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2018 Global Conference on Polymer and Composite Materials (PCM 2018)

April 10-13, 2018, Kitakyushu, Japan

Part I Conference Schedule

Tuesday, April 10, 2018

Time	Activity	Location
09:00-19:30	Registration	1F Kitakyushu International Conference Center

Notes: Please inform us your paper ID when you register (For example: PCM1234).

Wednesday Morning, April 11, 2018

Time	Activity	Location
08:30-08:35	Opening Ceremony	2F International Conference Room (國際會議室) (Group Photo: 1F)
08:35-09:15	Keynote Speech 1- <i>Biodegradable and Edible Starch-based Composites</i> Speaker: Prof. Long Yu	
09:15-09:55	Keynote Speech 2- <i>The Characterization of Polymers and Composite Materials by Nanoindentation: A Critical Overview</i> Speaker: Prof. Esteban Broitman	
09:55-10:20	Pose for a Group Photo and Coffee Break	
10:20-11:00	Keynote Speech 3- <i>Contact Analysis and Simulation of Rolled Plastic Film Used for Roof Ventilation in Japanese Greenhouses</i> Speaker: Prof. Nao-Aki Noda	
11:00-12:00	Poster Presentations-Part A	1F, Room 11
	Poster Presentations-Part B	1F, Lounge

Wednesday Noon, April 11, 2018

Time	Activity	Location
12:00-13:00	Lunch	1F, Event Hall

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Wednesday Afternoon, April 11, 2018

Time	Activity : Oral Presentations	Location
13:30-18:30	Session 1 : Applications in Medicine	2F, International Conference Room
13:30-18:30	Session 2: Mechanical, Thermal, and Electrical Properties	2F, Room 21 A/ B
13:30-18:15	Session 3: Processing and Characterization	2F, Room 22

Wednesday Evening, April 11, 2018

Time	Activity	Location
18:30-19:30	Dinner	1F, Event Hall

Thursday Morning, April 12, 2018

Time	Activity : Oral Presentations	Location
08:30-12:15	Session 4: Theoretical Calculations and Modelings	2F, Room 21 A/B
08:30-12:15	Session 5: Carbon-Polymer Composites	2F, Room 22

Thursday Noon, April 12, 2018

Time	Activity	Location
12:00-13:00	Lunch	1F, Event Hall

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Thursday Afternoon, April 12, 2018

Time	Activity: Oral Presentations	Location
13:30-18:15	Session 6: Novel Applications	2F, Room 21 A/B
13:30-18:15	Session 7: Nanomaterials and Nanocomposites	2F, Room 22

Thursday Evening, April 12, 2018

Time	Activity	Location
18:30-20:00	Welcome Banquet & Prizes Ceremony	Station Hotel Kokura

Friday, April 13, 2018

Time	Activity
08:30-13:30	Group Tour Kokura Castle- Kokura Garden - Matsumoto Seicho Memorial Museum

Part II Keynote Speeches

Keynote Speech 1: *Biodegradable and Edible Starch-based Composites*

Speaker: Prof. Long Yu

South China University of Technology, Guangzhou, China;

Director, Sino-Singapore International Joint Research Institute, Guangzhou Knowledge City, China

Aims: The aim of this work is to develop biodegradable and edible starch-based materials, in particular to reinforce the starch-based materials using biodegradable and edible agents, such as cellulous or starch crystals or self-reinforce techniques.

Methods: Various conventional processing techniques such as extrusion, injection compression molding, and casting, as well as some new techniques such as reactive extrusion, have been adapted for processing starch-based polymers.



Results: The starch-based materials reinforced with natural fibres and cellulous or starch particles have been developed to various environmentally friendly composites. The hydrophilic properties of starch provide the advantage of compatibility with these nature fillers.

Conclusions: Starch crystals, both micro- or nano- size, can be used as reinforce elements to improve the mechanical properties of starch-based materials. As expected, there are good interface between matrix and reinforce agent since chemically they have same structure.

Keynote Speech 2: *The Characterization of Polymers and Composite Materials by Nanoindentation: A Critical Overview*

Speaker: Prof. Esteban Broitman

SKF Research & Technology Development, 3430 DT Nieuwegein, The Netherlands

Abstract: During the last decade, novel polymers and nanocomposite materials have been developed for applications as micro- and nanodevices. In these applications, 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 metals and ceramics has started to be used also to characterize polymers and composite materials. Recently, a review has been published by the author comparing mechanical measurement techniques at different scales: *“Indentation Hardness Measurements at Macro-, Micro-, and Nanoscale,”* Tribology Letters 65 (2017) 23.



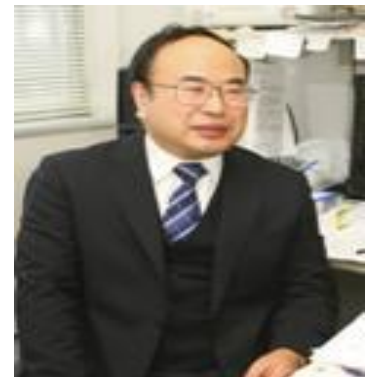
In this talk, the application of indentation techniques to measure the hardness, elastic modulus, and creep of polymers and composite materials is discussed. A comparison between nanoindentation results and macroscopic properties is offered. Finally, indentation size effects and typical mistakes in the measurements of these materials are also critically examined. Challenges and future perspectives in the application of nanoindentation to characterize mechanical properties of polymers and composite materials are suggested

Keynote Speech 3: *Contact Analysis and Simulation of Rolled Plastic Film Used for Roof Ventilation in Japanese Greenhouses*

Speaker: Prof. Nao-Aki Noda

Department of Mechanical and Engineering, Kyushu Institute of Technology, Japan

Abstract: Greenhouses are capable of producing a variety of high-value crops year-round. A novel Japanese greenhouse design is gaining popularity because of its automated roll-up ventilation system that is integrated into the roof. However, due to the frequent movement of the roll-up system, the plastic film deteriorates rapidly and typically lasts for only three or four months. Therefore, in this paper, the contact damage on the plastic film investigated considering the rolling contact analysis and experiment including the influence of pipe surface roughness. This study investigated the rolling contact damage in four types of plastic film used to cover automatically ventilated greenhouses. The mechanical damage under static and rolling contact was evaluated by FEM analysis. In addition, creases and line scars in the plastic film were generated by a newly designed rolling contact machine. The damage was also examined by microscopy techniques. We found that film deformation and failure were closely related to stretching and creasing, and these processes were observed at the microscopic level. An experimental device was developed to further study the damage to greenhouse film due to the roll-up movement. We concluded that film deformation and failure were closely related to the film thickness reduction, stretching, creasing and the roughness of the arch pipe. With decreasing the surface roughness by using coating pipe, the number of linear scars decreases by significantly.



