiber -Matrix Interface of Additively Manufactured Thermosets with Respect to Chemical Composition  
Hofstätter Thomas  
(Denmark)

G16-154  
Preparation of a Collapsible, Strong and Highly Thermally Conductive Film Based on Edge-Functionalized Boron Nitride Nanosheets and Cellulose Nanofiber  
Fu Qiang  
(China)

G08-452  
Fabrication and Characterization of Polyethylene/ Sepiolite Nanocomposite Separator for Li Ion Battery  
Pircheraghi Gholamreza  
(Iran)

G05-117  
Improvement of flowability for polycarbonate by addition of low-molecular-weight polystyrene  
Yamaguchi Masayuki  
(Japan)

S01-41  
Advanced resins for stereolithography: in situ generation of silver nanoparticles  
Messori Massimo  
(Italy)

G16-158  
Preparation and properties of POSS-containing microparticles with tunable surface Morphology  
Fu Qiang  
(China)

G08-380  
Enhanced Performance of Cellulose Acetate/ Polyethylene Glycol (CA/PEG) with the Addition of Functionalized Carbon Nanotube (CNT) Prepared by Wet-Dry Method  
Nurkhamidah Siti  
(Indonesia)

G05-118  
Influence of Peroxide -Initiated Melt Grafting of Poly (lactic acid) onto Natural Rubber and Its Impact Modification of Poly(lactic acid)  
Pattamaprom Cattaleeya  
(Thailand)

S01-48  
Internal Fiber Structure of a High-Performing, Additively Manufactured Injection Molding Insert  
Hofstätter Thomas  
(Denmark)

G16-220  
Solid-state evolution of E/MMA-Na<sup>+</sup> ionomer' s morphology under dry and hydrothermal annealing  
Canevarolo Sebastião  
(Brazil)

Venue  
Chair

101

201A

201B

17:10-  
17:30

G04-500  
Relationship between  
Degree of  
Polymerization and  
Optical-and  
Thermal-Properties of  
Ordinary Bisphenol-A  
Polycarbonate Polymers  
Kato N.  
(Japan)

G06-178  
Fabrication and  
Characterization of  
Biodegradable PLA/  
PBSL/HAp  
Nanocomposites  
Chiu Fang-Chyou  
(Taiwan)

Venue

101

17:30- **Poster Presentations**

19:30

201C

201D

201E

201F

G08-492  
Combined UV-  
thermal stabilizers  
used in agricultural  
films and  
geomembranes  
Nazokdast Hosein  
(Iran)

G05-138  
A synergetic effect of  
adding OMMT and a  
reactive  
compatibilizer on the  
compatibilization of  
PA6/PDMS blends  
Zhang Cai-Liang  
(China)

S01-146  
Study and  
Development of 3D  
Printed Plastic Insert  
for Injection Molding  
of Automotive  
Interior Prototype  
Parts  
Pattarmaprom  
Cattaleeya  
(Thailand)

G16-255  
PTFE Stress-free  
strain induced by  
thermal treatment  
model and  
Simulation  
Guenoun Gabriel  
(France)

Wednesday, May 23

Venue 101

Chair

08:30-09:15 Polymer Nanocomposites for Optoelectronic and Bio-related Applications  
Wei Kung-Hwa

Chair

09:15-10:00 A brief history of micro injection moulding: challenges, technologies and opportunities  
Whiteside Ben

10:00-10:20 **Coffee Break**

Venue	101	201A	201B
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Chair

<p>10:20-10:50 G09-188          Mixing and demixing during the processing of concentrated suspensions and Nanosuspensions  <u>He Jing</u>          (USA)</p>	<p>G01-443          Injection molding with time modulation of mold surface temperature: analysis and modeling of pressure and temperature evolutions  <u>Titomanlio Giuseppe</u>          (Italy)</p>	<p>G06-290          Bio-based shape memory composites with close-to-body activation temperature  <u>Naguib Hani</u>          (Canada)</p>	
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<p>10:50-11:10 G09-21          Characterization of melt-mixing in extrusion: finite-time Lyapunov exponent and flow pattern structure  <u>Nakayama Yasuya</u>          (Japan)</p>	<p>G01-202          Warpage Study on Viscoelasticity Effect  <u>Chang Ashley</u>          (Taiwan)</p>	<p>G06-180          Study of Carbon nanotube-filled Poly (butylene Succinate)/ High Density Polyethylene Blend-based Nanocomposites  <u>Chiu Fang-Chyou</u>          (Taiwan)</p>	
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## 201C

G03-144  
Trade-off between  
filler dispersion and  
hysteresis  
Jana Sadhan  
(USA)

G03-143  
New Strategies of  
Silica and Carbon  
Black Dispersion in  
Tire Tread  
Compounds  
Jana Sadhan  
(USA)

## 201D

G13-209  
Production and  
properties of a  
beadfoam from the  
Engineering Polymer  
Polybutylene  
terephthalate  
(E-PBT)  
Standau Tobias  
(Germany)

