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Part I Conference Schedule

Tuesday, May 23rd, 2017

Time	Activity	Location
08:30-19:30	Registration	Lobby of Jin Wan Li Hotel

Notes: Please inform us your paper ID when you register.

Wednesday Morning, May 24th, 2017

Time	Activity	Location
08:30-08:35	Opening Ceremony	3 rd Floor, Meeting Room 1 Jin Wan Li Hotel
08:35-09:20	Keynote Speech 1: Time-temperature superposition principle for impact strength and strain rate concentration factor Speaker: Prof. Nao-Aki Noda	
09:20-10:05	Keynote Speech 2: Measuring the mechanical properties of polymers and composite materials at macro- and nano-scales Speaker: Prof. Esteban Broitman	
10:05-10:30	Pose for a Group Photo and Coffee Break	
10:30-11:15	Keynote Speech 3: Stimuli responsive block copolymers: Their self-assembled nanostructures and nanocomposites Speaker: Prof. Vural Butun	
11:15-12:00	Keynote Speech 4: Advanced lightweight textile performs composite materials Speaker: Dr. Abbasali Saboktakin	

Wednesday Morning, May 24th, 2017

Time	Activity	Location
09:00-12:00	Poster Presentations	3 rd Floor, Meeting Room 1

Wednesday Noon, May 24th, 2017

Time	Activity	Location
12:00-13:00	Lunch	2 nd Floor, Restaurant

Wednesday Afternoon, May 24th, 2017

Time	Activity : Oral Presentations	Location
14:00-18:00	Session 1: Polymers: Structural and Mechanical Properties	3 rd Floor, Meeting Room 1
	Session 2: Polymers and Composite Materials: Applications in Medicine	3 rd Floor, Meeting Room 2
	Session 3: Polymers: Electrical Properties, Energy Applications & Optical Properties	3 rd Floor, Meeting Room 3

Wednesday Evening, May 24th, 2017

Time	Activity	Location
18:00-19:00	Dinner	2 nd Floor, Restaurant

Thursday Morning, May 25th, 2017

Time	Activity : Oral Presentations	Location
08:00-12:15	Session 4: Polymer and Composite Materials: Processing	3 rd Floor, Meeting Room 1
08:00-12:00	Session 5: Non-polymeric Novel Composite Materials	3 rd Floor, Meeting Room 2

Thursday Noon, May 25th, 2017

Time	Activity	Location
11:45-13:00	Lunch	2 nd Floor, Restaurant

Thursday Afternoon, May 25th, 2017

Time	Activity : Oral Presentations	Location
14:00-18:00	Session 6: Polymers: Interfaces, Permeation, Adsorption & Adhesion Properties	3 rd Floor, Meeting Room 1
14:00-15:45	Session 7: Theoretical Calculations and Modeling	3 rd Floor, Meeting Room 2
16:00-18:00	Special Session: Future of Polymers and Composite Materials in China and the World	

Thursday Evening, May 25th, 2017

Time	Activity	Location
18:00-20:00	Welcome Banquet	2 nd Floor, Restaurant

大会日程

2017年5月23日, 星期二

时间	日程安排	地点
08:30-19:30	注册报到	金万丽酒店大堂

- 注: 1) 会议期间请随身携带参会胸牌,
2) 注册时请告知您的文章编号。

2017年5月24日, 星期三上午

时间	日程安排	地点
08:30-08:35	开幕式	金万丽酒店3楼 1号会议室
08:35-09:20	主题报告 1: Time-temperature superposition principle for impact strength and strain rate concentration factor 演讲人: Nao-Aki Noda 教授	
09:20-10:05	主题报告 2: Measuring the mechanical properties of polymers and composite materials at macro- and nano-scales 演讲人: Esteban Broitman 教授	
10:05-10:30	Pose for a Group Photo and Coffee Break	
10:30-11:15	主题报告 3: Stimuli responsive block copolymers: Their self-assembled nanostructures and nanocomposites 演讲人: Vural Butun 教授	
11:15-12:00	主题报告 4: Advanced lightweight textile performs composite materials 演讲人: Abbasali Saboktakin 博士	

2017年5月24日, 星期三上午

时间	日程安排	地点
09:00-12:00	张贴报告	金万丽酒店3楼 1号会议室

2017年5月24日, 星期三中午

时间	日程安排	地点
12:00-13:00	午餐	2楼餐厅

2017年5月24日，星期三下午

时间	日程安排:口头报告	地点
14:00-18:00	口头报告 1: 聚合物的结构和力学性能	3楼1号会议室
	口头报告 2: 聚合物和复合材料的医学应用	3楼2号会议室
	口头报告 3: 聚合物的电气性能、能源应用及光学性质	3楼3号会议室