Part III Poster Presentations

Materials Provided by the Conference Organizer:

- Display Boards (594mm wide ×841mm long)
- Pushpin

Materials Provided by the Presenters:

- Home-made Posters

Requirement for the Posters:

- Material: not limited
- Size: A1 size portrait (594mm wide ×841mm long) or similar
- Content: for demonstration of the presenter's paper

Poster Presentations-Part A

Time: April 11, 11:00-12:00

Location: 1F, Room 11

Paper ID	Title	Author
PCM2307	Synthesis and characterization of a novel polyborosilazane for SiBNC ceramic	Zhang Chenyu
PCM2335	Modification of glass fibre using pyrolytic carbon coating for microwave heating applications	Wei Dai
PCM2344	Infiltration behavior of liquids over fibres or woven	Miguel-Angel Martinez
PCM2357	Experimental study on bending behaviors of ancient building timber beams strengthened with near-surface mounted FRP sheets	Zhaoyang Zhu
PCM2364	Molecular dynamics study on glycolic acid in the physiological salt solution	Shigeki Matsunaga
PCM2400	Formation of hybrid nanocomposites polymethylolacrylamide/silver	Elena Shchitovskaya
PCM2430	Electrochemical, morphological and biological evaluation of electrochemically formed PEDOT/gold composite	Katarzyna Krukiewicz
PCM2450	Corrosion performance of chemically modified polymer coatings applied on mild steel	Punita Mourya
PCM2451	Synthesis and characterization of P3HT-Sb ₂ S ₃ composites with interesting optoelectronic properties.	María Elena Nicho Díaz

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PCM2455	Impact strength and heat deflection temperature of poly(ethylene terephthalate) copolymer containing bis(dimethyl-2-hydroxyethyl) tetraoxaspiro undecane	Kwan Han Yoon
PCM2456	Bottom fire behaviours of thermally thick natural rubber latex foam	Shuwen Wang
PCM2462	Surfactant mediated graphene/gold nanoparticle@ polyaniline composite nanofibers for visible light active photocatalytic activity	Moon Yong Lee
PCM2470	High performance organic photodetector utilizing photomultiplication through spatial confinement of optical sensitizer	Min Su Jang
PCM2481	Electrochemical immobilization of silver nanoparticles into electropolymerized polymer matrix	Lidia Kolzunova
PCM2500	Efficient ternary polymer solar cells via the enhanced charge transport approach two donor polymers with similar valence bands	Jihoon Lee
PCM2501	PC ₆₁ BM-assisted merged annealing method for efficient inverted planar perovskite solar cells	Yanliang Liu
PCM2503	Surface-modified PCBM for improved moisture resistance in inverted perovskite solar cells	Hangoma Pesi Mwitumwa
PCM2533	Diamond-like carbon coated polyethylene terephthalate bottles for packaging application	Jong Chul Seo
PCM2551	A universal processing additive for various types of polymer solar cells	Hyo Sung Choi
PCM2561	α -CsPbI ₃ perovskite nanocrystals for photodiode application: High detectivity and reliability	Kyu Min Sim
PCM2563	Changes of air permeability and moisture absorption capability of the wood by organosolv pretreatment	Chun Won Kang
PCM2564	Numerical modelling in friction stir lap joining of aluminium alloy and carbon-fiber-reinforced-plastic sheets	Hee Seon Bang
PCM2565	Friction stir lap joining of automotive aluminium alloy and carbon-fiber-reinforced plastic	Atanu Das
PCM2570	Polymer-derived ceramic coating for carbon steel in oxidizing environments	Nguyen Minh Dat
PCM2574	Development of conducting polymer-based bioelectronic device platform for efficient purification and detection of cancer cells	Yu Sheng Hsiao
PCM2581	Direct patterned single-layer graphene electrodes based organic thin film transistors in solution process	Do Kyung Kim
PCM2586	Study on carboxymethylation of regenerated cellulose fibers	Gyu Dong Lee

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PCM2592	Wet etchant-assisted surface smoothing of partially cross-linked poly(4-vinylphenol) gate insulators for organic thin-film transistors	Jin Hyuk Kwon
PCM2579	Modelling the failure of near-edge impacted carbon fibre-reinforced composite subjected to shear loading	Jakub Sedek
PCM2392	Mechanical and physical properties of concrete modified with natural rubber latex	Pheerawat Plangoen
PCM2602	Preparation of the PVDF/PAR composites having piezoelectric properties by using fibrous assembly method	Seung Goo Lee

Poster Presentations- Part B

Time: April 11, 11:00-12:00

Location: 1F, Lounge

Paper ID	Title	Author
PCM2326	Effect of halloysite nanotubes on the structure and properties of carbon fibre reinforced poly(methyl methacrylate) composite	Kristina Zukiene
PCM2327	Fabrication of multifunctional polyester fabrics by using fluorinated polymer coatings	Yu-Min Yang
PCM2328	Preparation of flame retardant polyurethane composites containing microencapsulated of melamine polyphosphate	Chin-lung Chiang
PCM2330	Preparation of fire resistant rubber by using regenerated of nitrile butadiene colloid	Cheng-Chien Wang
PCM2366	Electronic and magnetic properties of the rare-earth intermetallic compounds RRu_4Sn_6 (R = Nd, Sm, Gd, Tb, Dy and Ho)	Neil E. Koch
PCM2410	The Microstructure and tensile properties of sic fiber reinforced AlFeSi matrix composite	Yue Ma
PCM2449	Optical characteristics of WO_3/ZnO nanocomposites for electrochromic device application	Su Hua Yang
PCM2486	The conformational stability of DNA hairpin structure with non-canonical Watson-Crick base pair on the multi-dimensional free energy landscape	Hyun Jung Yoon
PCM2488	Crystal structure evolution and multicolor tunable phosphor of Europium doped in $Sr_{9-x}La_{1+x}(PO_4)_7-x(SiO_4)_x$	Dorim Kim
PCM2489	Structural, electronic properties and surface morphology of $LaNiO_{3-x}$ films on $SrTiO_3$ (001) substrates by pulsed laser deposition	Dong Hun Kim
PCM2490	Growth and photoluminescence properties of $SrLaMgTaO_6$ double perovskite thin film by pulsed laser deposition	Jung Hyun Jeong