G13-179  
Polymeric foams  
made of expanded  
particles building  
blocks  
Sorrentino Luigi  
(Italy)

## 201E

S01-109  
Redefining the  
Future of LNG  
Processing; Role of  
Additive  
Manufacturing  
Tade Moses  
(Australia)

S01-254  
Fusion-Bonding  
behavior of  
Plasticized Corn  
Proteins in Fused  
Deposition Modeling  
process  
Chauhier Laurent  
(France)

## 201F

S06-30  
Poly(Vinyl Alcohol)-  
Based Amphiphilic  
Nanogels by  
Non-Covalent Boric  
Acid Crosslinking  
Sosnik Alejandro  
(Israel)

S06-18  
Development of  
Electrochemical  
Biosensors for  
Simultaneous  
Detection of  
Dopamine and  
Ascorbic Acid Based  
on Carbon  
Nanotubes/  
Polyaniline  
Nanocomposites  
Sundararaj  
Uttandaraman  
(Canada)

Venue Chair	101	201A	201B
11:10- 11:30	G09-29 Evaluation of Distributive Mixing Performance of Fin Type Screw for Single-Screw Extruder <u>Kimura Koichi</u> (Japan)	G01-212 Strategies to preserve bio-based antimicrobial agents during extrusion and injection molding <u>Bruchmüller Matthias</u> (Germany)	G06-216 Evaluation of filler dispersion on UHMWPE/ GO nanocomposites produced by two routes: Extrusion and hot Press <u>Fechine Guilhermino</u> (Brazil)
11:30- 11:50	G09-193 Second Generation Extensional Mixing Elements for Single-and Twin-Screw Extruders: The Concept of Double Contraction <u>Maia Joao</u> (USA)	G01-268 Flow behavior of thermosplastic resin in the barrel of injection molding <u>Hirao Yuka</u> (Japan)	G06-223 Impact of nanosilica adding on the microstructure and thermo-mechanical properties of Polyethylene. Study of the materials resistance to thermo-oxidative ageing <u>Guichard Bryan</u> (France)
11:50- 12:10	G09-256 Investigation on the Fiber Compounding with a New Type of Compounding Machine <u>Heiderich Gilmar</u> (Germany)	G01-275 Injection Molding of Liquid Crystal Polymer on Al Plate with Anodic Aluminum Oxide Structure for Heterogeneous Bonding <u>Chen Chao-Chang</u> (Taiwan)	G06-228 Influence of acetic acid and glycerol on the oxygen barrier property of plasticized Chitosan/ OM-MMT nanocomposite films <u>Medina Jorge</u> (Colombia)

## 201C

## 201D

## 201E

## 201F

G03-102  
The effect of branching agent on the mechanical, processability and morphological properties of biodegradable poly (lactic acid) and natural rubber blown film through reactive melt blending  
Pattamaprom Cattaleeya  
(Thailand)

G03-121  
The Role of Enzyme in Accelerating Mechanical Stability and Reducing the Use of Ammonia in Concentrated Natural Rubber Latex  
Pattamaprom Cattaleeya  
(Thailand)

G03-96  
Online detection of storage-induced changes of rubber properties in the injection molding process  
Hutterer Thomas  
(Austria)

G13-200  
Optimizing Process Condition of PU Chemical Foaming: From Material Properties to Numerical Simulation  
Wang Joe  
(Taiwan)

G13-205  
Influence of low heat conductive inserts on morphology of foam injection molded parts  
Wunderlich Katharina  
(Germany)

G13-224  
Microwave processing of polymer bead foams  
Gensel Julia  
(Germany)

S01-267  
Adhesion of standard filament materials to different build platforms in material extrusion additive manufacturing  
Schuschnigg Stephan  
(Austria)

S01-270  
Development and Modeling of Design and Process Guidelines for FDM-Structures for the Partial Reinforcement of Hybrid Structures  
Hirsch Andre  
(Germany)

S01-271  
A method to evaluate the process specific warpage for different polymers in the FDM process  
Schumacher Christian  
(Germany)

S06-22  
Fabrication of cyclic block copolymer (CBC) for polymer microfluidics  
Tsao Chia Wen  
(Taiwan)

S06-33  
Multiple Stimuli-Responsive Nucleobase-Functionalized supramolecular polymeric micelles  
Tewabe Gebeyehu  
(Taiwan)

S06-37  
Cartilage Biocomposites  
Okamoto Masami  
(Japan)

Venue	101	201A	201B
Chair			
12:10-12:30	G09-425 Development of CNT/fluorine-based Polymer Nanocomposites by Supercritical Fluid Mixing <u>Kihara Shin-ichi</u> (Japan)	G01-321 Influence of rapid heat cycle injection molding on mechanical properties and microstructure of long glass fiber reinforced polypropylene <u>Lucchetta Giovanni</u> (Italy)	G06-229 Manufacturing Silk/Epoxy Composite Laminates: Challenges and Opportunities <u>Hamidi Youssef</u> (Morocco)