2017年5月24日，星期三晚上

时间	日程安排	地点
18:00-19:00	晚餐	2楼餐厅

2017年5月25日，星期四上午

时间	日程安排:口头报告	地点
08:00-12:15	口头报告 4: 聚合物及复合材料的加工	3楼1号会议室
08:00-12:00	口头报告 5: 非聚合物—新型复合材料	3楼2号会议室

2017年5月25日，星期四中午

时间	日程安排	地点
11:45-13:00	午餐	2楼餐厅

2017年5月25日，星期四下午

时间	日程安排: 口头报告	地点
14:00-18:00	口头报告 6: 聚合物的界面、渗透、吸附及粘接性能	3楼1号会议室
14:00-15:45	口头报告 7: 理论计算和建模	3楼2号会议室
16:00-18:00	特别讨论会: 高分子和复合材料在中国和世界的未来	

2017年5月25日，星期四晚上

时间	日程安排	地点
18:00-20:00	欢迎晚宴	2楼餐厅

Part II Keynote Speeches

Keynote Speech 1: Time-temperature Superposition Principle for Impact Strength and Strain Rate Concentration Factor

Prof. Nao-Aki Noda

Department of Mechanical Engineering, Kyushu Institute of Technology, Japan



Abstract of the speech: In this study, the impact properties of engineering polymers were considered in terms of the time-temperature superposition principle. High-speed tensile testing is now being recognized as a standard testing method for evaluating the impact strength of engineering materials. The brittle–ductile transition of engineering polymer is affected by the temperature and loading speed. The dynamic strain rate at the notch root was analyzed as a major factor to control viscoelastic property. In this aspect, the strain

rate concentration factors are investigated in comparison with stress concentration factor which has been used for evaluating fatigue strength notched metal specimen. Then, the master curve for the final fracture elongation was expressed in terms of the strain rate at the notch in conjunction with shift factors. From the master curve the fracture behavior can be predicted for the wide ranges of impact speed and temperature. The usefulness of the elastic analysis was also confirmed by comparing with the elastic-plastic results.

Keynote Speech 2: Measuring the Mechanical Properties of Polymers and Composite Materials at Macro- and Nano-scales

Prof. Esteban Broitman

Thin Film Physics Division, IFM, Linköping University, Sweden



Abstract of the speech: Nowadays, there is permanent increase in the use of polymers materials to substitute metals and ceramics. Advantages like excellent mechanical properties with low density, resistance to solvents, low price, and being able to be easily designed in complicated configurations and produced at industrial scale make them the material to be selected by the modern industry.

During the last decade, polymers have been also developed in applications at micro- and nano-scale. There are many devices such as polymer light-emitting devices, polymer nanofibers, and biomaterial applications. For this kind of micro- and nano-structures, conventional mechanical characterization techniques like tensile, compression and bending tests are inapplicable due to the size of the samples. Nanoindentation technique, widely used to characterize the mechanical properties of hard materials, has started to be used also to characterize polymers [1].

In this talk, the application of indentation techniques to measure the hardness, elastic modulus, and creep of polymers is discussed. A comparison between nanoindentation results and macroscopic properties is explored. The recent literature on polymer nanocomposites will be also reviewed. Finally, indentation size effects are also critically examined. Challenges and future perspectives in the application of nanoindentation to characterize mechanical properties of polymer materials are suggested.

[1] “Indentation Hardness Measurements at Macro-, Micro-, and Nanoscale: A Critical Overview” E. Broitman, *Tribology Letters* **65** (2017) 23 (open access article).

Keynote Speech 3: Stimuli Responsive Block Copolymers: Their Self-assembled Nanostructures and Nanocomposites

Prof. Vural Butun

Department of Chemistry, Eskisehir Osmangazi University, Turkey



Abstract of the speech: We have good experience on the synthesis and characterizations of different types of stimuli-responsive copolymers which have great response to external conditions. They can self-assemble and form various nanostructures (micelles, reverse-micelles, flower micelles, gelation, flocculation, etc.) depending on a change of pH, temperature, ionic strength etc. They are getting more and more attention for various applications such as in biomedical technology (as antibacterial agents, drug carriers, controlled releasing systems etc), in sensor technology, in cosmetics... Recently, we have focused on poly(glycidyl methacrylate) based block copolymers and their derivatisations with morpholine, piperazine and tertiary amine type reactants which provide surface activity, water solubility and response to external stimuli. Additionally, derivative polymers can also be converted into different structures with further reactions. They can self-assemble and form core-shell spherical micelles depending on solution conditions due to presence of a block with LCST behaviour. Important outcomes of these copolymers are their usage as (i) stabilisers in heterogeneous polymerisations, multi-responsive microgels, nanometal dispersions, (ii) source for novel cross-linked micelles, hydrogels, antibacterial materials, LbL nanofilms, etc. On the other hand, we also succeeded to prepare a novel multi-responsive microgel of water soluble monomer and “microgel-liposome” system having a potential in drug targeting/releasing applications.