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PCM2491	Synthesis and characterization of BaFe ⁻² (PO ₄) ₂ powders and thin films	Beon Sung Jung
PCM2492	Dual-mode manipulating multicenter photoluminescence in a Single-phased Ba ₉ Lu ₂ Si ₆ O ₂₄ :Bi ³⁺ ,Eu ³⁺ phosphor to realize white light/tunable emissions	Yue Guo
PCM2493	Structure–property relationship in Eu ³⁺ doped CdMoO ₄ : A super red emission phosphor	Ran Weiguang
PCM2494	Synthesizing and enhancing white emission of GdNbO ₄ :Dy ³⁺ phosphors	Junpeng Xue
PCM2502	Exploring the growth mechanism for lead-halide perovskite for solar cell application	Yongchao Ma
PCM2506	Study on the ordered peptide monolayers for novel nano-systems	Xinxin Wang
PCM2507	Study on environmentally friendly super-hydrophobic thin films made with Lauric Acid	Hwa Min Kim
PCM2532	Structural and optical properties of ZnO obtained by mechanosynthesis	Laura Lorena Díaz Flores
PCM2571	Au/bulk GaN Schottky junctions with an AlN passivation layer grown by atomic layer deposition	Byung Joon Choi
PCM2297	An experimental study on the mechanical properties of NSUHSCC using polyethylene fiber and steel fiber	Tian-Feng Yuan
PCM2572	Experimental and numerical investigation of adhesively bonded single lap joints of laminated composite materials	Ferhat Kadioglu

NOTE: If you want to make a poster presentation but your paper ID is not included in the list, please contact the organizing committee to arrange it.

Part IV Oral Presentations

Devices Provided by the Conference Organizer:

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

Materials Provided by the Oral Presenters:

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

Duration of each Presentation (Tentatively):

- 12 Minutes for Presentation, 2-3 Minutes for Q&A

NOTE:

All technical session rooms are equipped with laptop, LCD projectors, screens, laser pointers and microphones. For presenters who don't send the PowerPoint to the Conference Secretary, please have your presentation ready in a memory stick, and save it in the laptop of your corresponding session about **15 minutes** before the start time (08:15 for the morning sessions, and 13:15 for the afternoon sessions). You also need to tell the Session Chair (before the start of your Session) that you are present.

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Session 1: Applications in Medicine

Session Chair: Prof. Yaw Kuen Li, Department of Applied Chemistry, National Chiao Tung University, Taiwan

Time: 13:30-18:30, Wednesday Afternoon, April 11

Location: 2F, International Conference Room

Paper ID	Time	Paper Title	Author
PCM2296	13:30-13:45	Tailorable drug capacity of dexamethasone-loaded conducting polymer matrix	Katarzyna Krukiewicz
PCM2306	13:45-14:00	Synthesis of pH/redox dual responsive polylactide nanocarriers for drug delivery applications	Chih Kuang Chen
PCM2589	14:00-14:15	Composite nanostructure as multi-drug carriers with targeting and tumor-penetrating functions	Yaw Kuen Li
PCM2597	14:15-14:30	The combination technology of reversible PEGylation and polypseudorotaxane formation: Sustained and controllable release system of insulin	Taishi Higashi
PCM2534	14:30-14:45	Capillary microfluidics derived drug eluting microparticles for transarterial chemoembolization (TACE) of liver cancer	Su Geun Yang
PCM2521	14:45-15:00	Thai silk fibroin: steps toward biomedical applications	Siriporn Damrongsakkul
PCM2482	15:00-15:15	Investigation of thermal cracking and phenomena of ophthalmic lens coating based on some plastic materials by using variety analytical methods	Nobuyuki Tadokoro
PCM2508	15:15-15:30	Material conformity and bactericidal properties of high frequency pulse modulated plasma and low-frequency pulse excited plasma	Hiroshi Okawa
PCM2549	15:30-15:45	Bacterial polymer – polyhydroxyalkanoate – a promising material for biomedical applications	Maciej Guzik
PCM2459	15:45-16:00	Nanocomposite based on gold nanoparticles for environmental applications	Paulina Abrica González
	16:00-16:15	Coffee Break	
PCM2416	16:15-16:30	Biocompatibility of electrospun three-dimensional PLA-PCL micro/nanofibrous composite scaffolds	Xufeng Dong

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PCM2424	16:30-16:45	Selective metallization of biocompatible poly(dimethylsiloxane) by electroless deposition after a laser treatment	Stephan Armyanov
PCM2338	16:45-17:00	Biopolymer- A beginning towards back to nature	Shina Gautam
PCM2435	17:00-17:15	Development of advanced non-toxic radiation shielding material useful for broad application spectrum.	Sarika Verma
PCM2432	17:15-17:30	Preparation and properties of one kind of plastic scintillators which can be used to neutron/gamma pulse shape discrimination	Shufan Chen
PCM2484	17:30-17:45	A self-assembled fluorescent nanoprobe for detection of GSH and dual-channel imaging	Li-Ya Niu
PCM2616	17:45-18:00	A skin-like stretchable colorimetric temperature sensor	Yingzhi Chen
PCM2605	18:00-18:15	Positively-charged polymer designed as new platelet-rich plasma collector for quantitative preparation and free of centrifugation	Yi-Chang Chung
PCM2542	18:15-18:30	Development of Globular Polymeric Supports and its application in Membrane-Enhanced Peptide Synthesis (MEPS)	Hortensia Rodriguez

Session 2: Mechanical, Thermal, and Electrical Properties

Session Chair: Prof. Esteban Broitman, SKF Research & Technology Development, 3430 DT Nieuwegein, The Netherlands

Time: 13:30-18:30, Wednesday Afternoon, April 11

Location: 2F, Room 21 A/B

Paper ID	Time	Paper Title	Author
PCM2427	13:30-13:45	Sewer renovation using polymer-modified mortar and a semi-composite structure approach	Masaaki Nakano
PCM2348	13:45-14:00	Termite resistance and physico-mechanical properties of particleboard using waste tobacco stalk and wood particles	Menandro Acda
PCM2422	14:00-14:15	Development of a bio-renewable feedstock for manufacturing carbon composites by powder-based 3D printing technology	Saeed Dadvar