12:20-13:30 **Lunch Time**  
**IPP Board Meeting**

Venue	101	201A	201B
Chair			
13:30-14:00		G02-160 Extrusion of Large Diameter Pipes <u>Vlachopoulos John</u> (Canada)	G07-161 Multifunctional Liquid-core Fibers <u>Hufenus Rudolf</u> (Switzerland)
14:00-14:20		G02-11 An Integrated Computer System for Modeling and Optimization/Scale-up of Polymer Extrusion <u>Wilczyński Krzysztof</u> (Poland)	G07-297 Cellulose nanofibers, aerogels and sheath-core structures <u>Hsieh You-Lo</u> (USA)



## 201C

G03-159  
On the industrial measurements and numerical predictions of orientation changes undergone by reinforcement cords in tire manufacturing process  
Debbaut Benoit  
(Belgium)

## 201D

G13-226  
Bio-based Poly (butylene succinate) foaming by microcellular injection-molding: effect of N<sub>2</sub> solubility on cell morphology  
Ykhlef Nazim  
(France)

## 201E

S01-496  
Modelling 3D Printed Origami Metamaterial Using Representative Unit Cell (RUC)  
Naguib Hani  
(Canada)

## 201F

S06-396  
Injection moulding of pharmaceutical compounds- monitoring of drug recrystallisation  
Kelly Adrian  
(United Kingdom)

## 201C

G03-122  
Improvement of Rubber Aging Performance by Antioxidant Loaded Halloysite Nanotubes  
Wang Wencai  
(China)

## 201D

G05-166  
Structural and Physical Properties of PA6/SEBS-g-MA/PS Ternary Blends  
Ito Hiroshi  
(Japan)

## 201E

S04-385  
The effect of carbon fillers on the performance of PLA composites  
Pantani Roberto  
(Italy)

## 201F

G16-378  
Visualisation and Characterization of Process-Induced Crystallization in Injection Molded Parts  
Kuehnert Ines  
(Germany)

G03-191  
Study on Migration of Curatives in NR/EPDM Rubber Blend  
Bui Chuong  
(Vietnam)

G05-24  
Effect of Addition of Polyethylene on Rheological Responses under Elongational Flow for Polypropylene  
Yamaguchi Masayuki  
(Japan)

S04-14  
Ionic liquid-assisted energy-saving processing of starch-based electrically conductive films  
Xie Fengwei  
(United Kingdom)

G16-291  
The influence of sorbitol-type clarifiers on the non-isothermal crystallization of polypropylene at cooling rates used in processing  
Schawe Juergen  
(Switzerland)

Venue  
Chair

101

201A

201B

14:20-  
14:40

G02-28  
Experimental  
monitoring of resin fill  
distribution on full flight  
screw in twin screw  
extruder  
Taki Kentaro  
(Japan)

G07-357  
High-speed Melt  
Spinning of Sheath/Core  
Bicomponent Fibers of  
Poly(L-lactide)s with  
Different Molecular  
Weight  
Roungpaisan Nanjaporn  
(Japan)

14:40-  
15:00

G02-42  
Simulation Based  
Investigations On  
Dissipation Reduction In  
Grooved Melting Zones  
Using A High-Speed-  
Extruder  
Janßen Mirco  
(Germany)

G07-365  
PLLA/PDLA/PHBV  
blended fiber formation  
and fiber structure  
Shyr Tien-Wei  
(Taiwan)

15:00-  
15:20

G02-272  
Self-Optimizing Barrel  
Temperature Setting  
Control of Single Screw  
Extruders for Improving  
the Melt Quality  
Resonnek Verena  
(Germany)

G07-374  
Structure and Properties  
of High-Speed Melt  
Spun Polyurethanes with  
Different Composition  
and Molecular Weight of  
Soft-Segment  
Kikutani Takeshi  
(Japan)

15:20-  
15:40

Coffee Break

## 201C

## 201D

## 201E

## 201F

G03-258  
Shape Memory  
Behavior of NR/wax  
Nanocomposites  
Lai Sun-Mou  
(Taiwan)

G05-149  
Reactive multi  
micro-/nanolayered  
polymers from  
multilayer  
coextrusion:  
structure, dynamics  
and morphology  
Development  
Lamnawar Khalid  
(France)

G11-217  
Thermal  
Conductivity  
Measurement of  
Industrial Rubber  
Compounds using  
Laser Flash Analysis:  
Applicability,  
Comparison and  
Evaluation  
Gschwandl Mario  
(Austria)

G16-317  
Filler self-networking  
in epoxy/  
polyethersulfone  
composites via  
reaction-induced  
phase separation  
Shen Yucai  
(China)

G03-284  
Bio-inspired nacre  
structures for  
increased damping  
Naguib Hani  
(Canada)

G05-156  
Miscibility of  
Functional  
Polyethylene  
Oligomers in  
Polyolefins  
Robert Michaël  
(France)