Keynote Speech 4: Advanced Lightweight Textile Preforms & Composite Materials

Assist. Prof. Abbasali Saboktakin

Department of mechanical engineering, University of Sistan and Balochestan, Iran



Abstract of the speech: In recent years, textile composite in particular three dimensional composites have been developed for various advanced aerospace applications because of their light weight, high specific strength and stiffness. Textile composites are fabricated of dry textile preforms with different configurations, e.g. two or three dimensional woven, braiding, knitting, and stitching. These preforms are placed in a mold and then impregnated by resin using resin transfer molding or vacuum assisted resin transfer molding techniques.

This talk aims to present about textile preforms and composites. The talk has been organized to provide an opportunity for scientists and researchers from academia working in the area of composite materials and engineers and designers from industry to increase their knowledge and learn about new and innovation technologies in textile preforms and composites.

The content of the speech include: manufacturing processes, state-of-art research & technology on textile preforms and composite, mechanical properties of textile preforms & composite & their performance assessment, modeling, structural integrity assessment, damage growth, non-destructive testing of reinforced composites, fatigue and failure assessment, examination of the suitability of 3D textile reinforcement towards the production of complex shaped preform and composite for other applications such as automotive & marine and more.

Part III Poster Session

Materials Provided by the Conference Organizer:

- X Racks & Base Fabric Canvases (60cm×160cm, see the figure below)
- Adhesive Tapes or Clamps

Materials Provided by the Presenters:

- Home-made Posters or Posters printed by the Conference

Requirement for the Posters:

- Material: not limited, can be posted on the Canvases
- Size: smaller than 60cm×160cm
- Content: for demonstration of the presenter's paper



Requirement for the Presenters:

- Stand beside his/her Poster through the Session, and discuss with the readers about his/her paper

Time: May 24th, 09:00-12:00

Location: 3rd Floor, Meeting Room 1

Paper ID	Title	Author
PCM1989	TiO ₂ and MgO doped hydroxyapatite coatings as possible candidate for orthopaedic implants	Alina Vladescu
PCM1961	The research on improvement of color value of bio-based polyamides 56 fiber	Shouyun Zhang
PCM1962	Tailored process for spinning fine denier bio-based polyamide 56 fibers	Shouyun Zhang
PCM1979	Effects of preparation methods on the mechanical and tribological properties of grapheme modified HNBR composites	Dejiang Yang
PCM1990	Interpenetrated three dimensional metal organic framework constructed from thiophene-2,5-dicarboxylate and 1,4-bis(rapheme-1-yl)-2,5-dimethylbenzene	Okan Zafer Yesile
PCM2005	Improvement of SLIPS through hydrophobization of PVDF-HFP	Yu-Min Yang
PCM2023	Electrochemical deposition of Hap on porous Ti6Al4V and its in vitro bioactivity and corrosion behavior	Cosmin Cotrut
PCM2026	Collapse characteristics of a circular-cross-section CFRP Pipe structure member using finite element analysis	Dae Young Kim
PCM2038	Structural characterization of three-dimensional coordination polymer with Zn(II)-3,3-dimethylglutarate	Hakan Erer
PCM2045	2-fold Interpenetrated 3D structure based on 3, 3- dimethylpentadionic acid and 1,4-bis(imidazole-1ylmethyl) benzene	Mürsel Arici