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PCM2346	14:15-14:30	Evaluation of residual strength after creep loading of a ramie staple fiber / PP green composite	Siti Sarah Rohaizad
PCM2403	14:30-14:45	Fabrication of super-strong carbon nanotube bundles with tensile strength over 80 Gpa	Yunxiang Bai
PCM2414	14:45-15:00	Synthesis of A Highly Stretchable and Self-healing Double Network Hydrogel	Lin Li
PCM2439	15:00-15:15	Aging behavior and properties evaluation of High-Density Polyethylene (HDPE) in heating-oxygen environment	Bo Zhao
PCM2505	15:15-15:30	Interactive deformation and diffusion of stainless steel / carbon steel near the interface during deformation bonding process	Shuo Li
PCM2316	15:30-15:45	Modification with polymeric microspheres and its influence on thermomechanical properties and morphology of thermoplastics	Aneta Tor-Świątek
PCM2452	15:45-16:00	Self-normalized photoacoustic technique for thermal diffusivity measurements of polymers	José Abraham Balderas López
	16:00-16:15	Coffee Break	
PCM2293	16:15-16:30	High-performance thermally activated delayed fluorescence polymers for light-emitting devices	Guohua Xie
PCM2320	16:30-16:45	Perovskite-polymer composite systems: a preliminary investigation	Russo Pietro
PCM2312	16:45-17:00	Rheological characterization of a polyethylene melt, filled with different concentrations of fumed silica at 453 K	Dimiter Hadjistamov
PCM2421	17:00-17:15	Dynamic Viscoelasticity of TiO ₂ /ureaParticles Filled Electrorheological Elastomers	Ning Ma
PCM2499	17:15-17:30	Preparation and mechanical properties of continuous basalt fiber reinforced poly (arylene ether nitrile ketone) composites	Honghua Wang
PCM2612	17:30-17:45	Thermoelectric properties of regioregular poly (3-hexylthiophene) correlated with doping level	Ichiro Imae
PCM2519	17:45-18:00	Deformation behaviour of Cu-Al clad composites produced by rotary swaging	Lenka Kuncicka
PCM2608	18:00-18:15	Synthesis and physical property investigation of FeSe _{1-x} Te _x and FeSe _{1-x} S _x epitaxial thin films	Atsutaka Maeda

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PCM2576	18:15-18:30	Effects of different overlap lengths and composite adherend thicknesses on the performance of adhesively-bonded joints under tensile and bending loadings	Ferhat Kadioglu
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Session 3: Processing and Characterization

Session Chair: Prof. Ravaine Serge, University of Bordeaux, Centre de Recherche Paul Pascal/CNRS, France

Time: 13:30-18:15, Wednesday Afternoon, April 11

Location: 2F, Room 22

Paper ID	Time	Paper Title	Author
PCM2315	13:30-13:45	Wettability and Joining of UHTC Composite	Noritaka Saito
PCM2536	13:45-14:00	Optimization of reaction parameters in the conversion of PET to produce BHET	Jose Daniel Del Rio Cuevas
PCM2425	14:00-14:15	Effect of different nucleating agent on crystallization kinetics and morphology of polypropylene	Yanjie An
PCM2342	14:15-14:30	High temperature polymerization monitoring of an epoxy resin using ultrasound	Marechal Pierre
PCM2548	14:30-14:45	Influence of substrate on static and dynamic properties of thin polymeric films	Werner Steffen
PCM2531	14:45-15:00	Investigation of crystalline structure of plasticized poly (lactic acid)/ nanofibers composites	Touaiti Farid
PCM2360	15:00-15:15	Regime II-III transition in isotactic polybutene-1 tetragonal crystal growth: growth kinetics and morphology	Motoi Yamashita
PCM2374	15:15-15:30	Fighting with scientific dogmas in polymer supported syntheses	Peter Tetenyi
PCM2476	15:30-15:45	Natural cellulose nanocrystal (nanowhisker) powder	Toshihiko Arita
PCM2495	15:45-16:00	Dynamics and structure of PVDF – solvent gels filled with silica	Jessica Link
	16:00-16:15	Coffee Break	
PCM2460	16:15-16:30	Synthesis of main chain-type polyesters by atom transfer radical polyadditions in the Fe-based system	Yu Chi Lu

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PCM2369	16:30-16:45	Enhancement and confinement influences on molecular motions in copolymers, polymer blends and polymer composites	Rui Zhang
PCM2566	16:45-17:00	The potential of PBA's for inorganic polymers	Murat Tas
PCM2466	17:00-17:15	Novel patchy particles and their directional bonding	Ravaine Serge
PCM2478	17:15-17:30	Gap features of layered iron-selenium-tellurium compound below and above the superconducting transition temperature by break-junction spectroscopy combined with STS	Toshikazu Ekino
PCM2408	17:30-17:45	Preparation of TAC Aerogel and Au-doped TAC Aerogel	Yu Fang
PCM2467	17:45-18:00	Synthesized of hard carbon films by atmospheric pressure filamentary dielectric barrier discharge	Tetsuya Suzuki
PCM2569	18:00-18:15	Monitoring and preparation of neoagaro- and agaro-oligosaccharide products by high performance anion exchange chromatography systems	Yuan-Tih Ko

Session 4: Theoretical Calculations and Modelings

Session Chair: Assoc. Prof. Malgorzata Wierzbowska, Institute of High Pressure Physics (UNIPRESS), Polish Academy of Sciences, Warsaw, Poland

Time: 08:30-12:15, Thursday Morning, April 12

Location: 2F, Room 21 A/B

Paper ID	Time	Paper Title	Author
PCM2457	08:30-08:45	Energy-resolved electrochemical impedance spectroscopy – novel method for DOS mapping in organic semiconductors	Vojtech Nadazdy
PCM2303	08:45-09:00	Intensity of singular stress field distributions along the interface end for 3D butt joint to evaluate the debonding strength	Kenji Tsuboi
PCM2514	09:00-09:15	Hydrogen bonds and dipole groups used for photovoltaics, topological insulators and memory devices	Malgorzata Wierzbowska
PCM2433	09:15-09:30	Effects of the dielectric contrast and hydrogen bond between polymer and ionic liquid on the thermodynamic phase behavior	Issei Nakamura

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PCM2446	09:30-09:45	Electrokinetic phenomena in wavy channels	Pierre M. Adler
PCM2443	09:45-10:00	The effects of the height of the bonded component on the stress intensity factors of an edge-cracked bonded strip	Xin Lan
	10:00-10:15	Coffee Break	
PCM2523	10:15-10:30	Energy use in repairs by cover concrete replacement or silane treatment for extending service life of chloride-exposed concrete structures	Aruz Petcherdchoo
PCM2358	10:30-10:45	Fabrication of stretchable, transparent electronic devices using cellulose composites	Jang Ung Park
PCM2543	10:45-11:00	Molecular design of hybrid organic-inorganic nanocomposite for clean environment and energy	Yun Wang
PCM2600	11:00-11:15	Effects of branch and FRP wraps on structural stability of tall trees subjected to high wind loads	Junsuk Kang
PCM2447	11:15-11:30	Electrokinetic phenomena in complex materials	Pierre M. Adler
PCM2535	11:30-11:45	Structures, interactions and related properties of polymer and polymer nanocomposites	Sarathi Kundu
PCM2300	11:45-12:00	Intensity of singular stress fields of an embedded fiber under pull-out force	Dong Chen
PCM2413	12:00-12:15	Polymer-mediated interactions and their role in the selected static and dynamical properties of polymer nano-composites	Alexander Chervanyov