G11-236  
Measurement of Gas  
-vent Clogging Ratio  
Using Mold for  
Evaluating Gas-vent  
Performance  
Tatsuno Michihiro  
(Japan)

G16-319  
Effect of processing  
parameters on barrier  
properties of PA-GnP-  
nanocomposites  
Boldt Regine  
(Germany)

G03-285  
Virtual Lifetime  
Prediction: Nonlinear  
Damage  
Accumulation for  
Elastomer  
Components in Finite  
-Element Simulations  
Rocker Simon  
(Germany)

G05-279  
Evaluation of DCP  
impact on PLA/PBS  
blend properties  
using an industrial  
scale twin-screw  
Extruder  
Lopez Ivan  
(Colombia)

G11-315  
Evaluation of  
Disintegration and  
Distribution of Long  
Glass Fiber Bundles  
in Pellets inside  
Melts Injected from  
Molding Machine  
Nozzle  
Wu Xiaobin  
(Japan)

G16-324  
Study of Bulk and  
Confined  
Crystallization of  
Ethylene-Vinyl  
Alcohol  
Freymond Clément  
(France)

Venue  
Chair

101

201A

201B

15:40-  
16:10

G02-431  
Relationship between  
flow conditions and  
weld lines strength in  
profile extrusion  
Carneiro O.  
(Portugal)

G07-313  
Correlation between  
Continuous Drawing  
Behavior in Ethanol and  
Structure and Properties  
of poly(ethylene  
terephthalate) Fibers  
Kikutani Takeshi  
(Japan)

16:10-  
16:30

G02-280  
Local Mean Age of Melt:  
New Approaches for Die  
Optimisation  
Kummerow Jan  
(Germany)

G06-251  
Phase Behavior of Poly(2  
-vinyl pyridine)-block-  
poly(4-vinyl pyridine)  
copolymer with Gold  
Nanoparticles  
Kim Jin Kon  
(Korea)

16:30-  
16:50

G02-359  
Mass Transfer during  
Polymer Devolatilization  
in a Twin-Screw  
Extruder  
Hirschfeld Stefan  
(Germany)

G06-274  
Electron Induced  
Polymer-Backbone-  
Hydroperoxides Trigger  
the Crosslinking of Glass  
Fibre Polypropylene  
Interphase  
Müller Michael  
(Germany)

## 201C

## 201D

## 201E

## 201F

G03-103

Influence of Layered Nanofillers on Thermal Degradation and Mechanical Properties of Polyacrylicester Polymer: Theoretical and Experimental Investigations  
Bhowmick Anil  
(India)

G12-409

Experimental and theoretical studies of the linear and nonlinear viscoelastic behaviors of PP/CNT nanocomposites  
Isayev Avraam  
(USA)

S05-222

High-Barrier Microlayered Tubes by Co-extrusion Layer Multiplication  
Maia Joao  
(USA)

G16-450

Orienting Silicon-Containing Block Copolymer Films with Perpendicular Cylinders via Entropy and Surface Plasma Treatment  
Ho Rong-Ming  
(Taiwan)

G03-325

Hybrid Nanocomposites of EPDM-Chlorobutyl Rubber Blends for Radiation and Hydrocarbon Environments  
Balachandran Meera  
(India)

G05-300

Crystallization behaviors of isotactic polypropylene (iPP)/ low crystallinity polypropylene (LCPP) blends at high cooling rates  
Hikima Yuta  
(Japan)

S05-273

Evaluation of Internal Structure and Engineering Properties of Polymer Blends by Special Melt Mixing Process  
Ito Hiroshi  
(Japan)

G16-480

Flow oriented microstructure of cylinder forming block copolymer for application to prosthetic heart valves  
Stasiak Joanna  
(United Kingdom)

G03-362

Effect of Compatibilizer Addition on the Morphology and Mechanical Properties of Thermoplastic Elastomers based on Recycled Polyethylene and Ground Tire Rubber  
Rodrigue Denis  
(Canada)

G05-366

Development of recycled-PET/PBT blend systems: Phase miscibility, crystallization behavior, thermal and mechanical properties  
Nofar Mohammadreza  
(Turkey)

S05-32

An effective method for the fabrication of microlens arrays with different curvatures  
Chang Chih-Yuan  
(Taiwan)

G16-494

Model studies for a better understanding of layer breakups during the nanolayer coextrusion process  
Sollogoub Cyrille  
(France)

Venue	101	201A	201B
Chair			
16:50-17:10		G02-392 Modification of Natural Rubber for High-Performance Bio-Based Fabric Coating <u>Pattamaprom Cattaleeya</u> (Thailand)	G06-288 Prediction of Moisture Saturation Levels for Vinylester Composite Laminates: A Data-Driven Approach for Predicting the Behavior of Composite Materials <u>Hamidi Youssef</u> (Morocco)
17:10-17:30		G02-422 Continuous extrusion of celluloid film <u>Dubois Charles</u> (Canada)	G06-316 Characterizations of Engineering Properties and Higher-order Structure of Injection molded GW-filled PP Composites <u>Sakakibara Fumiya</u> (Japan)
Venue	Taipei Grand Hotel		
18:30-21:00	Banquet Party		