PCM2047	Effect of biobased fillers nature on biodeterioration of hybrid polyethylene composites by mold fungi	Petr Pantyukhov
PCM2108	Novel surface active (co)polymers from glycidyl methacrylate-based polymers and their self-assembly behaviors	Vural Butun
PCM2112	Bifunctional organic dye as cross linker in core of diblock copolymer	Zeynep Dikmen
PCM2116	New quaternary and sulfobetain-piperazine based linear homopolymers and their aqueous solutions	Zeynep Dikmen
PCM2117	Phase changing polymeric ionic liquid (PIL) with CO ₂ capture abilities	Swati Sundararaja
PCM2119	Preparation of copper thin film mask by sputtering technique assisted by polymer mask photolithography	Chupong Pakpum
PCM2127	Dioxygen binding in fe-mof-74: first-principles parameterization and application to multiscale studies	Hajime Hirao
PCM2142	Alkali-laccase modification of pterocarpus angolensis wood fibres as promising fillers for eco-friendly polymer composites	Keagisitswe Setswalo
PCM2148	Preparation and luminescent properties of the antibacterial materials of the La ³⁺ doped Sm ³⁺ -Hydroxyapatite	Yuguang Lv
PCM2179	Kinetic studies on the curing reaction of hydroxyl-terminated polybutadiene based polyurethane binder system by FT-IR measurements	Jiahu Guo
PCM2180	Complementary methods for optical, structural and mechanical analysis of rare-earth ions(Er ₂ O ₃ , Tm ₂ O ₃) doped B ₂ O ₃ -ZnO-TiO ₂ glasses	Idris Kabalci
PCM2189	Preparation of stable superamphiphobic surfaces on Ti-6Al-4V substrates by one-step anodization	Lili Wang
PCM2200	Study of photocatalytically active molecular sites in saponite-TiO ₂	Kazuomi Numata
PCM2214	A study on PVDF-HFP gel polymer electrolyte for lithium-ion batteries	Wen Liu
PCM2248	The dissolution behavior of polyether sulfone in diglycidyl ether of bisphenol-An epoxy resins	Jinli Zhou
PCM2252	Structural ATR-IR analysis of cellulose fibers prepared from a NaOH complex aqueous solution	Yanping Yang
PCM2254	Preparation and characterizations of flame retardant polyamide 66 fiber	Yuanyuan Li
PCM2256	Improved adhesion performances of aramid fibers with vinyl epoxy via supercritical carbon dioxide modification	Minglin Qin

Part IV Oral Presentations

Devices Provided by the Conference Organizer:

- Laptops (with MS-Office & Adobe Reader)
- Projectors & Screen
- Laser Sticks

Materials Provided by the Oral Presenters:

- PowerPoint (Note: Please show your paper ID as PCM**** in the last page)

Duration of each Presentation (Tentatively):

- 10 Minutes for Presentation, 3-5 Minutes for Q&A

Time:

- 14:00-18:00 on May 24th
- Full day of May 25th

Location:

- Meeting Room 1 of Jin Wan Li Hotel
- Meeting Room 2 of Jin Wan Li Hotel
- Meeting Room 3 of Jin Wan Li Hotel

NOTE:

All technical session rooms are equipped with computers, LCD projectors, screens, laser pointers and microphones. Please have your presentation ready in a memory stick, and save it in the computer of your corresponding session about **15 minutes** before the start time (07.45 hours for the morning sessions, and 13:45 hours for the afternoon sessions). You also need to tell the Session Chair (before the start of your Session) that you are present.

Session 1: Polymers: Structural and Mechanical Properties*Session Chair: Prof. Esteban Broitman, IFM, Linköping University, Sweden***Time:** 14:00-18:00, Wednesday Afternoon, May 24th**Location:** 3rd Floor, Meeting Room 1

Paper ID	Time	Paper Title	Author
PCM2143	14:00-14:15	Fracture energy and toughness of air plasma oxidized PDMS-PDMS bonding	Chengfu Chen
PCM2031	14:15-14:30	Effect of phenolic resin viscosity on the mechanical and wet-frictional properties of carbon fiber reinforced phenolic composites	Jinsil Cheon
PCM2100	14:30-14:45	Studies on the moisture-sensitive shape memory effect of zwitterionic copolymers	Zhankui Mei
PCM1948	14:45-15:00	Reinforcing effects of styrenic-based thermoplastic elastomer/pineapple leaf fiber composites contributing from surface treatments and compatibilizer	Sunan Saikrasun
PCM2013	15:00-15:15	Friction forces in cellulose fibers	Martinho Machado Junior
PCM2109	15:15-15:30	3D Structure from polycaprolactone filament	Pengfei Zhang
PCM2000	15:30-15:45	Improving creep resistance behaviors of highly explosive-filled polymer composites with two-dimensional nanoplatelets	Guansong He
PCM2029	15:45-16:00	Processing and characteristics of carbon fiber/abs composites reinforced with long fiber thermoplastics of different lengths	Daegyun Hwang
	16:00-16:15	Coffee Break	
PCM2059	16:15-16:30	Influence of drill helical direction on exit damage development in drilling carbon fiber reinforced plastic	Yu Bai
PCM2053	16:30-16:45	Reducing melt viscosity of PP with phthalimide and fabricating long glass fiber reinforced PP	Jianxiong Li
PCM2079	16:45-17:00	Standardization of composite wound dressings from polylactic acid and alginate fibers for better absorbency and enhancing the integrity of structure	MuhammetUzun
PCM2153	17:00-17:15	Evolution of linear viscoelastic behavior of silica-filled nature rubber during curing	Jian Wu