Session 5: Carbon-Polymer Composites

Session Chair: Prof. Emmanuel Beyou, Ingénierie des Matériaux Polymères, CNRS UMR 5223, Université de Lyon, France

Time: 08:30-12:15, Thursday Morning, April 12

Location: 2F, Room 22

Paper ID	Time	Paper Title	Author
PCM2333	08:30-08:45	Development of low-cost carbon fibre from lignin-based precursor	Azam Oroumei
PCM2560	08:45-09:00	Effect of elongation on electric resistance in carbon-polymer systems	Toyoaki Kimura

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PCM2278	09:00-09:15	Main interests in the functionalization of graphite oxide sheets with polymer chains	Emmanuel Beyou
PCM2464	09:15-09:30	Reactive 3D inkjet printing of reduced graphene oxide/dielectric elastomer nanocomposites	Asish Malas
PCM2301	09:30-09:45	Carbon nanofibers derived from electrospun Polyacrylonitrile/polyvinylpyrrolidone composite nanofiber	Chien Lin Huang
PCM2343	09:45-10:00	Kinetics of curing process in carbon based epoxy nano-composite	Juana Abenojar
	10:00-10:15	Coffee Break	
PCM2458	10:15-10:30	Photochemical/thermal initiating system for dual-curing of carbon composites	Xavier Allonas
PCM2325	10:30-10:45	Preparation and Mechanical Properties of Graphene Nanoplatelets/Glass Fiber Composite Laminates via Vacuum assisted Resin Transfer Molding (VaRTM)	Ming Yuan Shen
PCM2441	10:45-11:00	A comparative study on properties of polymer/carbon Micro- and Nano-composites	Basheer A. Alshammari
PCM2319	11:00-11:15	Three-dimensional graphene nanoribbon-based composite materials and their applications	Tao Yi
PCM2510	11:15-11:30	Gate-dependent photocurrent of (6,5) single-walled carbon nanotube-based field effect transistor	Ki Hong Park
PCM2618	11:30-11:45	Axial crushing behaviour of thin-walled braided composite tube: experimental comparison on basalt and glass fibre reinforced composite	Mohd Yazid Yahya
PCM2426	11:45-12:00	Behavioral analysis of a carbon fiber reinforced polymer retrofitted RC column using ansys	Rüstem Gül
PCM2585	12:00-12:15	Investigation of dynamic properties of a polymer matrix composite with different angles of fiber orientations	Ferhat Kadioglu

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Session 6: Novel Applications

Session Chair: Assoc. Prof. Stephen M. Lyth, Platform for Inter/Transdisciplinary Energy Research (Q-PIT), International Institute for Carbon-Neutral Energy Research (I2CNER), Kyushu University, Japan

Time: 13:30-18:15, Thursday Afternoon, April 12

Location: 2F, Room 21 A/B

Paper ID	Time	Paper Title	Author
PCM2546	13:30-13:45	Nanocellulose proton conducting membranes for fuel cells	Stephen M. Lyth
PCM2393	13:45-14:00	Beyond polyolefin separator membranes for Li-Ion/Li-S batteries	Sang Young Lee
PCM2287	14:00-14:15	Reduction of biofouling effect in composite fibrous depth filters	Leon Gradon
PCM2415	14:15-14:30	Arc plasma generated silver nanoparticles for membrane antifouling	Sang Hoon Kim
PCM2527	14:30-14:45	Biofouling mitigation of proton exchange membrane through surface modification with AgNPs and PDA.	Sung Gwan Park
PCM2580	14:45-15:00	Using a block copolymer additive as the strategy to improve the anti-fouling performance of polymeric filtration membrane	Xiaoji Zhou
PCM2365	15:00-15:15	Electrochemical studies of the composite polymer-containing coating on the 1579 aluminium alloy with welded joint	Andrei Gnedenkov
PCM2396	15:15-15:30	Wide-bandgap polymer donor based non-fullerene organic solar cells with efficiency over 10%	In Hwan Jung
PCM2454	15:30-15:45	Highly efficient for fully printable organic-inorganic hybrid bulk heterojunction thin-film solar cells	Takehito Kato
PCM2511	15:45-16:00	Diffraction gratings fabricated by tip-based nanolithography	Jeong Sik Jo
	16:00-16:15	Coffee Break	
PCM2520	16:15-16:30	Evidence for reactions of carbon dioxide over silicon surfaces	Nilson Kuniooshi
PCM2362	16:30-16:45	A novel chemical-consolidation sand control method: Foam amino resin system	Yingrui Bai

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PCM2594	16:45-17:00	Synthesis and properties of high efficient room temperature phosphorescence materials PPV derivative	Ying HE
PCM2522	17:00-17:15	Simultaneous optical detection and removal of heavy metal ions through surface immobilization of 4-(2-pyridylazo)-resorcinol onto polyacrylonitrile fiber with microwave irradiation method	Sheng Deng
PCM2583	17:15-17:30	Fluid flow characteristics during polymer flooding	Shanglin Yao
PCM2601	17:30-17:45	Development of the visualizing film for dynamic strain using piezoelectric polymer film	Shigeru Kurosaki
PCM2550	17:45-18:00	Boosting phonon-induced luminescence in Mn ion-activated fluoride phosphors for phosphor-converted white LEDs	Shijie Xu
PCM2623	18:00-18:15	Development of 3D woven cellular structures for adaptive composites based on thermoplastic hybrid yarns	Corenlia Sennwald

Session 7: Nanomaterials and Nanocomposites

Session Chair: Assoc. Prof. Mikio Ito, Center for Atomic and Molecular Technologies, Graduate School of Engineering, Osaka University, Japan