## 201C

## 201D

## 201E

## 201F

G03-394

Injection Moulding  
of Liquid Silicone  
Rubber Foams  
Giesen Ralf-Urs  
(Germany)

G05-400

Morphological  
variations and  
properties of PLA-  
PBAT Bioblends  
reinforced with  
nanoclay  
Nofar  
Mohammadreza  
(Turkey)

S05-52

Advanced micro/  
nano manufacturing  
technology of  
polymer realized by  
multiple dividing and  
combining of  
polymer melt  
Yang Weimin  
(China)

G16-505

Control of the  
Nanostructured  
Morphology of  
Poly(L-lactide) in  
Multiphase Polymer  
Systems  
Gowd E. Bhoje  
(India)

G03-429

Elastomeros Cells as  
Sinks Seismic Joints  
for Contraction in  
Floors Expansion and  
Sliding  
Del Carpio Cecilia  
(Peru)

G05-489

Correlation between  
Rheology and  
Morphology of PA/  
COC Blends  
Nazockdast Hossein  
(Iran)

S05-77

Pelletization  
condition  
dependence of  
injection molded  
recycled plastic  
Yao Shigeru  
(Japan)

G16-73

Fracture Behavior of  
Solid Polymer  
Electrolyte  
Membranes with  
Different Ion  
Exchange Capacity for  
Fuel Cell  
Zhao Yunfeng  
(Japan)

Venue 101

Chair

08:30-09:15 Tyromer® Rubber Devulcanization:  
Enabling A Truly Circular Tire-To-Tire Recycling Economy  
Tzoganakis, Costas

Chair

09:15-10:00 Rheological and Foaming Behaviors of In-Situ Shrinking  
Microfiber Embedded Polymer Composites Rheological and  
Foaming Behaviors of In-Situ Shrinking Microfiber Embedded  
Polymer Composites  
Lee Patrick C.

10:00-10:20 **Coffee Break**

Venue 101 201A 201B

Chair

<p>10:20-10:50 G14-493 Melting kinetic model based on crystallite size distribution <u>De Almeida Olivier</u> (France)</p>	<p>G01-479 Visualization Analysis of Cascade Injection Molding Phenomena in Hot-runner System <u>Yokoi Hidetoshi</u> (Japan)</p>	<p>G06-501 Breaking High- Performance Fiber Processing Paradigm: Continuous Supernanofibers for the Ultratough Structural Composites <u>Dzenis Yuris</u> (USA )</p>
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<p>10:50-11:10 G14-470 Thermoforming Simulation of Heat Conductive Plastic Materials Using K-BKZ Model <u>Landsecker Kai</u> (Germany)</p>	<p>G01-341 Evaluation of Heating Performance and Its Impact on Surface Transcription by Rapid Heating Mold using Thin Electric Heater <u>Saito Takushi</u> (Japan)</p>	<p>G06-343 Mechanical and Biodegradable Properties of Poly (Butylene Succinate)/ Poly(lactic acid) Film containing Calcium Carbonate <u>Junsook Nantaya</u> (Thailand)</p>
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## 201C

G10-111  
Flow behavior of PP-polymer nanocomposites in injection molding hyperbolic dies  
Mitsoulis Evan  
(Greece)

G10-147  
Inter-Induction-Heating for Rapid Mold Temperature Control  
Liu Kwan-cyun  
(Taiwan)

## 201D

G13-323  
Preparation and Analysis of PMMA Nanocellular Foam  
Yeh Shu-Kai  
(Taiwan)

G13-233  
Effect of degree of substitution on the cellular structure and mechanical property of isotactic polypropylene/cellulose nanofibers nanocomposites foams  
Wang Long  
(Japan)

## 201E

S01-141  
Polymer Powders for Laser Sintering: Powder Production and Performance Qualification  
Schmid Manfred  
(Switzerland)

S01-318  
Optimization of Material Properties for Highly-Filled Thermoplastic Polymers used in Fused Filament Fabrication of Ceramics  
Cano Santiago  
(Austria)

## 201F

S02-403  
Novel photo/conductive organic fibers for flexible optoelectronics  
Machado Ana  
(Portugal)

S02-164  
Robot-Assisted Hot-Embossing Method for Making Plastic Nanostructures and Their Applications for Sensitive Biosensors  
Wei Pei-Kuen  
(Taiwan)