PCM2230	17:15-17:30	Effects of rare earth oxide additive on surface and tribological properties of polyimide composites	Zihe Pan
PCM2167	17:30-17:45	The application of PA/CF in Stab Resistance Body Armour	Yi Liu
PCM1953	17:45-18:00	An assessment on the thermo-mechanical and structural attributes of green graphene based water soluble polymer electrolyte composites	Sabiha Sultana

Session 2: Polymers and Composite Materials: Applications in Medicine

Session Chair: Prof. Javier González Benito, Universidad Carlos III de Madrid, Spain

Time: 14:00-18:00, Wednesday Afternoon, May 24th

Location: 3rd Floor, Meeting Room 2

Paper ID	Time	Paper Title	Author
PCM1995	14:00-14:15	Surface properties of solution blow spun PSF/TiO ₂ nanocomposites and their relation with E. coli adhesion	Javier González Benito
PCM2187	14:15-14:30	Facile synthesis and morphological insight into biocompatible smart hydrogels with unique nano-to-macro scale hierarchical pattern	Adeeba Shakeel
PCM2024	14:30-14:45	Properties and antibacterial activities of Poly(HEMA-co-AM)/Chitosan/Poly(Vinyl Alcohol) IPN hydrogel films	Sayant Saengsuwan
PCM2102	14:45-15:00	Inorganic nanoparticles embedded electrospun nanofibers of methacrylate polymers: used for water sanitation	Mehdihasan Shekh
PCM2051	15:00-15:15	Application of water-dispersible and biocompatible nano-composite material "Polyaniline/MWCNTs/Starch" for non-enzymatic detection of cholesterol	Vineeta Gautam
PCM2124	15:15-15:30	Preparation and application of poly(acrylic acid)/calcium phosphate hybrid nanogels as pH-responsive drug carriers	Yingchao Han
PCM1960	15:30-15:45	Halloysite nanotubes containing acrylic acid/polyvinyl alcohol hydrogels for controlled release studies of etirizine dihydrochloride	Ghulam Abbas
PCM2140	15:45-16:00	Surface polymerization on ordered mesopores toward composite nanocarriers for improved drug delivery	Jixi Zhang
	16:00-16:15	Coffee Break	

PCM2068	16:15-16:30	Core/shell nanocomposite for biomedicine and environmental safety	Oksana Gorban
PCM2137	16:30-16:45	Morphology of Polycaprolactone/Needle-shaped hydroxyapatite (PCL/HAN) nanocomposite blends using ultrasound assisted melt blending	Suffiyana Akhbar
PCM2061	16:45-17:00	Fabrication of amorphous electrospun medicated- nanocomposites using a Teflon-based concentric spinneret	Qing Wang
PCM1964	17:00-17:15	Functionalization of medical implants by biocomposite based hydroxyapatite coatings	Alina Vladescu
PCM2022	17:15-17:30	Biomedical nanocomposites used for prosthetic restorations	Cosmin Cotrut
PCM2125	17:30-17:45	Biocomposite capable of self-powered and self-regulated fluidic delivery (of drug, nutrient, coolant, energy...)	Jimmy Xu
PCM2126	17:45-18:00	Hydroxyapatite coating for carbon/carbon composites	Leilei Zhang

Session 3: Polymers: Electrical Properties, Energy Applications & Optical Properties

Session Chair: Assoc. Prof. Boxin Zhao, University of Waterloo, Canada

Time: 14:00-18:00, Wednesday Afternoon, May 24th

Location: 3rd Floor, Meeting Room 3

Paper ID	Time	Paper Title	Author
PCM1983	14:00-14:15	Raman spectroscopy and GIWAXD analysis of electrospayed organic photovoltaic material	Takeshi Fukuda
PCM2042	14:15-14:30	An all solid flexible energy conversion and storage film for SERS signal up-regulations	Qi An
PCM2192	14:30-14:45	Electroluminescence from single emissive layer OLED based on (Poly[(9,9-dioctylfluorenyl-2,7-diyl)-co-diphenylamine]) derivatives	Seong Shan Yap
PCM2062	14:45-15:00	A novel approaches an enhancement of ammonium salts-based cellulose derivative proton conductive polymer electrolytes for protonic battery applications	Ahmad Salihin Samsudin
PCM2074	15:00-15:15	Directly collected natural fibers based composites for energy storage applications	Aamir Razaq