Time: 13:30-18:15, Thursday Afternoon, April 12

Location: 2F, Room 22

Paper ID	Time	Paper Title	Author
PCM2591	13:30-13:45	Toughening of TiAl intermetallic compound by β phase precipitation	Makoto Hasegawa
PCM2567	13:45-14:00	Depolymerization of Cellulose with Superheated Steam Improving the Properties of Cellulose Nanofiber	Hidayah Ariffin
PCM2509	14:00-14:15	Enhanced Photocatalytic Activity of Cu_2O Micro-scaled Patterns	Jin Hyun Choi
PCM2445	14:15-14:30	Preparation of composite thin film with InSb and oxide semiconductor	Seishi Abe
PCM2513	14:30-14:45	Thermoelectric performance of heterogeneous β - FeSi_2/Si composites synthesized by eutectoid decomposition	Mikio Ito
PCM2375	14:45-15:00	Dielectric properties of ferromagnetic alloy - ferroelectric ceramics $(\text{FeCoZr})_x(\text{PZT})_{(100-x)}$ nanocomposites produced by ion sputtering	Oleksandr Boiko

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PCM2463	15:00-15:15	Laboratory technology of copper surface protection by means of few-layer graphene nanostructures	Malika A. Tulegenov
PCM2329	15:15-15:30	The effect of Cr (VI) ions on the TiO ₂ -catalyzed photodegradation of an organic dye using TiO ₂ /Chitosan composite beads	Nopparat Plucktaveesak
PCM2512	15:30-15:45	Electrochemical one-step synthesis of hybrid nanocomposites Au/polymer	Lidia Kolzunova
PCM2515	15:45-16:00	Luminescent lanthanide doped Bi ₂ SiO ₅ /g-SiO ₂ core/shell nanocomposite for biological and high temperature sensing	Michele Back
	16:00-16:15	Coffee Break	
PCM2350	16:15-16:30	Investigation of oxidation behaviors of nuclear graphite ETU-10 considering the complexity of high temperature gas-cooled reactor	Dianbin Li
PCM2483	16:30-16:45	Fabrication of Hydrophobic Al ₂ O ₃ Surface Driven by Alkylamine Graftings	Min Jeong Na
PCM2376	16:45-17:00	Rheological properties of a Low Molecular Weight Polymer-Particle Dispersed (LPPD) gel system for water control in horizontal wells	Xiaosen Shang
PCM2398	17:00-17:15	Preparation of polymer/cu composite with ordered array structure	Bo Yang
PCM2355	17:15-17:30	Physical properties and morphology of electrospun composite fiber mats of polyhydroxyalkanoate containing nanoclay and tricalcium phosphate additives	Nuttapol Tanadchangsang
PCM2622	17:30-17:45	Preparation and performance evaluation of one kind of temperature resistance polymer microspheres	Hongbin Yang
PCM2619	17:45-18:00	Properties of nanocomposite thin films including ferromagnetic nanoparticles	Masaki Mizuguchi
PCM2595	18:00-18:15	Preparation of multifunctional Fe ₃ O ₄ /ZnS magnetic fluorescent composites	Xin Zhang

Part V Conference Venue

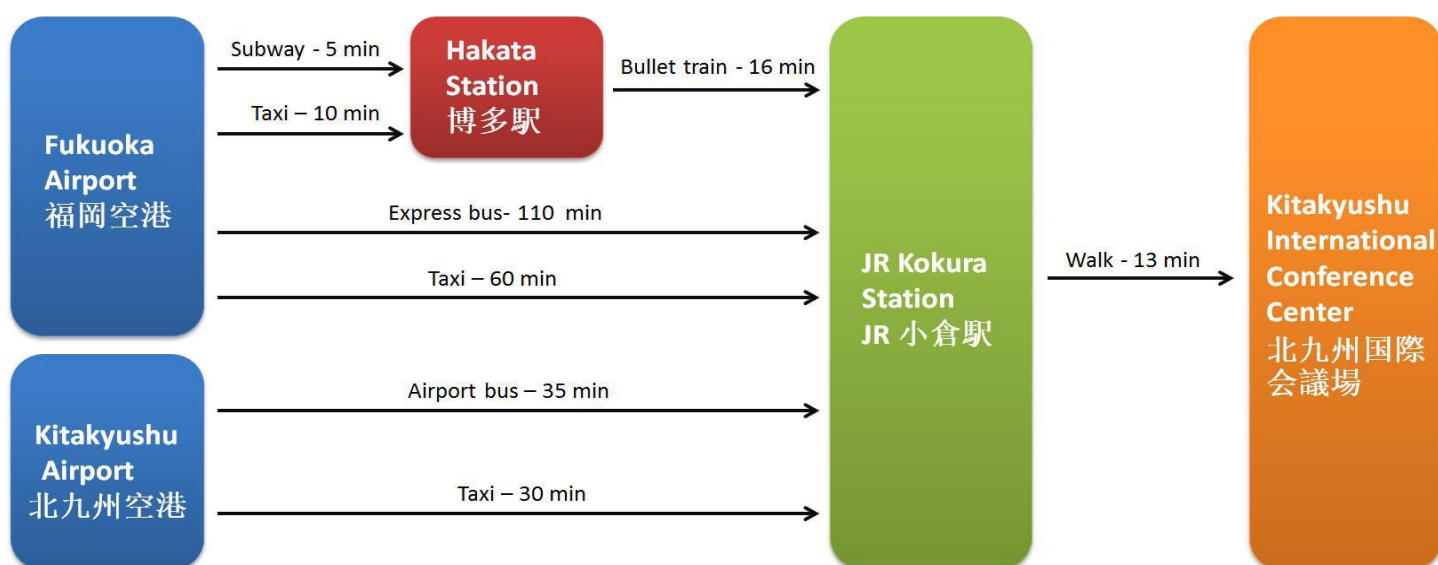
Kitakyushu International Conference Center

Address: 3-9-30 Asano, Kokurakita-ku, Kitakyushu Fukuoka, 802-0001, Japan

Website: <http://convention-a.jp/kokusai-kaigi/>

Access to Venue

➤ Access from Airport



1. From Fukuoka Airport to JR Kokura Station

(A) By Bus: about 110 minutes

- Take [Nishitetsu Limited Express Bus](#) to Kokura Bus station (Kokura ekimae bus stop)

(B) By Train: about 22-70 minutes

- Take [Fukuoka City Subway](#) to JR Hakata station (about 6 minutes) and get off; and then transfer to:
 - Option 1- JR kagoshima trunk line to JR Kokura Station (about 70min);
 - Option 2- JR Limited Express line to JR Kokura Station (about 40min);
 - Option 3- [Shinkansen](#) to JR Kokura Station (about 16min)