Venue Chair	101	201A	201B
11:10-11:30	<p>G14-474 Reactive rotomolding of polyamides and Polyepoxies <u>Gerard Jean-Francois</u> (France)</p>	<p>G01-351 Establishment of new molding system for long fiber reinforced thermosetting resin <u>Fujisaki Ken</u> (Japan)</p>	<p>G06-352 Efficacy of ultra low loading of modified graphene oxide on physico-mechanical properties of glycidol terminated polyurethane nanocomposites aiming to high performance Applications <u>Maji Pradip</u> (India)</p>
11:30-11:50	<p>G15-221 Crosslinked polyolefins using a modified filler <u>Uray Anna</u> (Austria)</p>	<p>G01-371 Application of Conformal Cooling to Reduce Cooling Time and Warpage of a U-Shaped Plate <u>Tseng S. C.</u> (Taiwan)</p>	<p>G06-370 Synergistic effect of organic and inorganic nano-UV additives for improving weather resistant property of thermoplastic polyurethane nanocomposite films <u>Adak Bapan</u> (India)</p>
11:50-12:10	<p>G15-283 Influence of molecular weight and crystalline structure on rheological behavior of controlled-rheology-polypropylene using viscosity modifiers <u>Hadimani Imam Khasim</u> (Saudi Arabia)</p>	<p>G01-377 Replication of nanosecond laser machined micro-features using ultrasonic injection moulding <u>Gulcur Mert</u> (UnitedKingdom)</p>	<p>G06-412 Application of response surface in thermal conductivity and tensile strength of recycled polyethylene thermal insulation composite with wood waste reinforced with clay and stipa ichu <u>Pampa Quispe Noe</u> (Peru)</p>

201C

201D

201E

201F

Chair

G10-174  
A New Anisotropic  
Flow Simulation for  
Compression  
Molding of  
Glass-mat  
Thermoplastics  
Favaloro Anthony  
(USA)

G13-286  
Study of  
Crystallization  
Behavior of  
Polypropylene and  
Polyethylene  
Terephthalate  
Nanofiber  
Composite  
Chen Yu Guang  
(Canada)

S01-364  
The fabrication of  
biodegradable  
inferior vena cava  
filter via 3D printing  
technology  
Wang Jane  
(Taiwan)

S02-307  
Temperature  
dependence of  
Birefringence and  
Stress-optical  
coefficient of Poly  
(methyl  
methacrylate)  
Takarada Wataru  
(Japan)

G10-252  
Numerical study  
and Shape  
Optimization of the  
Barrel to Nozzle  
Transition Region in  
an Injection  
Moulding Machine  
Kastner Clemens  
(Austria)

G13-294  
Contributing  
Mechanisms in  
Cellular Structure  
Development in  
Foam Injection  
Molding Process  
Park Chul  
(Canada)

S01-405  
Predicting of  
sintering parameters  
for selective laser  
sintering: the stable  
sintering region and  
chemical stability  
Schawe Juergen  
(Switzerland)

S02-367  
Evaluation of the  
electric field  
deterioration of  
ethylenic copolymers  
using the  
chemiluminescence  
method  
Yamada Rie  
(Japan)

G10-253  
Application of  
Non-Matching  
Mesh in Injection  
Molding  
Simulation  
Chiu Thomas  
(Taiwan)

G13-337  
3D Numerical  
Simulation for  
Polyurethane Foam  
Molding Process  
Chang Robert  
(Taiwan)

S01-503  
Microwave Post-  
Treatment for Binder  
-Jetting 3D Printing  
Technology  
Cheng Ting-Yu  
(Taiwan)

S02-499  
Effects of  
Encapsulants and  
Junction Temperature  
on Optical  
Degradation of LED  
Packages During High  
-Temperature Aging  
Chen Ssu-Yu  
(Taiwan)

Friday, May 25

Venue Chair	101	201A	201B
12:10-12:30	G15-390 Challenges in Up Scaling of Electron Induced Reactive Compounding Processes <u>Wagenknecht Udo</u> (Germany)	G01-399 Study on Liquid Crystal Polymer Molding of Off-Axial Aspherical Reflective Grating Optical Element by Injection Molding Process <u>Chen Chao-Chang</u> (Taiwan)	G06-423 On the influence of PCC shape, size and surface modification on the improvement of mechanical and rheological behavior of polymeric composites <u>Mohammadi Aliabadi Shirin</u> (Iran)

12:30- Lunch Time

Venue Chair	101	201A	201B
13:30-14:00		S05-237 Fabrication of an automatic UV-curing imprinting for microstructures replication <u>Yang Sen-Yeu</u> (Taiwan)	G03-287 Extrusion of polyamide-polyisobutylene vulcanizate blends with lubricants <u>Jayaraman Krishnamurthy</u> (USA)
14:00-14:20		S05-235 Fabrication of Microstructure by A Novel Flexible Heating Element that Uses Graphene-polymer Composite Heaters and Rolling Hot Embossing <u>Yang Sen-Yeu</u> (Taiwan)	G06-428 A Facile Supercritical Fluid-assisted Method to Enhance the Charge Storage Capability of Graphene Nanoplatelets -Polymer Nanocomposites <u>Park Chul</u> (Canada)