PCM2015	15:15-15:30	Characterization of nanocomposite ion-conductive hydrogel to enable soft self-powered sensors	Weiwei Zhao
PCM2172	15:30-15:45	Development and utilization of conductive nanofillers in electrically conductive adhesives	Boxin Zhao
	15:45-16:15	Coffee Break	
PCM2103	16:15-16:30	Loading-rate-modulated pulse responses and synaptic plasticity of semiconducting/electrolyte polymer heterojunction	Fei Zeng
PCM1992	16:30-16:45	Polymer composite films with size-selected metal nanoparticles	Vladimir Popok
PCM2010	16:45-17:00	Preparation and characterization of polymer nanocomposites	Pratima Parashar Pandey
PCM2093	17:00-17:15	Study of urea-silicate composites	Tamara Petkova
PCM2084	17:15-17:30	Synthesis of fluorescent 2,5-di(2-pyridyl)thiazolo[5,4-d]thiazole Dye Functionalised Poly(4-vinylbenzyl Chloride)	Zeynep Dikmen
PCM2114	17:30-17:45	CdSe, CdSe/CdS quantum dot synthesis and stabilization in dye functionalized polymer	Zeynep Dikmen
PCM2229	17:45-18:00	Functional Ceramics/Polymer films by Photo Reaction of Chemical Solution Process for Flexible Devices	Tetsuo Tsuchiya

Session 4: Polymer and Composite Materials: Processing

Session Chair: Dr. Debashish Mukherji, Max-Planck Institut für Polymerforschung, Germany

Time: 08:00-12:15, Thursday Morning, May 25th

Location: 3rd Floor, Meeting Room 1

Paper ID	Time	Paper Title	Author
PCM2094	08:00-08:15	Polysilicon acetals from green feedstock materials	Ertugrul Sahmetlioglu
PCM2020	08:15-08:30	EVA-Cu nanocomposites prepared by solution blow spinning and its characterization	Jorge Teno
PCM1950	08:30-08:45	Biodegradable nanoporous microspheres by RAFT and UV irradiation	Ildoo Chung
PCM1971	08:45-09:00	Pattern deposition of polymer from a volatile solution	Mohammad Abo-Jabal

PCM2048	09:00-09:15	Degradation kinetics of ethylene-octene copolymer/wood flour biocomposites in dependence to filler content	Petr Pantyukhov
PCM2044	09:15-09:30	Construction, structural diversity and photoluminescence properties of 5-nitroisophthalate coordination polymers with 1,2-bis(imidazole) linkers	Mürsel Arici
PCM2049	09:30-09:45	The puzzle of polymer solvation in mixed good and mixed poor solvent mixtures	Debashish Mukherji
PCM1958	09:45-10:00	The Effect of ingredients mixing sequence in rubber compounding on the formation of bound rubber and crosslink density of natural rubber	Abu Hasan
	10:00-10:15	Coffee Break	
PCM1996	10:15-10:30	Solution blow spun PMMA based nanocomposites filled with TiO ₂ nanoparticles	Morena Iorio
PCM2110	10:30-10:45	DNA-polymer conjugation and DNA-guided particle self-assembly	Hao Tang
PCM2039	10:45-11:00	Polymeric nanocomposites based on cyclodextrin-modified titanium oxide nanoparticles	José Ramón Isasi
PCM2041	11:00-11:15	Polyazulene based materials for heavy metal ions detection	Eleonora Ungureanu
PCM2115	11:15-11:30	Recycling of waste pet-bottles using dimethyl sulfoxide and hydrotalcite catalyst	Vivek Sharma
PCM2016	11:30-11:45	The influence of thermo-hygro-mechanical treatment on the micro- and nanoscale architecture of wood cell walls using small- and wide-angle X-ray scattering	Juan Guo
PCM2078	11:45-12:00	Enhanced electrorheological properties of elastomers containing coupling agent modified tio ₂ particles	Xufeng Dong
PCM2210	12:00-12:15	Preparation and properties of silicon-based functional materials by thiolene click reaction	Zhengjian Qi

Session 5: Non-polymeric Novel Composite Materials*Session Chair: Assoc. Prof. Alina Vladescu, National Institute for Optoelectronics, Romanian***Time:** 08:00-12:00, Thursday Morning, May 25th**Location:** 3rd Floor, Meeting Room 2