2. From Kitakyushu Airport to JR Kokura Station

By Bus: about 33-49 minutes

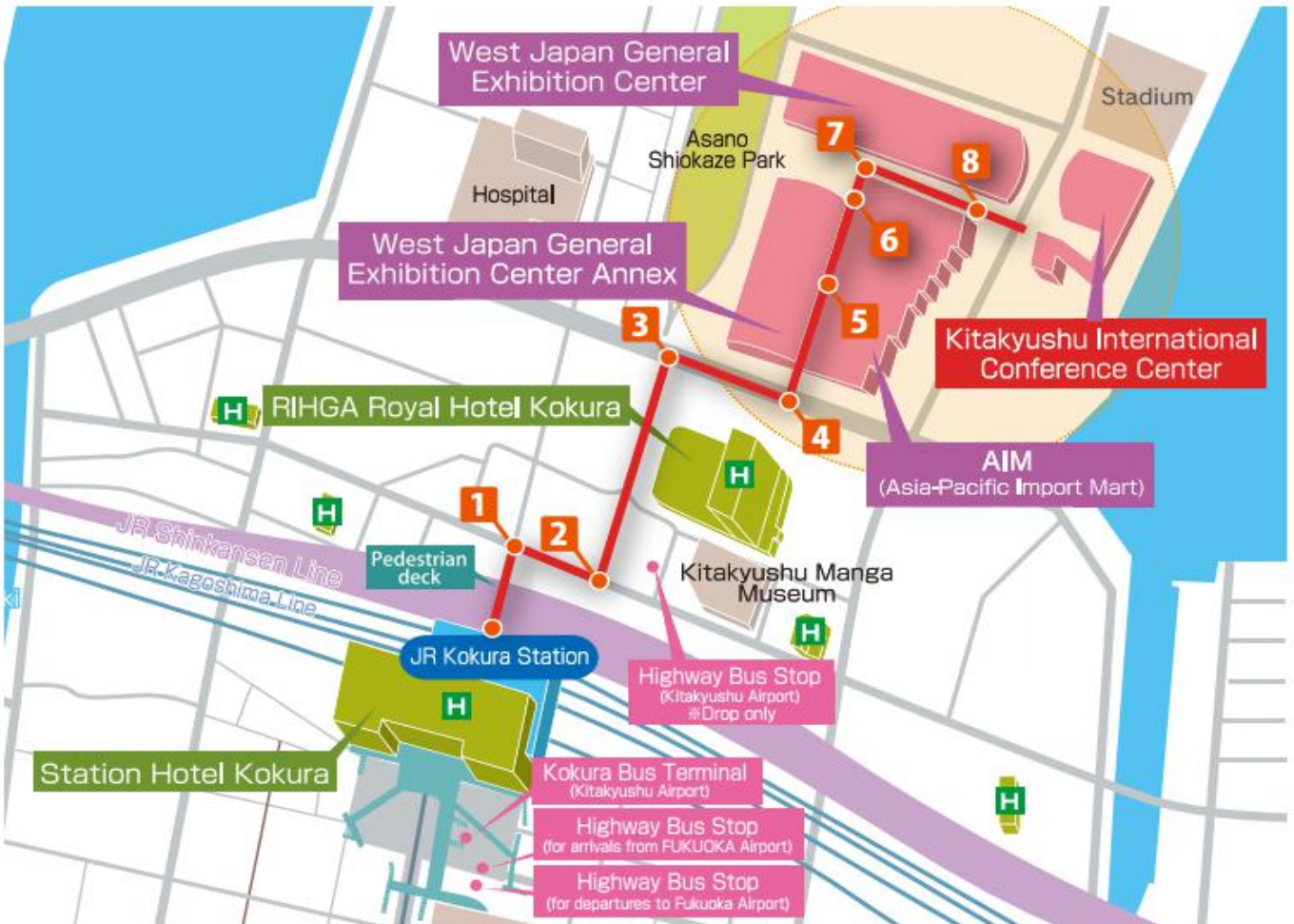
- Take Kokura Non-stop Line to JR Kokura Station (about 33min);
- or
- Take [Kokura Nakatani Line](#) to JR Kokura Station (about 49min)

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➤ Access from JR Kokura Station to Conference Venue

Kitakyushu International Conference Center is about 500 m from Kokura Station, a 5-minute walk.

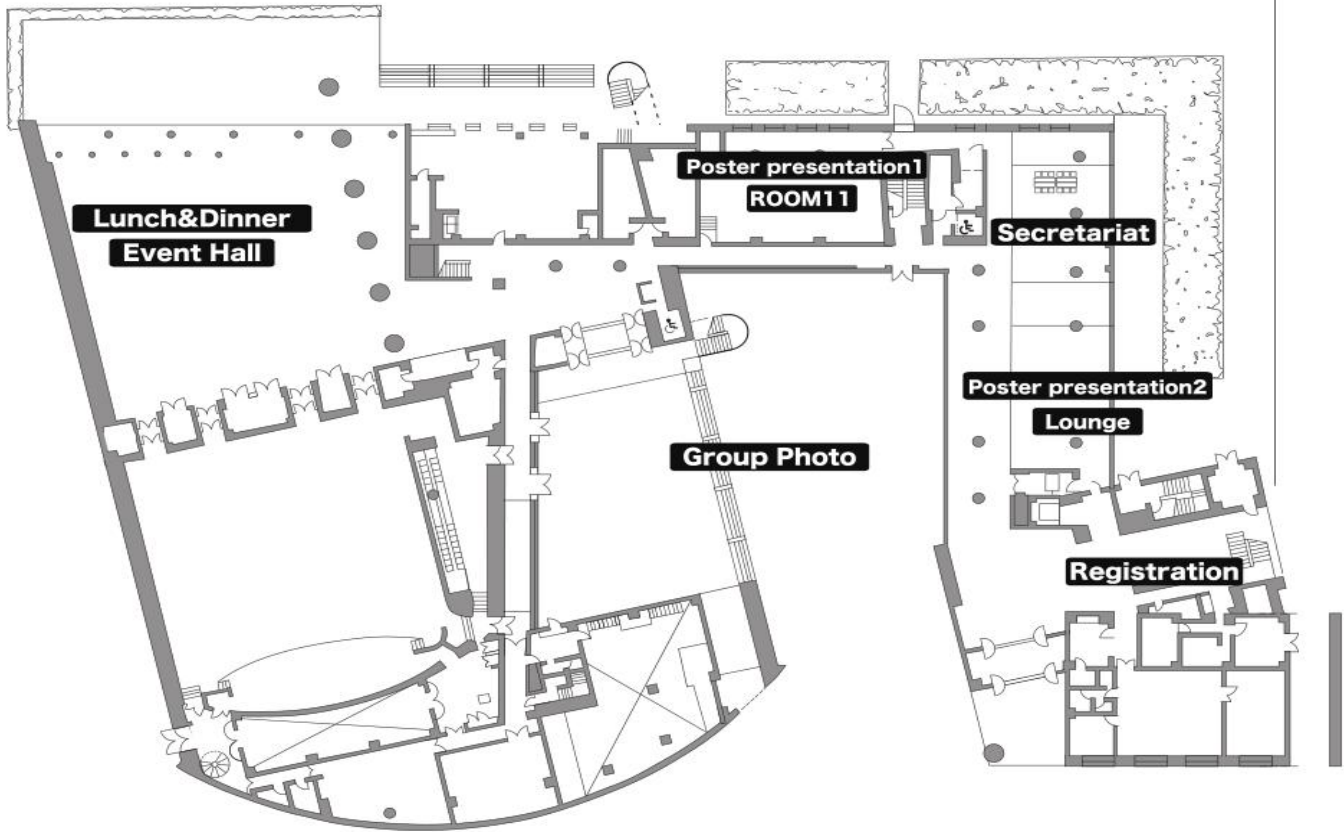


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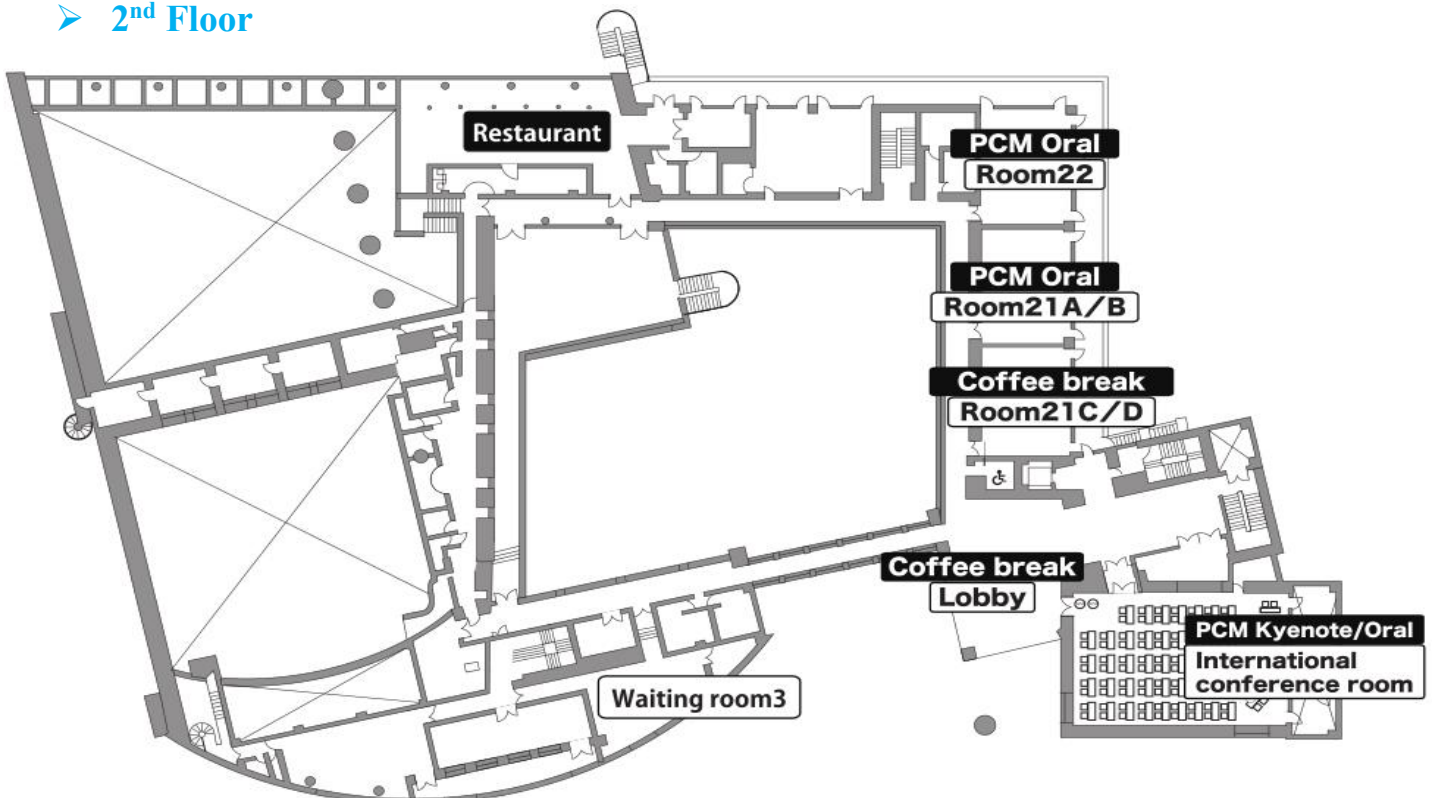
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Map of the Conference Venue

➤ 1st Floor



➤ 2nd Floor



Part VI Group Tour

Schedule

08:30 Depart from the RIHGA Royal Hotel Kokura

09:00-11:30 Kokura Castle, Kokura Garden & Matsumoto Seicho Memorial Museum

12:06 Depart from the Kokura Station (Monorail)

12:06 -13:16 Lunch (Monorail)

13:30 Back to RIHGA Royal Hotel Kokura

Kokura Castle

Kokura Castle (小倉城) was built by Hosokawa Tadaoki in 1602. It was the property of the Ogasawara clan (from Harima) between 1632 and 1860. The castle was burnt down in 1865 in the war between the Kokura and Choshu clans. The Castle was rebuilt in 1959 and was fully restored in 1990. The castle's traditional architecture provides an interesting visual contrast to the neighboring modern shopping and entertainment center.



Kokura Garden

Kokura Castle Garden is a cultural institution with a tea room and an exhibition building to reproduce the Typical Daimyo gardens in Edo period. Decorum is one of the traditional Japanese cultures that contain "heart of compassion" and "heart of hospitality". The Kokura Castle Garden is the only unique place in Japan to introduce the history of decorum.



Matsumoto Seicho Memorial Museum

Matsumoto Seicho was born in Kitakyushyu, Japan and is a master of contemporary Japanese reasoning novels with more than 700 well-known works. His creation broke the fixed pattern of Whodunit and Whodunnit in the early days of Japanese detective fiction, and created social-school novels. The museum is built around Matsumoto Seicho's former residence, presenting his creative activities with displays and pictures, as well as showcasing the original appearance of his studio and library.