## 201C

G10-277  
Computational  
Analysis of  
Transport across  
Flake-Filled  
Composites of  
Realistic  
Microstructure  
Papathanasiou  
Thanasis  
(Kazakhstan)

## 201D

G13-381  
Development of  
Measurement  
Method for  
Determination of  
Dynamic Solubility  
Limits in Injection  
Foam Molding  
Kastner Clemens  
(Austria)

## 201E

S01-506  
The Study on  
Polypropylene  
Applied in Fused  
Deposition Modeling  
Dong Mu  
(China)

## 201F

S02-411  
Stretchable,  
Biocompatible,  
Self-Healing, and  
Adhesive Hydrogels  
for Strain Sensors and  
Human Motion  
Monitoring  
Applications  
Turng Lih-Sheng  
(USA)

## 201C

G10-338  
Multiscale  
simulation of  
polymer melt flow in  
a channel Analysis  
on states of well-  
entangled polymer  
chains  
Taniguchi Takashi  
(Japan)

## 201D

G12-418  
Thermodynamic  
Instability of  
Polymeric Liquids in  
Large-Amplitude  
Oscillatory Shear  
Flow From  
Corotational Maxwell  
Fluid  
Giacomin Alan  
(Canada)

## 201E

S01-266  
Effect of operating  
conditions on  
cooling and adhesion  
of parts produced by  
FDM/FFE  
Covas Jose  
(Portugal)

## 201F

S03-444  
Functional Polymers  
based on POSS  
Nanocomposites  
Kuo Shiao-Wei  
(Taiwan)

G10-342  
Achievements and  
Challenges of  
Predicting the  
Mechanical  
Performance of  
Weld Lines in  
Injection-molded  
Short Fiber-  
reinforced  
Thermoplastics  
Cruz Camilo  
(Germany)

G12-293  
Flow enhancemnet  
prediction for a  
biopolymer (human  
blood)  
Calderas Fausto  
(Mexico)

G13-389  
Numerical simulation  
and experimental  
validation of  
polyurethane foam  
injection molding  
Vincent Michel  
(France)

S03-363  
Highly structured  
graphene  
polyethylene  
nanocomposites and  
their electrical,  
thermal, mechanical  
and barrier  
properties  
Gaska Karolina  
(Sweden)

Venue	101	201A	201B
Chair			
14:20-14:40		<p>S05-369 Modified lyocell process for producing biopolymer fiber <u>Lidhure Ashwini (India)</u></p>	<p>G06-491 Effect of Multi-Walled Carbon Nanotubes (MWCNTs) on Microstructure Development and its Influence on Electromechanical Properties of TPU/SEBS/CNT Blend Nanocomposites <u>Nazokdast Hossein (Iran)</u></p>
14:40-15:00		<p>S05-410 Functionally Graded and Multidirectional Deposition of Polymer Nanofibers by an Innovative Electrospinning Technique <u>Rizvi Ghaus (Canada)</u></p>	<p>G06-495 Hydrogen Sulfide Gas Sensor Derived by Hybrid Material of Bacterial Cellulose Nanocrystals Based Surface-Loaded Silver Nanoparticles and Alginate-Molybdenum Trioxide Nanoparticles <u>Manuspiya Hathaikarn (Thailand)</u></p>
15:00-15:20		<p>S05-477 Electrospinning polymer membranes based on biobased and biodegradable polymers <u>Gerard Jean-Francois (France)</u></p>	<p>G06-507 Comparison of Fiber Orientation Analysis Methods in Avizo <u>Blanc Rémi (France)</u></p>
15:20-15:40	Coffee Break		

## 201C

G10-404  
Analytical and  
Numerical Methods  
for Optimizing  
Screw Geometries of  
an Injection  
Molding Plasticizing  
Unit with Focus on  
Standard  
Three-Section  
Screws  
Altmann Dominik  
(Austria)

G10-414  
Development of a  
new coupled  
viscoelastic solver in  
OpenFOAM®  
Nobrega J. Miguel  
(Portugal)

G10-486  
Buckling  
phenomenon in  
thin-walled injection  
molded parts  
Poszwa Przemysław  
(Poland)

## 201D

G12-402  
Study on the  
interfacial roughness  
of coextruded  
polymers in terms of  
the slip  
Sugimoto Masataka  
(Japan)

G12-481  
PMMA grafted PBA  
nanoparticles  
dispersed in PMMA:  
Viscoelasticity and  
sol-gel transition in  
the molten state  
Sukumaran  
Sathish K.  
(Japan)

G05-510  
Effect of nucleating  
agent incorporation  
on mechanical,  
morphological, and  
rheological  
properties of in-situ  
copolymer  
polypropylene and  
PP/POE Blends  
Al-Otaibi  
Mansour N.  
(SaudiArabia)

## 201E

G13-401  
Foaming Behaviors  
of Polysulfone and  
Polyethersulfone  
with Supercritical  
CO<sub>2</sub> and Argon:  
Observation of  
Nano-structures on  
Cell Walls  
Park Chul  
(Canada)