Paper ID	Time	Paper Title	Author
PCM2151	08:00-08:15	Near-infrared emitting Bi ₂ Ga ₄ O ₉ :Cr ³⁺ system: a new candidate for ratiometric optical thermal sensing	Michele Back
PCM2057	08:15-08:30	Effect of Al doping on structural, magnetic and optical properties of ZnCo nanoparticles	Muhammad Naeem Khan
PCM2055	08:30-08:45	Influence of pre-heat treatments on the cyclic oxidation behavior of IN 617 superalloy	Khalil Al-Hatab
PCM2071	08:45-09:00	On the microstructure, hardness and wear behavior of Al-Fe-Cr/Al composite materials prepared by selective laser melting	Nan Kang
PCM2091	09:00-09:15	Palladium nano particles as reusable catalysts in the synthesis of N-aryl sulfonamides under mild reaction conditions	Mehdi Khalaj
PCM2232	09:15-09:30	Effect of silicon content on preparation and coagulation performance of a novel poly-silicic-metal coagulant from coal gangue	Jianfeng Li
PCM2086	09:30-09:45	A strategy for improving the mechanical properties of thin film metallic glass materials by nanocomposite microstructure evolution	Jyh-Wei Lee
PCM2096	09:45-10:00	Microwave plasma assisted cleaning and deposition processes for future semiconductor technology	Stephan Altmannshofer
	10:00-10:15	Coffee Break	
PCM2121	10:15-10:30	Composite-based surface modification of Mg alloys for controlling their corrosion	Guosong Wu
PCM2066	10:30-10:45	New multifunctional zirconia composite nanomaterials – from electronics to ceramics	Igor Danilenko
PCM2076	10:45-11:00	Ge containing optical thin chalcogenide films	Plamen Petkov
PCM2198	11:00-11:15	Development of GeSn and related semiconductor thin films for next generation optoelectronic applications	Osamu Nakatsuka
PCM2155	11:15-11:30	Adsorption of lysozyme by alginate based composite beads	Jiwei Li

PCM2244	11:30-11:45	Greener Synthesis of Nanomaterials	Daisuke Ito
PCM2067	11:45-12:00	Use of plasma methods for synthesis of nanocomposites materials	Mohamed Abdou Djouadi

Session 6: Polymers: Interfaces, Permeation, Adsorption & Adhesion Properties

Session Chair: Assoc. Prof. Gongping Liu, Nanjing Tech University, China

Time: 14:00-18:00, Thursday Afternoon, May 25th

Location: 3rd Floor, Meeting Room 1

Paper ID	Time	Paper Title	Author
PCM1988	14:00-14:15	Selective transport of target ions facilitated by the tuned ionophore based polymeric bi-membranes	Grzegorz Lisak
PCM2003	14:15-14:30	Perfluorinated block-copolymers for dry proton exchange membranes	Anja Mueller
PCM2118	14:30-14:45	Organic-inorganic composite materials for membrane separation	Gongping Liu
PCM2144	14:45-15:00	Synthesis methacrylamide/divinylbenzene/graphite Composite for separation and preconcentration of some trace element	İbrahim Narin
PCM2178	15:00-15:15	High performance UV and thermal cure hybrid epoxy adhesive	Chunfu Chen
PCM2171	15:15-15:30	Open space analysis in polymers and other insulating materials using positronium	Kiminori Sato
PCM2101	15:30-15:45	Dynamics of polymer interfaces studied by x-ray photon correlation spectroscopy	Taiki Hoshino
PCM2077	15:45-16:00	Application of one-factor response surface methodology for preparation of thiolated sodium alginate	Muhammd Hanif
	16:00-16:15	Coffee Break	
PCM2095	16:15-16:30	Conversion of rice husks to activated carbon-gel composite for applications in the adsorption of Cu (II) ions and Congo red dye	Kien-Woh Kow
PCM2088	16:30-16:45	Technical exploration and evaluation of engineering polymers as direct thickeners for CO ₂ -fracturing and CO ₂ -enhanced oil recovery	Yongan Gu
PCM2212	16:45-17:00	Study moisture absorption of starch based biocomposites reinforced with water hyacinth fibers	Hairul Abral

PCM2139	17:00-17:15	Quantitative determining interface information of nano-dielectric by synchrotron radiation small-angle X-ray scattering	Xiaoxu Liu
PCM2231	17:15-17:30	Oil in water pickering emulsion stabilized by thermal responsive nano-SiO ₂	Zhiping Du
PCM2141	17:30-17:45	Adsorption of Bovine Serum Albumin on poly(lactide)-poly(ethylene glycol) amine surface	Turkan Kopac
PCM1970	17:45-18:00	Self-healing corrosion protective coatings by electro-spinning	Amin Fioruzi