G13-417  
Tuning the  
Reinforcement  
Viscosity in PP/PBT  
Nanofibrillation and  
its Effect on  
Foaming  
Zhao Chongxiang  
(Canada)

G13-421  
Highly Filled TPO  
Composites Before  
and After Foaming:  
Microstructure and  
Mechanical  
Performance  
Chang Eunse  
(Canada)

## 201F

S03-433  
Renewable Energy  
Production by  
improving  
Piezoelectric Behavior  
of Poly(vinylidene  
fluoride) using Nano  
technology  
Mohammadialiabadi  
Shirin  
(Iran)

S03-445  
Thermal, Mechanical  
and Optical Properties  
of Cellulose Triacetate  
Nanocomposites:  
Effects of Cellulose  
Nanofibers  
Wu Chang Mou  
(Taiwan)

S03-447  
Lighting Led Bulbs :  
The Patent Profile  
Hung Shiu-Wan  
(Taiwan)

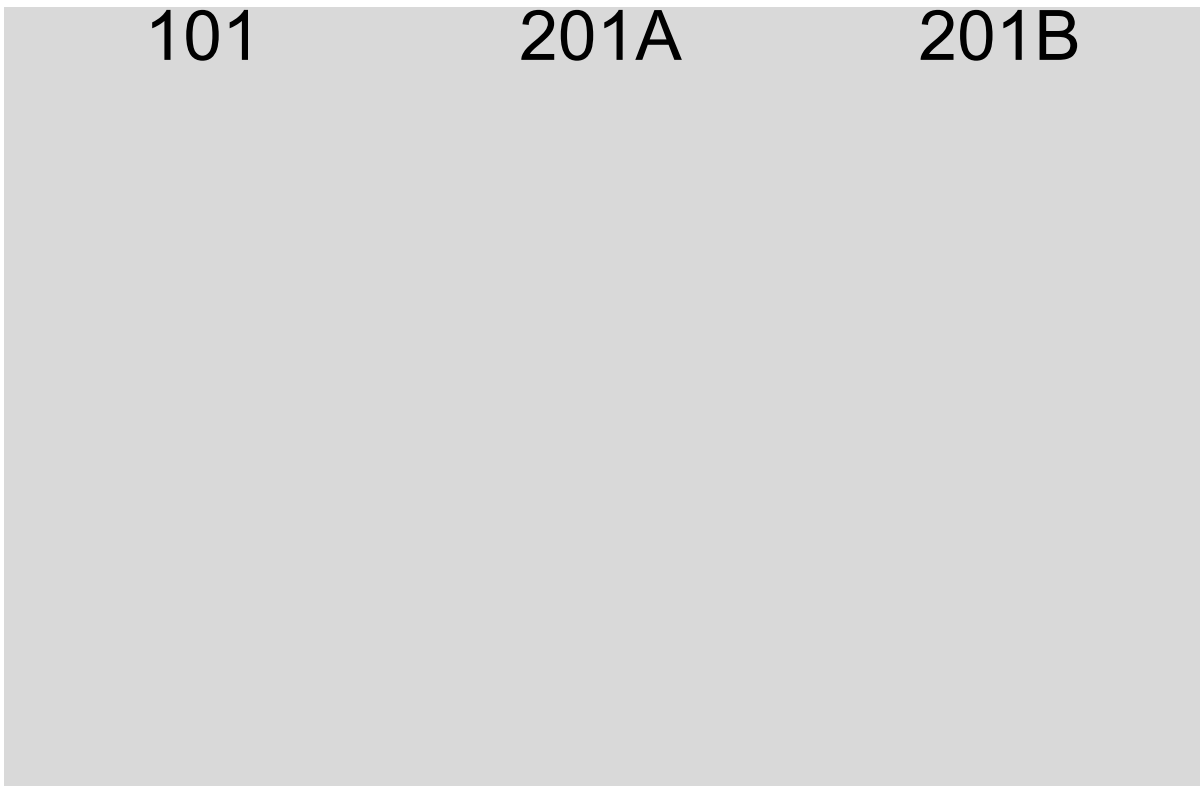
Venue  
Chair

101

201A

201B

15:40-  
16:10



Venue

16:10- Closing Ceremony  
16:30



201C

201D

201E

201F

S01-175  
Material Extrusion  
Additive  
Manufacturing of  
Polypropylene/  
Carbon Fiber  
Composites  
Holzer Clemens  
(Austria)

G13-509  
Effects of Foaming  
and Filler Orientation  
on the Electrical and  
Thermal  
Conductivities of  
CNT and GnP  
Composites  
Park Chul B.  
(Canada)

G11-89  
Investigation on  
the P-V-T-C Property  
Characterization and  
Its Importance on IC  
Encapsulation  
Material Application  
Huang Chao-Tsai  
(Taiwan)

Friday, May 25