Session 7: Theoretical Calculations and Modeling

Session Chair: Prof. Murat TAŞ, Ondokuz Mayıs University, Turkey

Time: 14:00-15:45, Thursday Afternoon, May 25th

Location: 3rd Floor, Meeting Room 2

Paper ID	Time	Paper Title	Author
PCM2099	14:00-14:15	Computational exploration of porous coordination polymers and other materials	Hajime Hirao
PCM2184	14:15-14:30	Conformational transition and tribological performance modulation of sparsely and densely packed self-assembled monolayers under electrical stimuli	Xiao Ma
PCM2098	14:30-14:45	Point defects and defect-induced optical response in ternary LiInSe ₂ crystals: First-principles insight	Yanlu Li
PCM1973	14:45-15:00	Inorganic polymers based on,3,3,5,5- azobenzenetetra-carboxylate	Murat Tas
PCM2235	15:00-15:15	Molecular dynamics simulation of rupture mechanism in nanorod filled polymer nanocomposites	Yangyang Gao
PCM2227	15:15-15:30	Large-scale molecular-dynamics simulation of the anti-freezing proteins immersed in water	Shuji Ogata
PCM2212	15:30-15:45	Dry sliding wear behaviour of plasma spray Zn-Sn coating onto mild steel	O.P. Oladijo

Special Session: Future of Polymers and Composite Materials in China and the World

We are calling for experts who are interested in this topic. If you're interested, please kindly come to 3rd Floor, Meeting Room 2. Prof. Esteban Broitman will chair this special session, it's a free session, and everybody is welcome to give his /her own idea without time limit.

Part V Hotel Information

1. Hotel Information

Guangzhou Jin Wan Li Business Hotel



Website: <http://www.jwl168.com/index.php>

Address: No. 429, Shou Gou Ling Road, Tianhe District, Guangzhou(广州市天河区瘦狗岭路429号)

Tel: 020-62933888; **Fax:** 020-66218788

How to get to the hotel

1. From **Guangzhou Baiyun International Airport** (In Chinese: 广州白云国际机场)

(A) By Metro: about 1 hour and 20 minutes

- Take the North Branch of Line 3 at Airport South (机场南站).
- Alight at the 10th Stop (Guangzhou East Station) (广州东站).
- Exit from **Exit J** and walk for about 1.8 kilometers until you see the Hotel Building

(B) By drive or taxi

About 31 kilometers, 40 minutes of driving without traffic jam.

Approximate taxi fare is 150 Yuan (Based on the shortest driving distance).

2. From **Guangzhou South Railway Station** (in Chinese: 广州南站)

(A) By Metro: about 1 hour and 51 minutes

• Take Line 7 towards Higher Education Mega Center (大学城) at Guangzhou South Railway Station.

- At the 4th stop (Hanxichanglong) (汉溪长隆站), transfer to Line 3 towards Tianhe Coach Terminal(天河客运站).

- Alight at the 11st Stop (Huashi) (华师站).
- Exit from **Exit E** and walk to get on No. 4/ No. 11 Guang-Zeng Bus Line;
- Alight at the 1st Stop (East of Guangyuan Tianshou Road) (广园天寿路口东)
- Walk for 2.6 kilometers until you see the Hotel Buiding.

(B) By drive or taxi

About 30 kilometers, 35 minutes of driving without traffic jam.

Approximate taxi fare is 90 Yuan (Based on the shortest driving distance).

3. From **Guangzhou Railway Station** (In Chinese: 广州火车站)

(A) By Metro: about 50 minutes

- Take Line 2 towards Guangzhou South Station (广州南站) at Guangzhou Railway Station.
- At the 3rd stop (Gongyuanqian) (公园前站), transfer to Line 1 towards (Guangzhou East Station) (广州东).
- Alight at the 7th Stop (Guangzhou East Station) (广州东).
- Exit from **Exit J** and walk for about 1.8 kilometers until you see the Hotel Buiding

(B) By drive or taxi

About 14 kilometers, 14 minutes of driving without traffic jam.

Approximate taxi fare is 40 Yuan (Based on the shortest driving distance).

4. From **Guangzhou East Railway Station** (in Chinese: 广州东)

(A) By Bus: about 20 minutes

- Get on No. 32 bus/ No. 27 bus/ No. 778 bus / No. 39 bus / No. 298 bus / No. 560 bus at the Bus Terminal of Guangzhou East Railway Station (东汽车客运站)
- Alight at the 1st Stop (Shougouling) (瘦狗岭).
- Walk for about 900 meters until you see the Hotel Buiding

(B) By drive or taxi

About 2 kilometers, 6 minutes of driving without traffic jam.

Approximate taxi fare is 10 Yuan (Based on the shortest driving distance).

P.S.: For foreign participants, please show this picture to the taxi driver if you take a taxi:

Show to the Taxi Driver

请送我到

(Qing song wo dao) / please take me to

广州金万丽商务酒店/ Guangzhou Jin Wanli Business Hotel

广州市天河区瘦狗岭路 429 号

No. 429, Shou Gou Ling Road, Tianhe District, Guangzhou

Tel: 020-62933888; Fax: 020-66218788

Map of the Hotel:

