

ISGMA 2015

International Symposium on
Green Manufacturing and Applications

Program and Proceedings



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ISGMA 2015

**International Symposium on
Green Manufacturing and Applications**

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The Korean Society for Precision Engineering (KSPE)
Korea Institute of Machinery and Materials (KIMM)
Korea Institute of Industrial Technology (KITECH)
Seoul National University (SNU) Institute of Advanced Machinery and Design/
Seoul National University (SNU) Nano Printing Lab.
Changwon National University

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WELCOME ADDRESS

Distinguished Symposium Attendees,

It is my great privilege to welcome all of you to the 2015 International Symposium on Green Manufacturing and Applications (ISGMA 2015). The Symposium becomes one of the globally well-known events in the field of Green Manufacturing and it is held this year in beautiful harbor city, Qingdao, China.

For ISGMA 2015, we have accepted 395 technical papers and posters, and expect to host nearly 450 participants representing 15 countries and nationalities! This year, 19 distinguished plenary, keynote, and invited speakers from internationally reputed institutes will aim to present the state-of-the-art research, development, and innovative advances and its related issues to our ever changing environment. We hope this will foster relevant discussions in the various fields of green manufacturing and applications as related to energy conservation, system efficiency, pollution and waste reduction, eco-friendly materials, renewable energy systems, and environment management in factories, robotics, and processes.

We are facing the development of Green manufacturing technologies because many countries have been adopting the carbon emission trading systems including Korea.

Undoubtedly, this symposium will greatly contribute to the industrial field in near future.

Approximately 395 technical papers and posters will be presented in four parallel technical sessions and two poster sessions, respectively. We look forward to your interest and attendance!

Once again, we would like to express our sincere appreciation to all our sponsors and our Steering, advisory, technical, Publication and organizing committees. All of the initial organization and modifications would not have been possible without each members participation, dedication, and effort in preparing for the incredible increase in participants this year!

We wish each of you an interesting, informative, and exciting experience at ISGMA 2015 as well as an enjoyable and relaxing experience in Qingdao, China.

Thank you,



A handwritten signature in black ink, corresponding to Prof. Sun-Kyu Lee.

A handwritten signature in black ink, corresponding to Prof. Zhongde Shan.

Prof. Sun-Kyu Lee and Prof. Zhongde Shan

Chairs of ISGMA 2015

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Plenary Speaker



Jun Ni

University of Michigan,
Ann Arbor (USA)

'Future Global Sustainable Manufacturing'

Dr. Jun Ni is the Shien-Ming (Sam) Wu Collegiate Professor of Manufacturing Science and Professor of Mechanical Engineering at the University of Michigan, USA. He served as the founding Dean of the University of Michigan – Shanghai Jiao Tong University Joint Institute located in Shanghai, China since 2006. He is also the director of the Wu Manufacturing Research Center and the co-director of a National Science Foundation sponsored Industry/University Cooperative Research Center for Intelligent Maintenance Systems at the University of Michigan. Professor Ni has published over 450 technical papers, and supervised 84 PhD graduates and 58 MS graduates.

Selected honors and awards that Professor Ni received are 2015 Stephen Attwood Award from the University of Michigan, 2014 Andrew Heiskell Award for Innovation in International Education by Institute of International Education, 2014 Alexander Schwarzkopf Award for Technology Innovation by NSF-IUCRC Association, 2013 International Science and Technology Cooperation Award from the People's Republic of China, 2013 Gold Medal from Society of Manufacturing Engineers (the first Chinese to receive this award), 2013 S. M. Wu Research Implementation Award from North American Manufacturing Research Institute, the 2010 Magnolia Gold Medal from Shanghai Government, 2009 Ennor Manufacturing Technology Award from American Society of Mechanical Engineering, and 1994 Presidential Faculty Fellows Award. He is an elected Fellow of International Society of Engineering Asset Management, International Society for Nanomanufacturing, American Society of Mechanical Engineers, and Society of Manufacturing Engineers.

Professor Ni has been invited to serve as a guest/advisory professor at many institutions, including Shanghai Jiao Tong University, Tsinghua University, Xi'an Jiao Tong University, Huazhong University of Science and Technology, Dalian University of Technology, and 10 other institutions. He served in the International Expert Advisory Board of the Ministry of Science and Technology of PRC to consult for the strategic planning in advanced manufacturing. He served as a consultant for Korea Institution of Materials and Machinery, and South African's Department of Science and Technology's Advanced Production Roadmap. He served as a member of the External Advisory Board at Taiwan's Industrial Technology Research Institute and as a member of the International Advisory Board of the State of Michigan. He served as a Vice Chairman of Global Agenda Council on Advanced Manufacturing at the World Economic Forum since 2010 and is very active in various national and international studies of policy recommendations for advancing manufacturing competitiveness globally.

Keynote Speaker



Hon-Zong Choi

KITECH (Korea)

Title : Paperless Online
Collaboration System for
SMEs



Ming Wang Fu

*The Hong Kong Polytechnic University
(Hong Kong)*

Title : Micro-Scaled Product Development
via Micro-Scaled Plastic Deformation



Sungho Jeong

GIST (Korea)

Title : Laser-Induced Breakdown
Spectroscopy for Fast and Quantitative
Monitoring of Product Chemistry during
Manufacturing



Kai Cheng

Brunel University (UK)

Title : Multi-scale Sustainable
Manufacturing: an Engineering-oriented
Approach and its Implementation
Perspectives



Gül E. Kremer

The Pennsylvania State University (USA)

Title : Economic and Environmental
Sustainability across Product Supply
Chains



Choon-Man Lee

Changwon National University (Korea)

Title : A New Conceptual Three-
Dimensional Laser Assisted Milling
System



Shijie Liu

SUNY (USA)

Title : Biodegradable and Recyclable
Bioplastics PHA and Its Production
from Woody Biomass



Mitsutaka Matsumoto

AIST (Japan)

Title : Product Remanufacturing as an
Enabler for Sustainable Manufacturing



Seong Jin Park

POSTECH (Korea)

Title : Current Research Activities and
Future of Powder Injection Molding



Simon S. Park

University of Calgary (Canada)

Title : Polymeric Carbon
Nanocomposite Based Sensor
Networks

Invited Speaker



Bo Hyun Kim

Soongsil University (Korea)
Title : Micro Structuring of Glass by Non-traditional Machining Processes



Hak-Sung Kim

Hanyang University (Korea)
Title : Nanotech Based Flash Light Sintering Technology and Its Application for Printed Electronics



Seung Hwan Ko

SNU (Korea)
Title : Nanomaterial Based Flexible/Stretchable Electronics Fabrication Process



Suk Won Cha

SNU (Korea)
Title : Physical Vapor Deposition and Atomic Layer Deposition Technique for Solid Oxide Fuel Cells



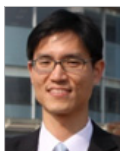
Chih-Hsing Chu

National Tsing Hua University (Taiwan)
Title : Integrating Product and Supply Chain Design for Sustainable Product Development



Chong Wen Tong

University of Malaya (Malaysia)
Title : The Green Design and Application of a Hybrid Wind-Solar Energy Powered Outdoor Lighting and Charging System



Young-Bin Park

UNIST (Korea)
Title : Carbon Nanomaterials and Nanocomposites for Smart Applications



Denni Kurniawan

University Technology Malaysia (Malaysia)
Title : Severe Plastic Deformation for Grain Refinement of Zn Alloy

PROGRAM *at a Glance*

23 Tuesday

Committee Meeting

Registration Open

24 Wednesday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
9:00-10:30	Precision Machinery and Related Materials I (Organized)	Bio - Medical Technology / QoLT	Carbon Composites & Convergence Technology (Organized)	Energy Harvest / Energy Saving / Renewable Energy
10:30-10:40	<i>Coffee Break</i>			
10:40-11:10	Keynote Speech 1	Keynote Speech 2	Keynote Speech 3	Keynote Speech 4
11:10-11:40	Opening Ceremony : China Hall 2			
11:40-12:20	Plenary Speech : China Hall 2			
12:20-13:30	<i>Lunch</i>			
13:30-13:50	Invited Speech 1	Invited Speech 2	Invited Speech 3	Invited Speech 4
13:50-15:20	Precision Machinery and Related Materials II (Organized)	Design I	Smart Materials and Structures (Organized)	Fuel Cell / Electric Generator
15:20-15:30	<i>Coffee Break</i>			
15:30-16:00	Keynote Speech 5		Keynote Speech 6	
16:10-17:40	Welding / Heat Treatment	Design II	Green Composite (Organized)	Green Lighting (Organized)

25 Thursday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
9:00-10:20	Poster Presentation 1 : China Hall 2			
10:20-10:50	Coffee Break			
10:50-12:10	Poster Presentation 2 : China Hall 2			
12:10-13:30	Lunch			
13:30-15:15	Forming I (Organized) / Joining	Design III	Composites	Strategy
15:15-15:30	Coffee Break			
15:30-16:00	Keynote Speech 7	Keynote Speech 8	Keynote Speech 9	Keynote Speech 10
16:10-17:40	Forming II (Organized) /Joining	Optimization	Micro - Nano Technology / Coating	PLM / SCM / LCA
17:40-18:00	Invited Speech 5	Invited Speech 6	Invited Speech 7	Invited Speech 8
18:00-20:00	Official Banquet at China Hall 2			

26 Friday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
9:00-10:15	Non-traditional Processes	Robotic Application of 3D Printing (Organized)	Reliability	
10:15-10:30	<i>Coffee Break</i>			
10:30-12:15	Alloy / Casting / Polishing	Vehicle	Life Prediction	
12:15-17:00	Industrial/Technical Tour at MESNAC, Jiao Zhou, Qingdao			

27 Saturday

Local Tour - Qingdao City Tour

ORAL session

24 Wednesday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Precision Machinery and Related Materials I *	Bio · Medical Technology / QoLT	Carbon Composites & Convergence Technology *	Energy Harvest / Energy Saving / Renewable Energy
	<i>Chairs</i> Jehyun Lee Dong-Yoon Lee	<i>Chairs</i> Kyung-Tae Lee Henry Hu	<i>Chairs</i> Young-Bin Park Min Seok Moon	<i>Chairs</i> Jay I. Jeong Won-Shik Chu
9:00-10:30	OP001 / 103 A Study on the Laser-assisted Machining of AISI 1045 Steel with Cylindrical Shape (Wan-Sik Woo)	OP007 / 354 Development of Force-based Steering Interface for Improvement in Intuition and Learnability (Sungseob Jang)	OP013 / 129 Design of Roof Panel to Satisfy Required Bending Stiffness using CFRP Laminates (Jeong-Min Lee)	OP019 / 315 Triboelectric Nanogenerators with Soft Substrates based on Cam Structure for Harvesting Rotational Energy (Younghoon Lee)
	OP002 / 104 Evaluation of Machinability in Laser Assisted Milling of Hard-to-machine Materials (Dong-Hyeon Kim)	OP008 / 374 Development of Hands-free Wheelchair Device based on Head Movement and Bio-signal for Quadriplegic Patients (Keunhyun Kim)	OP014 / 290 Numerical Modeling of Hybrid Composite (CFRP/Ti) Cutting under Different Cutting-sequence Strategies (Jinyang Xu)	OP020 / 112 A Correlation Model of Product Manufacturing Energy Consumption based on Design Features (Lirong Zhou)
	OP003 / 188 A Study on the Development of a Variable Preload Device using Linear Actuator of Ballscrew Type (Jong-Wook Ahn)	OP009 / 119 Air-bridge Enhanced Capacitor for Mediator-free Glucose Sensor by Complex Permittivity Characterization (Rajendra Dhakal)	OP015 / 262 A New Design for Environment Method: Key Component-based Modular Product Design Approach (Junfeng Ma)	OP121 / 421 Energy Saving in the Painting Process of Ship Blocks and Plant Structure by Zone Heating Method (Dong Su Jung)
	OP004 / 189 A Study on the Stability Evaluation through Static and Dynamic Analysis of Machine Tool for Heavy-cutting (Nam-Seok Oh)	OP010 / 027 Brain Tumor Detection and Diagnosis using Biomedical Sensors and Secure Hybrid Cloud (Sujatha Kesavan)	OP016 / 266 Effects of Pilot Injection Timing and EGR on Combustion, Performance, and Exhaust Emissions in a Common Rail Diesel Engine Fueled with Canola Oil Biodiesel-Diesel Blend (Jun Cong Ge)	OP022 / 212 Feasibility Study on Hybrid Multistage Direct-Drive Generator with AFPM and RFPM for Large-scale Wind Turbine (Yang Gyun Kim)
	OP005 / 191 A Study on Thermal Analysis of Specimens with Spherical Surface for Laser-assisted Machining (In-Woo Kim)	OP011 / 184 Accurate Three-dimensional Blood Vessel Modeling through Registration of Medical Images (Jinwon Son)	OP017 / 159 Inter-Ply Shear Stress Minimization in Fiber Reinforced Thermoplastic Composites during Stamp Forming (Abera Tullu)	OP023 / 213 Performance Evaluation of Cooling System for Direct-drive Generator with AFPM in Large-Scale Wind Turbine (Tae Young Kim)
	OP006 / 297 Comparison of Surface Properties between TiN and TiAlN Coating prepared by Arc Ion Plating (Yunkon Joo)	OP012 / 307 Preparation of Lidocaine Loaded Porous PLGA Microparticles based on Microfluidic Device (Chul Min Kim)	OP018 / 270 Surrogate-based Design Optimization of Composite Stiffener Panel for Maximizing Buckling Load (Mohanraj Murugesan)	OP024 / 173 Development of Hybrid Device for Photovoltaic Power Generation and Heating (Dong Il Lee)
10:30-10:40	<i>Coffee Break</i>			
10:40-11:10	Keynote Speech 1 Ming Wang Fu	Keynote Speech 2 Hon-Zong Choi	Keynote Speech 3 Simon Park	Keynote Speech 4 Sungho Jeong
	Micro-scaled Product Development via Micro-Scaled Plastic Deformation <i>Chair: Daehie Hong</i>	Paperless Online Collaboration System for SMEs <i>Chair: Kyung-Hee Park</i>	Polymeric Carbon Nanocomposite Based Sensor Networks <i>Chair: Keun Park</i>	Laser-Induced Breakdown Spectroscopy for Fast and Quantitative Monitoring of Product Chemistry during Manufacturing <i>Chair: Seung-Han Yang</i>
11:10-11:40	Opening Ceremony (China Hall 2)			
11:40-12:20	Plenary Speech (China Hall 2) - Jun Ni (Future Global Sustainable Manufacturing) : Chaired by Dae-Eun Kim			
12:20-13:30	Lunch (Café YUM (located in 1st floor at Shangri-La Hotel))			

* Organized Session

24 Wednesday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Precision Machinery and Related Materials II *	Design I	Smart Materials and Structures *	Fuel cell / Electric Generator
	<i>Chairs</i> Jehyun Lee Dong-Yoon Lee	<i>Chairs</i> Young Sam Ham Dong-Gyu Ahn	<i>Chairs</i> Guo Qiang Gyu Man Kim	<i>Chairs</i> Young-Beom Kim Fangyi Li
	Invited Speech 1	Invited Speech 2	Invited Speech 3	Invited Speech 4
	Denni Kurniawan	Suk Won Cha	Young-Bin Park	Chih-Hsing Chu
	Severe Plastic Deformation for Grain Refinement of Zn Alloy	Physical Vapor Deposition and Atomic Layer Deposition Technique for Solid Oxide Fuel Cells	Carbon Nanomaterials and Nanocomposites for Smart Applications	Integrating Product and Supply Chain Design for Sustainable Product Development
	OP025 / 379 Thermal Gradient Change with Distance in Ni-base Superalloy CM247LC Rod Directionally Solidified by Bridgman Method (Jeongseok Lee)	OP031 / 093 Parameter Study for the Frictional Force and Contact Pressure on the Taper Roller Bearing (Ji Woo Nam)	OP037 / 458 Possibilities of Nanocellulose Films for Renewable Smart Materials (Lindong Zhai)	OP043 / 005 Substrate-dependent Growth of Nanothin Film Solid Oxide Fuel Cells towards Cost-effective Nanostructuring (Sanghoon Ji)
13:30-15:20	OP026 / 387 Peritectic Reaction during Directional Solidification in the Ni-based Superalloy CMSX-10 (Jehyun Lee)	OP032 / 250 Design and Analysis of Ultrasonic Horn for Polymer Sheet Forming (Keun Park)	OP038 / 330 A Variable Stiffness Origami Tube Towards Medical Applications (Jongwoo Kim)	OP044 / 249 Effect of O ₂ Reactive Gas on the Performance of Radio-Frequency Sputtered Nickel-Samaria Doped Ceria Anodes for Intermediate-Temperature Solid-Oxide Fuel Cells (Waqas Hassan Tanveer)
	OP027 / 207 A Method for Calculating the Output Power of CNC Machine Tool Spindle Motor Driven by VWF (Peiji Liu)	OP033 / 248 Prediction of Displacement about an U-tube in Heat Exchanger through Fluid Structure Interaction (JeongHoo Park)	OP039 / 339 Bio-Mimetic Bi-stable Structure with Polymer (Jun-Young Lee)	OP045 / 175 Cation Segregation in Perovskite Thin Film Cathode of Solid Oxide Fuel Cells (Wonyoung Lee)
	OP028 / 035 Investigation of Surface Texture Effects in Sapphire Tool Cutting (Yuan Wei)	OP034 / 098 Study on the Reduction of Edge Effect in Vacuum Insulation Glazing using the Finite Element Method (Wookjin Lee)	OP040 / 347 A Bistable Mechanism using Residual Stress for Morphing Structures (Seung-Won Kim)	OP046 / 357 Vibration Modeling for Designing Self-operable and Sustainable Triboelectric Generators (Divij Bhatia)
	OP029 / 318 Thermal Durability and Fracture Behavior of Thermal Barrier Coatings in Thermally Graded Mechanical Fatigue Environments (YeonGil Jung)	OP035 / 316 Influence of Material Properties on Surface Deflection in Rectangular Embossing (Woo-Sung Kim)	OP041 / 411 Rotary Magnetostrictive Motor Using Helical Magnetic Field (Young-Woo Park)	OP047 / 167 Flue Gas Emissions Control in Gas Turbine Power Plant using Artificial Neural Networks (Sujatha Kesavan)
	OP030 / 269 Strengthening of Ceramic Mold for Precision Casting using Inorganic Precursor (Geun-Ho Cho)	OP036 / 142 Multibody Dynamic Analysis of a Washing Machine with a Rapid Change of Mass during Dehydration Process (Jin-Seok Jang)	OP042 / 571 Localized and Selective Synthesis of Heterogeneous Nanomaterial Array (Inkyu Park)	OP048 / 414 Study on the Magnetostrictive Position Sensor for Nuclear Reactor Application (Eun-Ju Yoo)
15:20-15:30	<i>Coffee Break</i>			

* Organized Session

24 Wednesday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
15:30-16:00	Keynote Speech 5		Keynote Speech 6	
	Choon-Man Lee		Shijie Liu	
	A New Conceptual Three-Dimensional Laser Assisted Milling System <i>Chair: Seong-Wook Hong</i>		Biodegradable and Recyclable Bioplastics PHA and Its Production from Woody Biomass <i>Chair: Sung-Hoon Ahn</i>	
	Welding / Heat treatment	Design II	Green Composite *	Green Lighting *
	<i>Chairs Denni Kurniawan Kwangsoo Park</i>	<i>Chairs Kesavan Sujatha Hyung Wook Park</i>	<i>Chairs Marissa Paglicawan Feng Liu</i>	<i>Chairs Keun Park Sungho Jeong</i>
16:10-17:40	OP049 / 162 A Study on the Selection of Position and Number of Spot Welding by Using Method of Tolerance Analysis in Influence Coefficient (Dong Kyu Lee)	OP055 / 242 Shape Design of Bottom-plug used in 3-way Reversing Valve to Minimize Cavitation Effect (Myeong Gon Lee)	OP061 / 496 Environmental Assessment on Flux-cored Aluminum Wire (Li Bao)	OP067 / 127 Micro-optical Pattern-based Switchable Glass for Laser-driven White Lighting (Sangki Park)
	OP050 / 015 Compact Bake Hardening of Complex Phase Ultra-high Strength Steels using Electroplasticity (Trung Thien Nguyen)	OP056 / 343 Selection and Sequencing of Machining Processes for Prismatic Parts Using Process Ontology Model (Mujin Kang)	OP062 / 226 Recent Development of Eco-friendly Brazing and Soldering Materials (Qingke Zhang)	OP068 / 144 Thermal Dynamic Modeling of LD Cooling System and Performance Enhancement of LD Cold Plate Made by 3D Printing (Changho Byun)
	OP051 / 018 Compact Tempering Process of Automotive Springs using Electrically Assisted Rapid-heating and Electroplasticity (Gi Dong Park)	OP057 / 380 Registration of Point Cloud Data using Coarse-to-fine Approach (Upendra Mani Tuladhar)	OP063 / 494 Research of Cadmium-free Silver-based Filler Metals Based on Green Manufacturing (Tianran Ding)	OP069 / 163 Modeling of Laser-driven White Lighting with Consideration of Phosphor Particle and Surface Model (Dong-Ho Lee)
	OP052 / 021 Friction Stir Welding of Dissimilar Aluminum Alloys and Resultant Electroplastic Properties (Eun-Yeong Ahn)	OP058 / 100 Development of a 3-RPR Parallel Mechanism for Geometric Error Compensation and Vibration Assisted Machining (Jae-Chang Lee)	OP064 / 419 Effect of Environmental Condition on Friction and Wear Characteristics of Atomically Thin MoS ₂ and Graphene Using AFM (Bien Cuong Tran Khac)	OP070 / 038 Effect of Pressurizing Hub Ring on Material Removal Uniformity in Sapphire CMP (Chuljin Park)
	OP053 / 022 Effect of Tool Geometry on Process Parameters and Material Properties of Friction Stir Spot Welds of Aluminum Alloy (Ju-Ri Kim)	OP059 / 336 An Approach for Automatic Determination of Machining Sequence of Interacting Feature (Mujin Kang)	OP065 / 146 Design and Control of Wrist-like Smart Soft Composite Actuator (Hugo Rodrigue)	OP071 / 081 Effect of Platen Shape on Evolution of Total Thickness Variation in Single-sided Lapping of Sapphire Wafer (Taekyung Lee)
	OP054 / 445 Evaluation of Deposited Al ₂ O ₃ Material on Sapphire Wafer using Laser Assisted Nano Particle Deposition System (Jung-Oh Choi)	OP060 / 149 Three-dimensional Shape Modeling through Assembling Wireless Physical Blocks with Sensors (Seungjin Lee)	OP066 / 190 Design and Fabrication of Flexible Hinge Actuator made of SMA-based Smart Soft Composite (Wei Wang)	

25 Thursday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Forming I * / Joining	Design III	Composites	Strategy
	<i>Chairs</i> Tae-Wan Ku <i>Weimin Long</i>	<i>Chairs</i> Frank C. Park <i>Chih-Hsing Chu</i>	<i>Chairs</i> Young-Bin Park <i>Hak-Sung Kim</i>	<i>Chairs</i> Ming-Chuan Chiu <i>Hwa-Cho Yi</i>
	OP072 / 215 Rapid Prediction of Longitudinal Curvature for Flexibly-reconfigurable Roll Forming by Response Surface Methodology (Jiwoo Park)	OP078 / 378 Hardness Prediction of Partially Quenched Boron Steel using QFA and ANN (Jaehong Kim)	OP085 / 534 Novel Fe/Fe ₃ O ₄ /carbon Composite with Hierarchical Porous Structure and N-doped Graphene-like Layers Formed In-situ for High-performance Lithium Ion Batteries (Yao Li)	OP091 / 138 Green Manufacturing Practices Maturity Assessment Model for Malaysian SMEs (Nor Syakirah Ayub)
	OP073 / 094 Comparison of Experimental and Numerical Results using Flexibly-reconfigurable Roll Forming for 3D Curved Sheet (Jun-Seok Yoon)	OP079 / 370 A Study on the Effects of the Blank Design on the Product Quality of the Thermoformed Inner Case for Refrigerator (Ho-jin Lee)	OP086 / 087 Organic-surfactant Free Green Pickering Emulsion Polymerized Smart Composite Particles and Their Stimuli-response (Hyoung Jin Choi)	OP092 / 155 Structural Systems and Construction Practices in Social Housing (Dario De Domenico)
13:30-15:15	OP074 / 276 Remanufacturing Failure Analysis based Assessment of Remanufacturability for 42CrMo Steel Double Chain Wheel Shaft (Youbao Song)	OP080 / 268 An Experiment and FE Simulation for the Development of High Strength Steel One-body Door Impact Beam for Cars (Tae Ho Yoon)	OP087 / 259 Development of Green Composites using Alkali-treated Abaca fibers and Polylactic Acid (Blessie Basilia)	OP093 / 171 Utility Based Selection and Categorization through Text Clustering for Sustainability Metrics (Kijung Park)
	OP075 / 326 A Numerical Determination of the Material Parameter from Electromagnetic Free Bulge Forming (Hak Gon Noh)	OP081 / 300 A Study for ICI Nozzle Failure of Lower Head under Severe Accident Conditions (Ji-hoon Bae)	OP088 / 186 Strength Evaluation of the Wound Glass Fiber Composite Material for CNG-2 Cylinder (Chan Gon Park)	OP094 / 221 Product Design Analysis to Support Leasing Business Model Based on Product Service System (Hsiao-Min Chen)
	OP076 / 074 Incremental Forming of 3D Structured Aluminum Sheet (Do Van Cuong)	OP082 / 179 The Vulnerability Assessment of Ground Combat Vehicles Using Target Functional model and FTA (Chul Yoo)	OP089 / 535 Strong and Ductile Aluminum Composites Fabricated by Flake Powder Metallurgy (Zhiqiang Li)	OP095 / 426 Modeling of Customized ELV Dismantling Plant for different Countries (Hwa-Cho Yi)
	OP077 / 227 Energy Saving Processing Technologies of Nonferrous Welding Materials (Weimin Long)	OP083 / 243 A Computational Framework for Optimal Disassembly Planning in Computer Aided Green Product Design (Chih-Hsing Chu)	OP090 / 267 Basic Study of Behavior Characteristics of Emulsified Fuel (Jeong Hwan Yoon)	OP096 / 233 Sustainability Effects of Industrial Energy Efficiency Investment to Communities (Jun-Ki Choi)
		OP084 / 576 An RFID Localization Algorithm for a Plug-in Electric Vehicle Recharging Robot (Frank C. Park)		OP097 / 071 A Case-based Method for Service-oriented Value Chain and Sustainable Network Design (Ming-Chuan Chiu)
15:15-15:30	Coffee Break			
	Keynote Speech 7	Keynote Speech 8	Keynote Speech 9	Keynote Speech 10
	Seong Jin Park	Mitsutaka Matsumoto	Kai Cheng	Gul E. Kremer
15:30-16:00	Current Research Activities and Future of Powder Injection Molding	Product Remanufacturing as an Enabler for Sustainable Manufacturing	Multi-scale Sustainable Manufacturing: an Engineering-oriented Approach and its Implementation Perspectives	Economic and Environmental Sustainability across Product Supply Chains
	<i>Chair: Yong Tae Park</i>	<i>Chair: Suk-Wan Cha</i>	<i>Chair: Woonbong Hwang</i>	<i>Chair: Chih-Hing Chu</i>

* Organized Session

25 Thursday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Forming II * / Joining	Optimization	Micro - Nano Technology / Coating	PLM / SCM / LCA
	<i>Chairs</i> Tae-Wan Ku Weimin Long	<i>Chairs</i> Baeksuk Chu TaeWan Seo	<i>Chairs</i> BoHung Kim Doo-Man Chun	<i>Chairs</i> Ming-Chuan Chiu Kwangyeol Ryu
16:10-17:40	OP098 / 355 Electrochemical Corrosion Properties of Aluminum Alloy Welding Wire in Different Environments (Quanbin Lu)	OP104 / 097 Experimental Evaluation of Position Compensation Algorithm Applied on an Omni-directional Mobile Robot (Baeksuk Chu)	OP110 / 292 The Enhancement of Fractional Bandwidth of Ultrasonic Air Transducer Using Acoustic Block (Byoung Kyun Kim)	OP116 / 273 An Integrated Life-cycle approach to Evaluating the Green Degree of Electronic Products in the Conceptual Design Phase (Liming Wang)
	OP099 / 109 Optimization of Ti-6Al-4V Feedstock for Titanium Powder Injection Molding (Dongguo Lin)	OP105 / 406 Study on Dispersions of Design Parameters based on Hit Probability (Hwan Il Kang)	OP111 / 438 Effects of Surface Energy on the Nonlinear Behaviors of Laminated Nanobeams (Baolin Wang)	OP117 / 239 A Modularization Method of MES Functions for Gradual Implementation (Hwaseop Lee)
	OP100 / 348 Tool Design for Thick Plate Forming of Hollow Partitioned Turbine Blade (Gi-Bum Park)	OP106 / 177 Study on Noise Reduction of Power Pack with Design of Experiment (DOE) (Jae Min Kim)	OP112 / 402 Room Temperature Fabrication of Transparent Conductive Electrode (TCE) via Nano Particle Deposition System (NPDS) (Dahyun Choi)	OP118 / 320 Reconfiguration Planning Problem for Reconfigurable Manufacturing Systems Featuring Green-BOM (Kezia Amanda Kurniadi)
	OP101 / 459 Effect of Ce and Sb on Microstructures and Mechanical Properties of AZ31B Magnesium Alloy Welding Joint Using AC Magnetic Field Oscillation (Shengxin Liu)	OP107 / 344 Multi-objective Optimization of an Axial-flow Pump Impeller Shape by using an Evolutionary Algorithm (Fuqing Miao)	OP113 / 099 Investigation of the Physical Characteristics of Hydrogel Coatings (Chang-Lae Kim)	OP119 / 328 Development of a Multi Agent-based Negotiation Methodology for Reconfiguration of Manufacturing Processes (Sangil Lee)
	OP102 / 460 Effect of La and Ce on Microstructure and Corrosion Resistance of Mg-3Al Magnesium Alloy (Ya-Rong Zhang)	OP108 / 156 A Study on the Servo-gain Mismatch Measurement using a Laser Tracker (Hoon-Hee Lee)	OP114 / 133 Study of Graphite Deposition using Nano-Particle Deposition System with Molecular Dynamics (MD) Simulation (Mohammad Nur E Alam Al Nasim)	OP120 / 070 A Systematic Product Service System Design Methodology Based on Dissatisfied Customers - A Case Study of Clothes Industry (Chih-Yuan Chu)
	OP103 / 388 Thermal Design of the Absorber for Solar Collector During Cooling Season (Jae-Hyeong Seo)	OP109 / 183 Search for BWMS installation space using 3D grid (SongkwunJun)	OP115 / 487 The Film-forming Mechanism and Application of Ti/Zr/Mo Colored Conversion Coating Prepared on Aluminum Alloy (Xiaohui Liu)	OP121 / 261 Design and Analysis of Low Carbon Product Supply Chain Network (Tsai Chi Kuo)
17:40-18:00	Invited Speech 5	Invited Speech 6	Invited Speech 7	Invited Speech 8
	Bo Hyun Kim	Seung Hwan Ko	Hak-Sung Kim	Chong Wen Tong
	Micro Structuring of Glass by Non-Traditional Machining Processes	Nanomaterial based Flexible/Stretchable Electronics Fabrication Process	Nanotech Based Flash Light Sintering Technology and its Application for Printed Electronics	The Green Design and Application of a Hybrid Wind-Solar Energy Powered Outdoor Lighting and Charging System
18:00-20:00	Official Banquet at China Hall 2			

26 Friday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Non-Traditional Processes	Robotic Application of 3D Printing *	Reliability	
	<i>Chairs</i> Seong Jin Park Denni Kurniawan	<i>Chairs</i> Ho-Chan Kim Jae-Won Choi	<i>Chairs</i> Zihui Xia Liming Wang	
9:00-10:15	OP122 / 092 Hybrid Deburring Process of the Patterned Metal Masks using the Large Pulsed Electron Beam (Hyung Wook Park)	OP127 / 305 Characteristics of Study Material Mixed for Hybrid Sensor Fabrication (Haeyong Yun)	OP132 / 471 Numerical Investigation on the Impact of Tubular Electrode on Slag Temperature Distribution of Electroslag Remelting Process (Baokuan Li)	
	OP123 / 321 Development of Integrated Stub End by Spinning Process without Forming Die (Gi-Yeol Gwak)	OP128 / 311 Studies on the Synthesis Material using a Three-roll Mill (Haeyong Yun)	OP133 / 089 Evaluation of Plastic Limit Loads for Compact Pipe Specimen in Various Load Ratio (Keont Tae Park)	
	OP124 / 161 Research on Measuring Method of Drilling Nickel-based Powder Metallurgy Superalloy (Hui Wang)	OP129 / 325 PDMS Based Tactile Sensor for Various Loading Conditions (Min Kyung Kim)	OP134 / 217 Characteristics of Tapered Roller Bearing Subjected to Geometrical Errors (Van-Canh Tong)	
	OP125 / 517 Application of Industrial Robot in the Field of Investment Casting of Titanium Alloys (Ping Yan)	OP130 / 395 Direct-print Photopolymerization and Characterizations of 3D Tactile Sensors (Jukyong Lee)	OP135 / 234 Analytical Prediction of Flow Stress on Al. alloy-SRPP Laminated Material considering Temperature-dependent Material Constants (Eu-Tteum Park)	
	OP126 / 483 Metal Surface Polishing by Micro Plasma Beam Produced by High Voltage Pulse Discharge (Wei Dai)	OP131 / 040 Quick & Low-cost Prototyping Method of Contacts Metallization (Amir Abidov)	OP136 / 037 Damage Mechanisms and Potential Improvement of Reliability of Coke Drums (Zihui Xia)	
	10:15-10:30	<i>Coffee Break</i>		

* Organized Session

26 Friday

	Room #1 (Function 24)	Room #2 (Function 25)	Room #3 (Function 26)	Room #4 (Function 27)
	Alloy / Casting / Polishing	Vehicle	Life Prediction	
	<i>Chairs</i> Zhiqiang Li Chan-Hong Lee	<i>Chairs</i> Kyu-Jin Cho Qiubao Ouyang	<i>Chairs</i> Chang-Ju Kim Ki-Hoon Shin	
	OP137 / 516 New Technology of V-process Molding Low Pressure Casting Aluminum Alloy Castings (Jiang Wu)	OP141 / 405 Study on Roll Variation Based Hit Probability Prediction For a Combat Vehicle Design (Hwan Il Kang)	OP148 / 090 Fatigue Life Prediction of Spiral Welded Waterworks Pipe (Suk Woo Hong)	
	OP138 / 492 Soldering Seam Microstructure and Mechanical Properties of Magnesium Alloy AZ31 Soldered Joint using MgZnSn Filler Metal (Li Ma)	OP142 / 280 Design and Control of a High Speed Unmanned Underwater Glider (Sang-Ki Jeong)	OP149 / 065 Thermo Mechanical Fatigue Life Prediction of Ni-based Superalloy IN738LC (Dongkeun Lee)	
10:30-12:15	OP139 / 245 Mirror-surface Characteristics due to Parameter Variation of Ultra-precision Machining (Ki-hyeong Song)	OP143 / 286 A Study on Unmanned Underwater Track Vehicle with Ladder Trencher (The Vu Mai)	OP150 / 086 Evaluation of the Thermal Gradient Fatigue Characteristics of the Thermal Barrier Coating through the Finite Element Analysis (Jeong-Min Lee)	
	OP140 / 453 A Three-Dimensional Model for the Prediction of Macrosegregation in Electroslag Remelting Ingot (Qiang Wang)	OP144 / 401 Study on Hit Probability for Combat Vehicle with Arms (Hyun Soo Kim)	OP151 / 125 Life Prediction of Thermal Barrier Coating Considering Degradation and Thermal Fatigue (Hyunwoo Song)	
		OP145 / 060 Analysis and Comparison of Power Management Strategies for Hybrid Electric Vehicle (Heeyun Lee)	OP152 / 137 TBC Delamination Life Prediction Considering Al- diffusion Process of Bond Coat (Yongseok Kim)	
		OP146 / 046 Sequential Shifting and Efficiency Analysis of Multi- speed Automatic Transmission (Seungwan Son)	OP153 / 091 Reliability Enhancement of Mechanical Components using Carbon-based Coatings (Mahdi Khadem)	
		OP147 / 524 Research on Hybrid Energy Management Strategy in Dynamic System based on Fuzzy Logic Control (Yanqiu Chen)		

* Organized Session

25 Thursday

09:00~10:20

POSTER *session*

	Design	Manufacturing I	Manufacturing II
	CAD/CAE/CAM	3D Printing and Nano Printing / Optimization	Non-Traditional Machining
1	PP001 / 356 Numerical Study on the Fluid Dynamic Characteristics Around a Self-Cleaning Bar Screener System (Haider Ali)	PP021 / 423 Study of PLA/SMA Actuator Manufactured by 3-D Printing (Young Jun Pyo)	PP039 / 410 Elucidating the Optimal Parameters of Helical Passageways in the Complex Hole Polishing (A-Cheng Wang)
2	PP002 / 285 Influence of the Protruded Height and the Slope of the Hardfaced Region with Thermal Stress Control Layer on Thermal Characteristics of the Stellite21 Hardfaced SKD61 Hotworking Tool Steel (Dae Seon Guk)	PP022 / 397 3D Printing Mold for Free-formed Concrete Structure (Junghwan Seo)	PP040 / 503 Efficiency Improvement of Electrochemical Discharge Machining using Abrasive Wire (Ki Woon Chae)
3	PP003 / 003 Fault Status Assessment for Multistage Planetary Gear Set based on Dynamic Modeling and Experimental Analysis (Guoyan Li)	PP023 / 182 Artificial Muscle for Biomimetic Hand Using Smart Woven Fabric (Min-Woo Han)	PP041 / 079 Effect of Porthole Shapes on Deformation of Die and Welding Strength of Tube in Multi-Cell Tube Extrusion (Jungmin Lee)
4	PP004 / 368 The Structural Analysis on Variable Characteristics of Automotive Seat Frame by FEA (Yoonsun Lee)	PP024 / 187 Direct Patterning of Micro Conductive Line Using AFN Printing (Hae-Sung Yoon)	PP042 / 083 Development of Al 3003 Condenser Tube Using Precision Extrusion Process (Jungmin Lee)
5	PP005 / 271 Analysis of Fluid-Structure Interaction of High-Precision Cleaning System of Micro Drill Bits (Hyunjin Choi)	PP025 / 200 Twisting Motion Test of Shape Memory Alloy-Micro Wire with Focused Ion Beam and Nanomanipulation System (Hyun-Taek Lee)	PP043 / 049 Tribological Effects of Textured Surface with Surface Roughness Properties (Miru Kim)
6	PP006 / 194 Design of an Impact Energy Absorbing Structure for a High Weight Drop Impact Tester under Extreme Environments (Jin-Seok Jang)	PP026 / 337 Direct Patterning of Electrochromic Display (Sung-Ik Park)	PP044 / 057 Development and Performance Evaluation of SLS System Using the Novel Laser Sintering System (Sungwoo Bae)
7	PP007 / 195 Development of Design Program on Button Arrangement of a Drill Bit for Improving Drilling Efficiency (Hoon Kang)	PP027 / 442 Manufacturing Process of Smart Soft Composite Structure using 3D Printing (Sung-Hyuk Song)	PP045 / 511 Experimental Study on the Distortion of Ti-6Al-4V Substrate during Laser Cladding (Junjie Lu)
8	PP008 / 002 Establishment and Analysis of Erosion Depth Model for Impeller Material FV520B (Zi-wu Liu)	PP028 / 465 Development of Backpack Type Vaccine Carrier - A Case Study in Nepal (Min-Soo Kim)	PP046 / 274 Friction Stir Welding Process Parameters for Al-Li Alloy and Influence of Tool's Shoulder on Weldability (Joon-Tae Yoo)
9	PP009 / 052 Modeling and Fabrication of Functionally Graded P21/Cu Structures using Laser-aided Direct Metal Tooling (Ki-Hoon Shin)	PP029 / 466 A Study on Damping Capacity of CFRP with Nanoscale Shape Memory Alloy Powder Filler (Hyung-Soo Kim)	PP047 / 409 Impact Extrusion Process of Al deep Square Cup for Secondary Battery of Electronic Car (Seongwon Lee)
10	PP010 / 476 Web-based Process-planning Framework for Hybrid Nano-scale Manufacturing Using AFN Printing and FIB (Dae-Wook Kim)	PP030 / 526 Robust Design of Smart Soft Composite Actuator Using Taguchi Method (Mincheol Kim)	PP048 / 418 Numerical Investigation on Welding Residual Stress and Out-of-plane Displacement during the Heat Sink Welding Process of Thin Stainless Steel Sheets (Sungmin Joo)

25 Thursday

09:00~10:20

	Design <i>CAD/CAE/CAM</i>	Manufacturing I <i>3D Printing and Nano Printing / Optimization</i>	Manufacturing II <i>Non-Traditional Machining</i>
11	PP011 / 181 A Study on the Influence of Planet Carrier Manufacturing Error to Planet Load Sharing (Kyung Min Kang)	PP031 / 236 Simulation of the Local CVD Using Nozzle Based Gas Injection System (Kang-In Lee)	PP049 / 544 Thermal Sprayed Aluminum Coating on Glass via Different Pretreatments and Spraying Processes (Xiaohui Liu)
12	PP012 / 529 The Cutting Simulation and Design in the Water Hyacinth Collecting Ship (Dandan Wang)	PP032 / 555 Solidification and Microstructure of Bi-Sn Alloy Fused Deposition 3D Printing (Wenjuan Rong)	PP050 / 452 A Modeling for Heat Transfer Characteristic when the LM Guide is Heated by Heating Plate (Myoung Hwan Jo)
13	PP013 / 275 Finite Element Analysis of Free Surface Fluid Flows Using Lagrangian Method (Myeong-Sik Jeong)	PP033 / 417 Development of Design Technology for Improving Grinding Efficiency of a Cutting Head Attachment (Jin-Seok Jang)	PP051 / 080 The Application of Microwave Drying Technology in the Loose Fiber Dyeing Field (Shaozong Wang)
14	PP014 / 346 A Powder Compaction Process Design using Finite Element Analysis and Environmental Effects Analysis (Myeong-Sik Jeong)	PP034 / 061 Optimum Study of Vibration Mode of Rock Feed Device for a Mobile Crusher (Chang-Heon Song)	PP052 / 111 High Speed Electrical Discharge Machining with a Non-round Electrode for Metal Matrix Composites (Jiangwen Liu)
15	PP015 / 277 Prediction of Die Life for Shearing Process Using FE Analysis (Sang-Kon Lee)	PP035 / 303 Development of Optimum Injection Mold Technology for High Performance Insulator (Myoung Ho Kim)	PP053 / 019 Reduction of Residual Stress in Automotive Springs using Electroplasticity (Gi Dong Park)
16	PP016 / 296 Design of Grid Type Die Using DA Method for Hot Spherical Forming of Al Plate (In-Kyu Lee)	PP036 / 084 Optimization of Machining Parameters for Engine Cylinder Block Based on Power Efficiency Analysis (Xiaona Luan)	PP054 / 023 The Effect of Electrically Assisted Rapid Heating on the Mechanical and Microstructural Properties of Al-Si Coated Hot Stamping Steels (Thi Kieu Anh Dinh)
17	PP017 / 306 FEA Technique of Hot Forming Process Using Grid-Typed Die for Prediction of Spherical Shape of Al Plate (Sung Yun Lee)	PP037 / 464 A Study on Contact Force Effected by Current Density Distribution, Inductance Gradient between Railgun and Armature as Armature Design and Its Experiment (Hongkyo Kim)	PP055 / 024 Development of Electrically Assisted Rapid Heating Process for Hot-stamping (Mahmudun Nabi Chowdhury)
18	PP018 / 428 Modeling and Analysis of Articular Motion by Using Tendon Mechanism (Hong Seok Lim)	PP038 / 491 Design System For Passenger Airbag (Eunyoung Kim)	PP056 / 403 Precise Superhydrophilic / Superhydrophobic Patterning by CNC Laser System (Jinyoung Park)
19	PP019 / 500 The Research of Laser Quenching Process on 20 CrMnMo Gears though Finite Element Method and Test (Yuling Wang)		PP057 / 172 Hybrid Process Characteristics of Gas in EDM with Ultrasonic Vibration (Yan-Cherng Lin)
20	PP020 / 547 Analysis of Loosening Mechanism of Bolt in Power Train (Sung-Hwan Kim)		PP058 / 486 The Temperature Field of Laser Welding of Titanium Steel Dissimilar Materials Distribution Research Based on ANSYS (Xiao Hong Hu)

25 Thursday

09:00~10:20

	Machinery I	Materials I	Quality Assurance
	<i>Precision Machinery and Related Materials</i>	<i>Carbon Composites & Convergence Technology / Green Composite</i>	<i>Reliability Analysis</i>
1	PP059 / 095 Pareto Front Multi-objective Optimization of Multi-point Dieless Forming Process (Misganaw Abebe Baye)	PP078 / 289 Evaluation of Mechanical and Thermal Properties of Silica-reinforced Epoxy Composites by Using Experiments and Empirical Numeric Models (Hee Yong Kang)	PP098 / 358 Reliability Assessment Technique of Local Cooling System for Data Center (Baek Ju Sung)
2	PP060 / 542 Surface Integrity of Ti-6Al-4V Parts Machined by Cryogenic Turning (Myeong Gu Gang)	PP079 / 309 Preparation of Porous PLGA Microfiber in Microfluidic Device using Pore Template (Chul Min Kim)	PP099 / 066 Consideration on the Effect of Preheating Temperature on Residual Stress Generated During APS Process (Jae-Mean Koo)
3	PP061 / 448 Performance Evaluation of a High-precision 5-axis Machine for Cutting Diffractive Optical Elements (Chang-Ju Kim)	PP080 / 006 Tensile Properties and Microstructure of Squeeze Cast Magnesium Matrix Composite Reinforced with 35 VOL.% of AL ₂ O ₃ Fibers (Henry Hu)	PP100 / 069 Effect of Reverse Cyclic Loading on Fracture Resistance Curve of Equivalent Stress Gradient(ESG) Specimen (Chang-Sung Seok)
4	PP062 / 222 Gravitation and Bending Stress Effects on the Radial Stress in Center-wound Roll (Byeonghui Park)	PP081 / 470 A Study on the Analysis Method of PMP Module (Gye-Hyeon Jo)	PP101 / 085 Evaluation of Life of APS-TBC According to Heat Deterioration Period by Burnerring Test (Jung-In Byun)
5	PP063 / 495 Determination of the Coordinate Transformation Angle of NC Data for the Minimum Cutting Energy (Chan-Hong Lee)	PP082 / 257 The Effect of Plasma Treatment on the Mechanical Properties of Polypropylene-abaca Fiber Composites (Carlo Emolaga)	PP102 / 088 Fracture Toughness of Equivalent Stress Gradient Specimen under Dynamic Loading Conditions (Byungwoo Moon)
6	PP064 / 485 A Review on Endurance Improvement of High-speed Index Table with Hypoid Gear (Jong-Wook Ahn)	PP083 / 202 A Study on the Seat Armrest with Magnesium Alloy with the Vacuum High Pressure Die-Casting Process (Min Seok Moon)	PP103 / 110 Evaluation of Fracture Toughness of Curved Equivalent Stress Gradient (Curved ESG) Specimens with Different Thickness (Tao Shen)
7	PP065 / 282 A Study on the Development of Vacuum Filter System for 6-axis Tool Grinding Machine (Chi-Hyuk Choi)	PP084 / 154 Experimental Study on Residual Stress of α -AL ₂ O ₃ /Ni Nano-composite Coatings for Remanufacturing of Connecting Rod (Jia Man)	PP104 / 153 Comparison of Durability between Conventional Ceramic and Surface-modified Plungers Coated by Powder Using High Velocity Oxygen Fuel Spraying (Myung-Whan Bae)
8	PP066 / 345 A Study on the Stability Evaluation by Rotational Accuracy Analysis of a Machine Tool for Heavy-cutting (Jung-Hoon Lee)	PP085 / 232 Synthesis of Macro-porous Silicon Powder for Anode Materials of LIBs (Min Jung Kim)	PP105 / 416 Study of Machinability Characteristics for Wear Resistant Steel of Energy Plant Pipe (Kwangsoo Park)
9	PP067 / 467 An Experimental Study on the Copper Alloy Filter for Recycling of Cutting Oil (Young-Hwa Roh)	PP086 / 468 Microstructure Analysis of Geopolymers Using Fused Slags with Transmission Electron Microscopy (Yootaek Kim)	PP106 / 203 Creep Deformation Behaviors Affected by Temperatures of Lead-free Solder Joints (In Deok Son)
10	PP068 / 537 A Study on the Time of Accelerated-life Test for an Index Table with Hypoid Gear (Choon-Man Lee)	PP087 / 165 Influence of Surface Treatment on Interfacial Bonding Strength between Aluminum Alloy Guide-sleeve and Resin (Juanjuan Qiao)	PP107 / 246 Determination of Tensile Force to Enhance Supply Stability of Reinforced Fiber (Kun-Woo Kim)

25 Thursday

09:00~10:20

	Machinery I	Materials I
	<i>Precision Machinery and Related Materials</i>	<i>Carbon Composites & Convergence Technology / Green Composite</i>
11	PP069 / 073 Directed Energy Deposition Process for Tool Steel: Microstructure and Hardness (Jun Seok Park)	PP088 / 329 Effect of Process Parameters and Laminating Methods on Spring-back in V-bending of CFRP/CR340 Hybrid Composites (Suwon Choi)
12	PP070 / 223 Development of Green CMP by Slurry Reduction through Controlling Platen Coolant Temperature (Haedo Jeong)	PP089 / 373 Comparative Study on Formability of CR340/CFRP Composites Using Theoretical and Experimental Methods (Min-Sik Lee)
13	PP071 / 522 Effect of Polishing Pad on Material Removal in Linear Roll-CMP: Mathematical Modeling (Hyunseop Lee)	PP090 / 007 Research on Rheological Behavior of Straw Fiber Reinforced Biomass Composites (Fangyi Li)
14	PP072 / 376 Solidification Microstructures with the Solidification Rates in the AZ91 Magnesium Alloy (Changhoon Sung)	PP091 / 323 A Study of Pressure Load for Stiffened Composite Hull under Buckling and Failure (Jiwoo Jang)
15	PP073 / 381 High Temperature Oxidation Behavior with Different Grain Orientations in the Ni-base Superalloy CM247LC (Changhee Kim)	PP092 / 254 Preparation of Cassava Starch-based Biocomposites Containing Different Nanomaterials (Marissa Paglicawan)
16	PP074 / 432 Effect of γ - γ' Eutectic Microstructures on Solidification Rates and Heat-Treatments in the Single Crystal Ni-base Superalloy CMSX-4 (Tianshu Yang)	PP093 / 048 Effect of the CaO on Microstructure and Mechanical Strength of Fly Ash Based Geopolymer (Ji Hwan Won)
17	PP075 / 434 Solidification Microstructure and Phase Selection with Solidification Rates in High MnAl Steels (Jaejoon Lee)	PP094 / 020 Effect of Pb Content and Heat Treatment on Thermoelectric Properties of AgPb18+xSbTe20 Alloys (Sheng-Long Lee)
18	PP076 / 435 Formation of Pb-Bi Eutectic on Solidification in the A2011 Alloy (Yu Jung Lee)	PP095 / 078 Controlling Roughness of Composite Surface by Thermal Expansion for Wettability Control (Jeong-Won Lee)
19	PP077 / 056 Linear Percussion Test of a Cluster-hammer Drilling Machine Complemented with Water-jet Cutting (Jung-Woo Cho)	PP096 / 523 Effect of Recycled Polyethylene on Thermal and Rheological Properties of Bitumen Materials (Yern Chee Ching)
20		PP097 / 260 Green Flame-retardant Thin Film Coatings Assembled by Automatic Spraying Layer-by-layer System (Seongmin Seo)

25 Thursday

10:50~12:10

	Manufacturing III	Machinery II	Materials II
	<i>Forming</i>	<i>Precision Machinery and Related Materials</i>	<i>Metals / Smart Material / Electronics</i>
1	PP108 / 369 Development of Ring with L-section for Construction Machines by Profile Ring Rolling Process (Min Cheol Park)	PP128 / 136 Effect of Physical Properties of CFBC ash on Granulation Mechanism in a High Intensive Mixer (Sang Won Lee)	PP148 / 064 Stress and Surface Tension Analysis of Water on the Graphene-Coated Copper Surfaces (Bo Hung Kim)
2	PP109 / 375 Development of Eco-fishing Sinkers by using Press Forming Technology (Min Cheol Park)	PP129 / 293 The Effect on Polycrystalline Silicon Surface Characteristic by Electrical Chemical Machining Grinding using Graphene Oxide Suspension (Kun-Ling Wu)	PP149 / 335 Forgeability Evaluation of SCNM 220 Materials by Warm Compression Test and Microstructure Behaviors Characteristic (Kyu Myeong Kim)
3	PP110 / 360 Investigation into Stretching Force in Stretch-forming Process for Manufacturing Aluminum Alloy(Al-5083) Sheet with Double Curvatures (Gyeong Yun Baek)	PP130 / 253 Machinability of Compacted Graphite Iron (CGI) in Cryogenic Cooling and MQL Conditions (Kyung-Hee Park)	PP150 / 235 Nondestructive Evaluation on Hydrogen Effect of 316L Stainless Steel (Jinkyung Lee)
4	PP111 / 527 Prediction of Dimensional Accuracy of Flange Bolt Considering Springback and Internal Heat Generation in Cold Forging (Yuangen Qiu)	PP131 / 449 Tool Monitoring System in End Milling of Titanium Alloy using Multi-Sensors (Mohd Azlan Suhaimi)	PP151 / 229 High-Efficiency Material Saving Brazing Filler Metals (Sujuan Zhong)
5	PP112 / 216 Experimental Investigation on Oil and Water Mixture Slurry for Polishing by Solid and Liquid States (Hsin-Min Lee)	PP133 / 029 Comparative Study on the Temperature Characteristics of High Speed Sleeve Bearing Based on Two Viscosity Fluids (Lili Wang)	PP152 / 314 Hydrogen Charging of 304 Stainless Steel and its Tensile Properties (Sang Pill Lee)
6	PP113 / 299 Study on Surface Characteristics of 7050-T7451 Aluminum Alloy by Ultrasonic Rolling (Laixiao Lu)	PP134 / 454 Study on Thermal Error Compensation Method for a Ball Screw Feed Drive (Sungki Lyu)	PP153 / 072 Fabrication of Ultrafine Grained AA1050/AA5052 Al Sheets by Multi-Layer Stack Accumulative Roll-Bonding (Seong-Hee Lee)
7	PP114 / 429 Cooling Channel Forming of Liquid Rocket Combustion Chamber by Hot Gas Blow Forming (Jong-Hoon Yoon)	PP135 / 174 Effects of Platen Groove on Material Removal Characteristics in Mechanical Sapphire Polishing (Wonseok Jo)	PP154 / 192 Fabrication and Photocatalytic Properties of Mo Doped TiO ₂ (Feiyi Xiao)
8	PP115 / 120 Cold Forging Process of Retainer with Deep Groove Using Horizontal-typed Press (Wonhoo Jo)	PP136 / 294 Study of On-machine Machining Inspection and Tool Wear Auto-compensation Methods for CNC turning (Chun-Yi Lee)	PP155 / 206 Fabrication of Superhydrophobic Aluminum Membrane for Effective Oil and Water Separation (Handong Cho)
9	PP116 / 240 A Study for a Mold Surface Local Strengthening Technique using the DED Process (Gwang Yong Shin)	PP137 / 362 Electromagnetic Design and Experiments of Low Frequency Active Vibrator for Integrated Mounting System (Yong-Hoon Kim)	PP156 / 334 A Novel Fabrication Technology for Superhydrophilic/Hydrophobic Surfaces of Cylindrical Pipe (Sungnam Lyu)
10	PP117 / 034 Research on Hot Stamp Fold Forming and Fold Structure Strengthening of Ultra High Strength Steel Part (Zhong De Shan)	PP138 / 160 The Verification for Extension Sequence of Telescopic Boom Employed Single Hydraulic Cylinder in Mobile Crane using Sensing Signal Based Simulation (Young Taek Cha)	PP157 / 322 The PCE Enhanced TENG Based on Kinematic Frequency Control (Wook Kim)

25 Thursday

10:50~12:10

	Manufacturing III	Machinery II	Materials II
	<i>Forming</i>	<i>Precision Machinery and Related Materials</i>	<i>Metals / Smart Material / Electronics</i>
11	PP118 / 331 Hot Forging Process Design of Asymmetrical Sprocket Wheel and Environmental Effect Analysis (Yong-Jin Choi)	PP139 / 199 Influence of Ultrasonic Vibration on Crack Generation at Hole Exit Side in Rotary Ultrasonic-drilling on Ceramics (Changping Li)	PP158 / 255 Fabrication and Characterization of Small-size Capacitive Wireless Transmission Device (Ho Chang)
12	PP119 / 210 Curling Effect on Ultimate Strength in Single Shear Bolted Connection with 6061-T6 Aluminum Alloys (Bo Kyung Hwang)	PP140 / 313 Application of Gel-Casting Process for Ceramic Core in Precision Casting (Jing Li)	PP159 / 364 Design of Luminescent Solar Concentrators with Slanted Grating Structures (Hsi-Fu Shih)
13	PP120 / 152 Research on Cutting Mechanism of Patternless Casting Sand-Mold by High Efficiency Machining (Yanzheng Li)	PP141 / 308 Lifetime Performance of EB-PVD Thermal Barrier Coatings with Coating Thickness in Cyclic Thermal Exposure (Zhe LU)	PP160 / 457 Nanocellulose Based Gels for Active Material of Reconfigurable Lens Actuator (Xiaoyuan Gao)
14	PP121 / 363 Effect of Tin Layer on Brazing Performance of Cu-based Filler Metal (Bowen Dong)	PP142 / 312 Thermal Durability of Thermal Barrier Coatings with Bond Coat Species in Cyclic Thermal Exposure (Qizheng Cui)	PP161 / 201 A New Method for Realizing Color Filter Based on Metal-dielectric-metal Structure (Yang Li)
15	PP122 / 444 A Study on the Production of Automotive Aluminum Heat Shield with Roll Forming Process (Dong-Kyu Kim)	PP143 / 391 Selection of Absorptive Material for Non-reflection Type wire Grid Polarizer (Young Tae Cho)	PP162 / 230 Design and Manufacture of a High-temperature Thermal Energy Storage Device (Yinyin Pei)
16	PP123 / 447 Development of Manufacturing Technology for Side Sill with Roll Forming Process (Dong-Kyu Kim)	PP144 / 148 A Study on Mechanical Properties and Spring-back for 3D-structured Aluminum Sheet (Seok-Hwan Oh)	PP163 / 151 Experimental Study on Shape Control of Micro-scale Wavy Structures and Their Replication using PDMS Mold (Zhijun Zhao)
17	PP124 / 490 Simulations and Experiments Study on 3D Impeller Parts Forming (Weixiao Du)	PP145 / 130 Lighter Design for Cheese Gripper Based on the Combination of Rigidity and Flexibility Mechanism (Shuangfeng Wu)	PP164 / 525 Parametric Study on Nano Shape Memory Alloy Powder Enhanced CFRP with Various Weight Percent (Jang-Yeob Lee)
18	PP125 / 278 Study on Development of Progressive-die for Automobile Structural Members with Advanced High Strength Steel (DP980) (Jong Youn Son)	PP146 / 143 Roll Design of Profile Ring Rolling Process for Arbitrary-shaped Rings (Kyung-Hun Lee)	PP165 / 126 Reception of RF and Bluetooth Signal in Surface Water (Yeonho Lee)
19	PP126 / 352 Parametric Study on Formability in Tube U-bending with Inner Mandrel (Tae-Wan Ku)	PP147 / 247 A Study of In-Process Ultrasonic-Wave Dressing Characteristics of Grinding Process (Su Young Kim)	PP166 / 214 Fracture Behavior in Adhesive Interlayer of FMLs under Mode-I Loading (Dong-Sik Kang)
20	PP127 / 012 Upsetting of Aluminum 6061-T6 Alloys Under a Pulsed Electric Current (Yong-Ha Jeong)		PP167 / 570 Design and Manufacturing Process for Soft Robotic Hand using Woven Type Smart Soft Composite (SSC) (Hyung-Il Kim)

25 Thursday

10:50~12:10

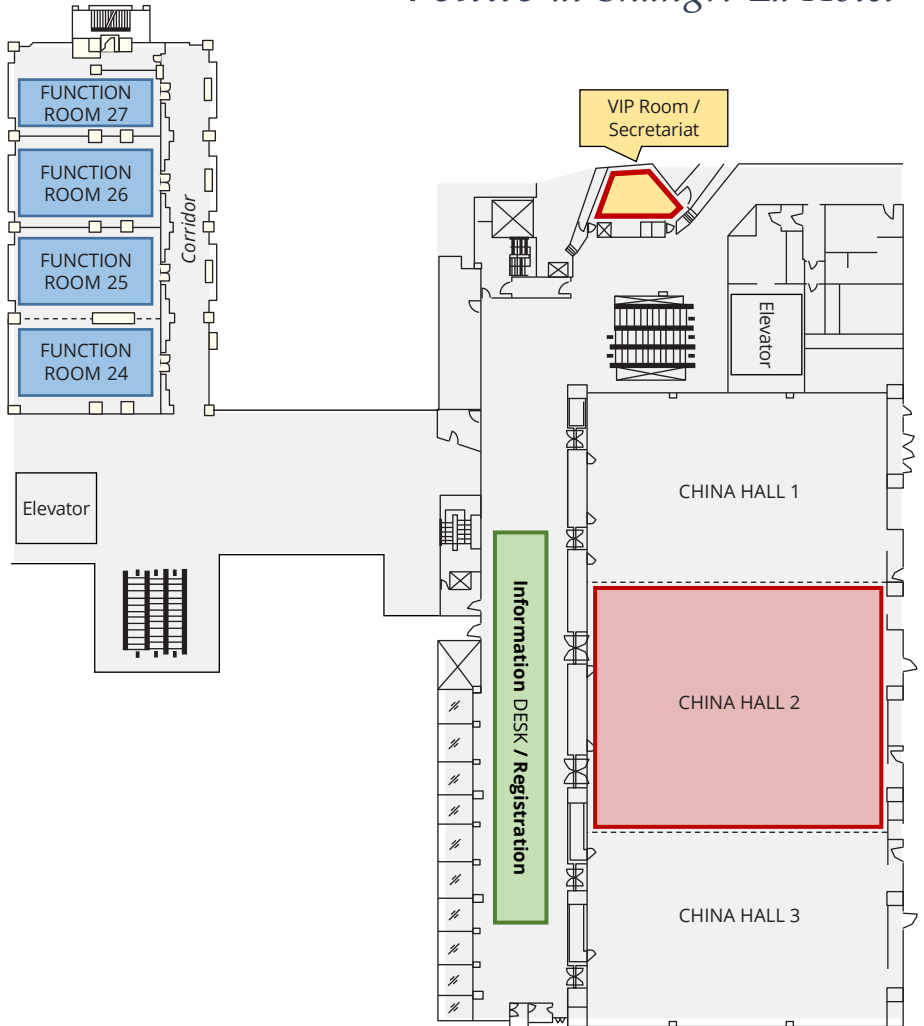
	Miscellaneous I <i>Green Technology / Bio Technology / Strategy / Printing / Surface / Coating</i>	Miscellaneous II <i>Railway Engineering / Robot / Sensor</i>	Energy <i>Fuel Cell / Green Energy / Energy Saving & Waste Reduction</i>
1	PP168 / 042 On the Plasma System for CO ₂ Dissociation (Hong-Young Chang)	PP187 / 264 A Study on the Characteristics of Self-locking Nuts for Bogies of High Speed Trains (Chan Woo Lee)	PP207 / 050 Study on the Efficiency of Dye-sensitized Solar Cells According to Spray Coating Applied to TiO ₂ Thin Film (Yong-Woo Kim)
2	PP169 / 185 Process Sensing of Collaborative Manufacturing System for Large Complex Lost-foam Supported by Industry 4.0 (Zhipeng Lv)	PP188 / 463 Modelling the Effect of Tooth Breakage on Transmission Error in Spur Gears (Dong-Hyung Lee)	PP208 / 472 Development of Novel Wind Turbine Simulator including Irregular Wind Loading Module (Eui Don Han)
3	PP170 / 055 Optimization Study of Coal Ash Filling Method in Abandoned Underground Mine (Jung-Woo Cho)	PP189 / 441 Effect of Corrosion on the Fatigue Life of Aged EMU under Fatigue Loading (Hyun Kyu Jun)	PP209 / 479 Effect of Cathode and Anode Configuration on Air-breathing PEM Fuel Cell Performance (Woong Ki Jang)
4	PP171 / 291 Research on the Influence of Information Transparency in Diesel Engine Remanufacturing Based on Discrete Event Simulation (Liu Fengwei)	PP190 / 244 Evaluation of Failure Strength on Composite-aluminum Single-lap Joints (Jeong-Gil Cho)	PP210 / 365 Plasmonic-photonic Interference Coupling and SERS Intensity using Ag-coated TiO ₂ Nanotube Arrays (Jihoon Jeon)
5	PP172 / 218 Sensitive Detection of Glucose based on Impedance Self-resonance Spectroscopy of a Micro-fabricated Biosensor (Kishor Adhikari)	PP191 / 462 F.E. Analysis of Railway Axle based on EN Standard (Jungwon Seo)	PP211 / 180 A Study on the Energy Flow Modeling for Gear System in Wind Turbine (Kyung Min Kang)
6	PP173 / 252 Thermal Performance Evaluation of Mortar Mixed with Octadecane/xGnP SSPCM for Energy Saving in Building (Su-Gwang Jeong)	PP192 / 473 Development of Durability Test Procedure of Vibration-based Energy Harvester for Monitoring System of Railway Vehicle (Ji-Won Jin)	PP212 / 231 Effect of Ceria and Zirconia as an Inhibitor for Carbon Coking and Sintering of Auto-thermal Reforming (Yeon Baek Seong)
7	PP174 / 045 A New Design of Micro-viscometer for Human Bloods using Sound Attenuation in Micro-channels (Young Taek Cha)	PP193 / 430 Diagnostics for Defect of Bogie Frame Weld (Seok Jin Kwon)	PP213 / 558 Eco-Mobile Public Toilet System Design Based on Wind and Rainwater Module (Xiaohang Wang)
8	PP175 / 317 Fundamental Frictional Investigation of Graphene Oxide Coatings (Dong-Gap Shin)	PP194 / 484 Signal Processing Method for IEEE 802.15.4 Considering Measurement-Based Wireless Channel Model under High Speed Train (Jingu Lee)	PP214 / 327 Electrolyte Engineering of AAO-based Low-temperature Solid Oxide Fuel Cell with DC Magnetron Sputtering (Soonwook Hong)
9	PP176 / 058 A Study on Fabrication Method of Positive Type Metal Grid Mesh Film using the Gravure Offset Printing Technology (Sungwoo Bae)	PP195 / 196 Evaluation of Running Safety for the Realization of the Train Passing Speed in the Elastic Turnout of Conventional Line (Young-Sam Ham)	PP215 / 333 Dopant Segregation Effect of Nanocrystalline Gadolinium-doped Ceria Cathodic Functional Layer on Oxygen Reduction Reaction (Jiwoong Bae)
10	PP177 / 279 Study of Printable Superhydrophobic Surface (Chi-Vinh Ngo)	PP196 / 342 Machine Learning Based Imaging System for Surface Defect Inspection (Hyun-Gyu Min)	PP216 / 324 Fabrication and Properties of Ultra-thin Strontium Doped Lanthanum Cobaltite Film by Metal Organic Chemical Solution Deposition (Jun-Sik Park)

25 Thursday

10:50~12:10

	Miscellaneous I <i>Green Technology / Bio Technology / Strategy / Printing / Surface / Coating</i>	Miscellaneous II <i>Railway Engineering / Robot / Sensor</i>	Energy <i>Fuel Cell / Green Energy / Energy Saving & Waste Reduction</i>
11	PP178 / 117 Relationships between Substrate Temperature, Spraying Distance and Corresponding Coating Properties at Different Surface Morphology (Hu Jin)	PP197 / 256 An Novel Device for Real Time Monitoring Pleural Pressure (Ho Chang)	PP217 / 113 A Sensitivity Analysis Method Based on Green Feature for Product Conceptual Design (Jing Li)
12	PP179 / 481 Study on the Filling Pattern and Void Formation of Phosphor Slurry for Screen Printing (Jeong Yeon Park)	PP198 / 557 Apply Fuzzy Learning Method Application for Direct Teaching Mobile Robot (Joung Hyeon Ko)	PP218 / 116 Life Cycle Scenarios Prediction for LCA of Product Design Concepts (Xiaowei Wang)
13	PP180 / 051 A Study on the Corrosion Behavior of TiN Coating for the STS304 and STS430 Alloys in PEMFC Conditions (Min Seok Moon)	PP199 / 298 Simulation and Dynamic Analysis of the Car-body Mold Heat Treatment Robot System using Redundancy (Kee-jin Park)	PP219 / 211 Research on Closed-loop Product Multi-lifecycle Information Modelling (Fengwei Liu)
14	PP181 / 393 Characteristics of Frosting and Defrosting on Superhydrophilic and Superhydrophobic Surfaces (Byungrak Park)	PP200 / 531 Development of Contact Force Measurement Algorithm for Flexible Tactile Sensor (Hyeong Jun Kim)	PP220 / 569 Construction of Renewable Energy System and Applying to Health Service in Mountainous area of Nepal (Kyung-Tae Lee)
15	PP182 / 404 Fungus Growth on Superhydrophobic and Superhydrophilic Surfaces (Yeongae Kim)	PP201 / 124 A Optimal Study of Wind Measurement Device using Piezoelectric Unimorph Benders (Hongseok Jang)	PP221 / 550 Fabrication and Electrochemical Properties of Ceramic-polymer Composite Electrolyte for Lithium Ion Batteries (Seoung Soo Lee)
16	PP183 / 251 Applications of Ultrasonic Imprinting in Developing Versatile Micropatterns (Hyun Joong Lee)	PP202 / 032 Balancing of Water-Running Robot by a Tail (Dong Gyu Lee)	PP222 / 301 Machining Strategy Considering Energy Consumption of Each Axis (Dong Yoon Lee)
17	PP184 / 415 Design of Magnetostrictive Inkjet Head for High Viscosity Fluid (Young-Woo Park)	PP203 / 033 Amphibious Locomotion by Transformable Wheel-leg Mechanism (Jae Hyung Jang)	PP223 / 310 Empirical Analysis of the Relationship between Energy Consumption and Material Removal Rate for Milling (Oscar Velasquez)
18	PP185 / 420 Friction Characteristics of Si Nanowires on Different Substrates using AFM (Bien Cuong Tran Khac)	PP204 / 241 Comparative Study of Optimal Leg Mechanisms for Fast Water-running (Sangho Lee)	
19	PP186 / 043 Characterization of Cutting Ability of a Diamond Wire according to Morphology Conditions (Doyeon Kim)	PP205 / 412 Analysis on IMU Sensor and Impact Force during Falling (Jaesoo Hong)	
20		PP206 / 575 SMA-Based Soft Twisting-bending Coupled Actuator and its Application to Active Catheter (Ying-Jun Quan)	

Venue at Shangri-La Hotel



-  ORAL SESSION/INVITED SPEECH
(Function Room 24, 25, 26, and 27)
-  PLENARY/POSTER SESSION 1 & 2
(China Hall 2)
-  REGISTRATION/GENERAL INFORMATION
(In front of China Hall 1 & 2)

Conference Information

Registration

Registration desk will be located at the second floor

CATEGORY	ON-SITE REGISTRATION
Regular (include banquet)	650 USD / KRW 650,000
Student	350 USD / KRW 350,000
Banquet (option to Student or Accompanying person)	50 USD / KRW 50,000

Awards

Best Paper Award, Best Poster Award, Young Researcher Award, Outstanding Presenter and Kahp-Yang Suh Paper Award will be presented at the banquet.

Poster Presentation

Poster will be displayed in the 'China Hall 2'.

Each poster of 'Poster Presentation I' should be posted by 08:50 and dismantled after 10:20 on June 25.

Each poster of 'Poster Presentation II' should be posted by 10:40 and dismantled after 12:10 on June 25. All poster presenters are encouraged to be at their poster panels for discussion with participants during the poster presentation time.

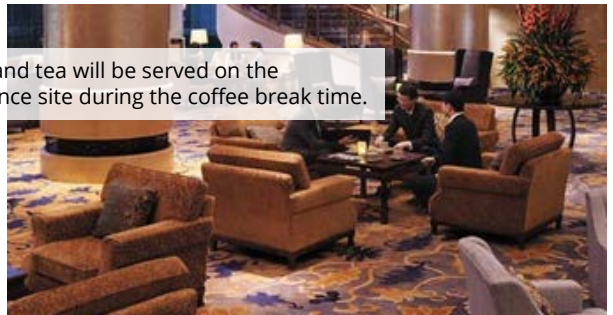
Poster Session	Date / Time
Poster Presentation I	June 25 / 09:00 ~ 10:20
Poster Presentation II	June 25 / 10:50 ~ 12:10

Information Desk

General information of the conference will be available at the information desk located in the registration desk (2F, in front of china hall) during conference time.

Coffee Break

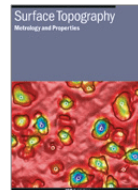
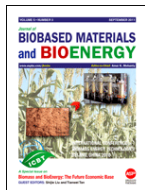
Coffee and tea will be served on the conference site during the coffee break time.



Journal Publication

Selected paper will be published in Journals below after review.

- International Journal of Precision Engineering and Manufacturing (SCIE, IF 1.500)
- International Journal of Precision Engineering and Manufacturing-Green Technology (SCIE)
- Journal of Biobased Materials and Bioenergy (SCIE, IF 0.586)
- Journal of Composite Materials (SCI, IF 1.257)
- Surface Topography: Metrology and Properties
- Journal of the Korean Society for Precision Engineering and Manufacturing (KCI)
- Journal of Computational Design and Engineering (KCI)



Lunch

TIME AND PLACE

12:20, June 24 (Wed.) / 12:10, June 25 (Thur.)



Café YUM (located in 1st floor at Shangri-La Hotel)

Banquet



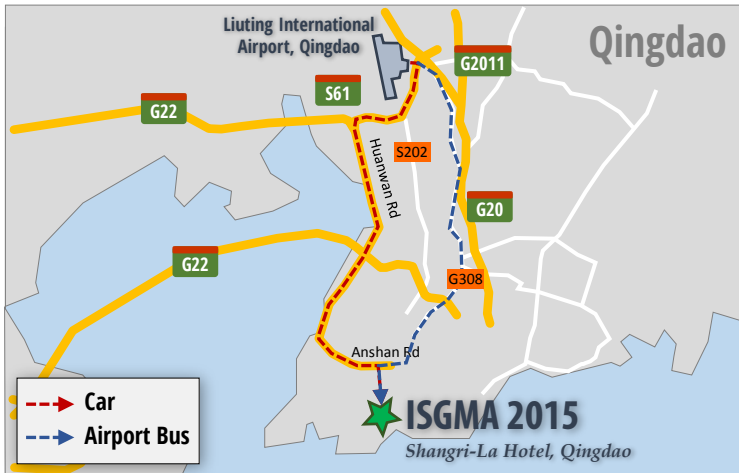
China Hall 2 at Shangri-La Hotel

TIME AND PLACE

June 25 (Thur.) / 18:00 ~ 20:00

* Banquet will be offered to regular registrants and student/accompanying people who purchased banquet (optional).

Location and transportation



Qingdao International Airport → Hotel

Taxi

40 mins, CNY 150, Taxi Stand at Domestic Arrival, Airport

Limousine Bus

1 hr, CNY 20/passenger, #701, Bus Stop at Domestic Arrival, Airport (purchase ticket first)
Get off at World Trade Center

Plenary Speech

Time	June 24 (Wednesday)	
	China Hall 2	
11:40~12:20	PL	Jun Ni (The University of Michigan, USA) Future Global Sustainable Manufacturing <i>Chair : Dae-Eun Kim</i>

Keynote Speech

Time	June 24 (Wednesday)
10:40~11:10	Keynote Speech 1 (Room #1) <i>Chair: Daehie Hong</i>
	KS001 Ming Wang Fu (The Hong Kong Polytechnic University, Hong Kong) Micro-scaled Product Development via Micro-Scaled Plastic Deformation
	Keynote Speech 2 (Room #2) <i>Chair: Kyun-Hee Park</i>
	KS002 Hon-Zong Choi (Korea Institute of Industrial Technology, Korea) Paperless Online Collaboration System for SMEs
	Keynote Speech 3 (Room #3) <i>Chair: Keun Park</i>
	KS003 Simon S. Park (University of Calgary, Canada) Polymeric Carbon Nanocomposite Based Sensor Networks
15:30~16:00	Keynote Speech 4 (Room #4) <i>Chair: Seung-Han yang</i>
	KS004 Sungho Jeong (Gwangju Institute of Science and Technology, Korea) Laser-Induced Breakdown Spectroscopy for Fast and Quantitative Monitoring of Product Chemistry during Manufacturing
	Keynote Speech 5 (Room #1) <i>Chair: Seong-Wook Hong</i>
	KS005 Choon-Man Lee (Changwon National University, Korea) A New Conceptual Three-Dimensional Laser Assisted Milling System
15:30~16:00	Keynote Speech 6 (Room #3) <i>Chair: Jitendra Pandey</i>
	KS006 Shijie Liu (State University of New York, USA) Biodegradable and Recyclable Bioplastics PHA and Its Production from Woody Biomass

Keynote Speech

Time	June 25 (Thursday)
15:30~16:00	Keynote Speech 7 (Room #1) <i>Chair: Yong Tae Park</i>
	KS007 Seong Jin Park (POSTECH, Korea) Current Research Activities and Future of Powder Injection Molding
	Keynote Speech 8 (Room #2) <i>Chair: Suk Won Cha</i>
	KS008 Mitsutaka Matsumoto (National Institute of Advanced Industrial Science and Technology, Japan) Product Remanufacturing as an Enabler for Sustainable Manufacturing
	Keynote Speech 9 (Room #3) <i>Chair: Suk Won Cha</i>
	KS009 Kai Cheng (Brunel University, UK) Multi-scale Sustainable Manufacturing: an Engineering-oriented Approach and its Implementation Perspectives
	Keynote Speech 10 (Room #10) <i>Chair: Chih-Hsing Chu</i>
	KS010 Gül E. Kremer (Pennsylvania State University, USA) Economic and Environmental Sustainability across Product Supply Chains

Invited Speech

Time	June 24 (Wednesday)
13:30~13:50	Invited Speech 1 (Room #1)
	IS001 Denni Kurniawan (Universiti Teknologi Malaysia, Malaysia) Severe Plastic Deformation for Grain Refinement of Zn Alloy
	Invited Speech 2 (Room #2)
	IS002 Suk Won Cha (Seoul National University, Korea) Physical Vapor Deposition and Atomic Layer Deposition Technique for Solid Oxide Fuel Cells
	Invited Speech 3 (Room #3)
	IS003 Young-Bin Park (UNIST, Korea) Carbon Nanomaterials and Nanocomposites for Smart Applications
	Invited Speech 4 (Room #4)
	IS004 Chih-Hsing Chu (National Tsing Hua University, Taiwan) Integrating Product and Supply Chain Design for Sustainable Product Development

Time	June 25 (Thursday)
17:40~18:00	Invited Speech 5 (Room #1)
	IS005 Bo Hyun Kim (Soongsil University, Korea) Micro Structuring of Glass by Non-Traditional Machining Processes
	Invited Speech 6 (Room #2)
	IS006 Seung Hwan Ko (Seoul National University, Korea) Nanomaterial based Flexible/Stretchable Electronics Fabrication Process
	Invited Speech 7 (Room #3)
	IS007 Hak-Sung Kim (Hanyang University, Korea) Nanotech Based Flash Light Sintering Technology and its Application for Printed Electronics
	Invited Speech 8 (Room #4)
	IS008 Chong Wen Tong (University of Malaya, Malaysia) The Green Design and Application of a Hybrid Wind-Solar Energy Powered Outdoor Lighting and Charging System

Authors Index

Name No of paper Date Time Place

Guest Speakers

Ni Jun	PL001	24(Wed)	11:40	Chin Hall2
Fu Ming Wang	KS001	24(Wed)	10:40	Rm1
Choi Hon-Zong	KS002	24(Wed)	10:40	Rm2
Park Simon	KS003	24(Wed)	10:40	Rm3
Jeong Sungho	KS004	24(Wed)	10:40	Rm4
Lee Choon-Man	KS005	24(Wed)	15:30	Rm1
Liu Shijie	KS006	24(Wed)	15:30	Rm3
Park Seong Jin	KS007	25(Thu)	15:30	Rm1
Matsumoto Mitsutaka	KS008	25(Thu)	15:30	Rm2
Cheng Kai	KS009	25(Thu)	15:30	Rm3
Kremer Gül E.	KS010	25(Thu)	15:30	Rm4
Kurniawan Denni	IS001	24(Wed)	13:30	Rm1
Cha Sukwon	IS002	24(Wed)	13:30	Rm2
Park Young-Bin	IS003	24(Wed)	13:30	Rm3
Chu Chih-Hsing	IS004	24(Wed)	13:30	Rm4
Kim Bo Hyun	IS005	25(Thu)	17:40	Rm1
Ko Seung Hwan	IS006	25(Thu)	17:40	Rm2
Kim Hak-Sung	IS007	25(Thu)	17:40	Rm3
Tong Chong Wen	IS008	25(Thu)	17:40	Rm4

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Abdul-Rashid Salwa Hanim	OP091 / 138	25(Thu)	13:30	Rm4
Abidov Amir	OP131 / 040	26(Fri)	9:00	Rm2
Abidov Amir	PP154 / 192	25(Thu)	10:50	ChinaHall2
Adhikari Kishor	PP172 / 218	25(Thu)	10:50	ChinaHall2
Adhikari Kishor Kumar	OP009 / 119	24(Wed)	9:00	Rm2
Ahn Dae-Cheol	PP144 / 148	25(Thu)	10:50	ChinaHall2
Ahn Dong-Gyu	OP079 / 370	25(Thu)	13:30	Rm2
	PP002 / 285	25(Thu)	9:00	ChinaHall2
Ahn Eun-Yeong	OP052 / 021	24(Wed)	16:10	Rm1
	OP053 / 022	24(Wed)	16:10	Rm1
Ahn Heera Christine	PP220 / 569	25(Thu)	10:50	ChinaHall2
Ahn Jong-Wook	OP003 / 188	24(Wed)	9:00	Rm1
	PP064 / 485	25(Thu)	9:00	ChinaHall2
Ahn Moo-Jong	PP153 / 072	25(Thu)	10:50	ChinaHall2
Ahn Seokyoung	OP057 / 380	24(Wed)	16:10	Rm2
	OP107 / 344	25(Thu)	16:10	Rm2

Ahn Sung-Hoon	OP054 / 445	24(Wed)	16:10	Rm1
	OP065 / 146	24(Wed)	16:10	Rm3
	OP066 / 190	24(Wed)	16:10	Rm3
	OP112 / 402	25(Thu)	16:10	Rm3
	PP010 / 476	25(Thu)	9:00	ChinaHall2
	PP023 / 182	25(Thu)	9:00	ChinaHall2
	PP024 / 187	25(Thu)	9:00	ChinaHall2
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	PP026 / 337	25(Thu)	9:00	ChinaHall2
	PP027 / 442	25(Thu)	9:00	ChinaHall2
	PP028 / 465	25(Thu)	9:00	ChinaHall2
	PP029 / 466	25(Thu)	9:00	ChinaHall2
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	PP164 / 525	25(Thu)	10:50	ChinaHall2
	PP167 / 570	25(Thu)	10:50	ChinaHall2
	PP206 / 575	25(Thu)	10:50	ChinaHall2
	PP220 / 569	25(Thu)	10:50	ChinaHall2
Ali Haider	PP001 / 356	25(Thu)	9:00	ChinaHall2
An Byungchul	OP084 / 576	25(Thu)	13:30	Rm2
An Jihwan	OP043 / 005	24(Wed)	13:30	Rm4
AN Myeong-Bok	PP122 / 444	25(Thu)	10:50	ChinaHall2
Ayub Nor Syakirah	OP091 / 138	25(Thu)	13:30	Rm4
Azahari Haryani	PP096 / 523	25(Thu)	9:00	ChinaHall2

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	PP152 / 314	25(Thu)	10:50	ChinaHall2
Bae Ho-Jin	OP032 / 250	24(Wed)	13:30	Rm2
Bae Jangho	PP198 / 557	25(Thu)	10:50	ChinaHall2
Bae Ji-hoon	OP081 / 300	25(Thu)	13:30	Rm2
Bae Jiwoong	PP214 / 327	25(Thu)	10:50	ChinaHall2
	PP215 / 333	25(Thu)	10:50	ChinaHall2
Bae Myung-Whan	PP104 / 153	25(Thu)	9:00	ChinaHall2
Bae Sungwoo	PP044 / 057	25(Thu)	9:00	ChinaHall2
	PP176 / 058	25(Thu)	10:50	ChinaHall2
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Baek Seung Wook	OP024 / 173	24(Wed)	9:00	Rm4
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Bang Heesun	PP048 / 418	25(Thu)	9:00	ChinaHall2
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Bao Li	OP061 / 496	24(Wed)	16:10	Rm3
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Baye Misganaw Abebe	PP059 / 095	25(Thu)	9:00	ChinaHall2
Bea Yonghwan	OP127 / 305	26(Fri)	9:00	Rm2
Bevilacqua Carmelina	OP092 / 155	25(Thu)	13:30	Rm4
Bhatia Divij	OP046 / 357	24(Wed)	13:30	Rm4

Bhattachan Anuj	PP028 / 465	25(Thu)	9:00	ChinaHall2	Chiu Pi-Lien	OP097 / 071	25(Thu)	13:30	Rm4
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Bhandari Pratibha	PP220 / 569	25(Thu)	10:50	ChinaHall2	Cho Handong	PP155 / 206	25(Thu)	10:50	ChinaHall2
Byun Changho	OP068 / 144	24(Wed)	16:10	Rm4	Cho Jeong-Gil	PP190 / 244	25(Thu)	10:50	ChinaHall2
Byun Jungin	OP150 / 086	26(Fri)	10:30	Rm3	Cho JongRae	OP081 / 300	25(Thu)	13:30	Rm2
	OP151 / 125	26(Fri)	10:30	Rm3		OP123 / 321	26(Fri)	9:00	Rm1
	OP152 / 137	26(Fri)	10:30	Rm3	Cho Jung-Woo	PP091 / 323	25(Thu)	9:00	ChinaHall2
	PP101 / 085	25(Thu)	9:00	ChinaHall2		PP006 / 194	25(Thu)	9:00	ChinaHall2
						PP007 / 195	25(Thu)	9:00	ChinaHall2
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					Cho Jun Haeng	OP076 / 074	25(Thu)	13:30	Rm1
					Cho Kyu-Jin	OP038 / 330	24(Wed)	13:30	Rm3
						OP039 / 339	24(Wed)	13:30	Rm3
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					Cho Min-Gi	PP034 / 061	25(Thu)	9:00	ChinaHall2
					Cho Seong Wook	OP031 / 093	24(Wed)	13:30	Rm2
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					Cho Sung-Hyun	PP220 / 569	25(Thu)	10:50	ChinaHall2
					Cho YongHyun	PP119 / 210	25(Thu)	10:50	ChinaHall2
					Cho Yong-Jae	PP007 / 195	25(Thu)	9:00	ChinaHall2
						PP014 / 346	25(Thu)	9:00	ChinaHall2
						PP069 / 073	25(Thu)	9:00	ChinaHall2
					Cho Young Tae	PP015 / 277	25(Thu)	9:00	ChinaHall2
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					Cho Yun Hyun	OP022 / 212	24(Wed)	9:00	Rm4
						OP023 / 213	24(Wed)	9:00	Rm4
					Choi Byung-Woon	PP034 / 061	25(Thu)	9:00	ChinaHall2
					Choi Chi-Hyuk	PP065 / 282	25(Thu)	9:00	ChinaHall2
					Choi Dahyun	OP112 / 402	25(Thu)	16:10	Rm3
					Choi Dong-Ho	OP143 / 286	26(Fri)	10:30	Rm2
					Choi Dukhyun	OP019 / 315	24(Wed)	9:00	Rm4
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					Choi Hee-Young	PP085 / 232	25(Thu)	9:00	ChinaHall2
						PP212 / 231	25(Thu)	10:50	ChinaHall2
					Choi Hon-Zong	OP139 / 245	26(Fri)	10:30	Rm1
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					Choi Hyeung-Sik	OP142 / 280	26(Fri)	10:30	Rm2
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					Choi Hyoung Jin	OP086 / 087	25(Thu)	13:30	Rm3
					Choi Hyunjin	PP005 / 271	25(Thu)	9:00	ChinaHall2
					Choi Jaegu	PP100 / 069	25(Thu)	9:00	ChinaHall2
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					Choi Jae-Won	OP130 / 395	26(Fri)	9:00	Rm2
					Choi Jin-Young	OP123 / 321	26(Fri)	9:00	Rm1
					Choi Jongdai	OP145 / 060	26(Fri)	10:30	Rm2
					Choi Jung-Oh	OP054 / 445	24(Wed)	16:10	Rm1
					Choi Jun-Ki	OP096 / 233	25(Thu)	13:30	Rm4

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Chae Ki Woon	PP040 / 503	25(Thu)	9:00	ChinaHall2					
Chae Soo-Won	PP038 / 491	25(Thu)	9:00	ChinaHall2					
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Chen Hom	OP083 / 243	25(Thu)	13:30	Rm2					
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Cheng Ken-Chuan	PP039 / 410	25(Thu)	9:00	ChinaHall2					
Chien Cheng-Chin	PP039 / 410	25(Thu)	9:00	ChinaHall2					
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Hung Jung-Chou	PP057 / 172	25(Thu)	9:00	ChinaHall2		PP015 / 277	25(Thu)	9:00	ChinaHall2
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Hwang Bo Kyung	PP119 / 210	25(Thu)	10:50	ChinaHall2		PP017 / 306	25(Thu)	9:00	ChinaHall2
Hwang Seongguk	PP150 / 235	25(Thu)	10:50	ChinaHall2		PP033 / 417	25(Thu)	9:00	ChinaHall2
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						PP107 / 246	25(Thu)	9:00	ChinaHall2
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Kang Ki-Weon	PP192 / 473	25(Thu)	10:50	ChinaHall2	Kim Dongbum	PP111 / 527	25(Thu)	10:50	ChinaHall2
Kang Kyung Min	PP011 / 181	25(Thu)	9:00	ChinaHall2	Kim Dongearn	PP013 / 275	25(Thu)	9:00	ChinaHall2
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Kang Su-Hee	PP220 / 569	25(Thu)	10:50	ChinaHall2	Kim Dong-Yun	OP103 / 388	25(Thu)	16:10	Rm1
Kang Yujin	PP173 / 252	25(Thu)	10:50	ChinaHall2	Kim Doyeon	OP007 / 354	24(Wed)	9:00	Rm2
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	PP067 / 467	25(Thu)	9:00	ChinaHall2		PP111 / 527	25(Thu)	10:50	ChinaHall2
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Lee Dae-Young	OP038 / 330	24(Wed)	13:30	Rm3		PP017 / 306	25(Thu)	9:00	ChinaHall2
Lee Deugwoo	OP028 / 035	24(Wed)	13:30	Rm1	Lee Jae Hyun	PP140 / 313	25(Thu)	10:50	ChinaHall2
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Lee Dohaeng	PP214 / 327	25(Thu)	10:50	ChinaHall2	Lee Jae-hyun	PP142 / 312	25(Thu)	10:50	ChinaHall2
Lee Dong Gyu	PP202 / 032	25(Thu)	10:50	ChinaHall2	Lee Jaejoon	PP075 / 434	25(Thu)	9:00	ChinaHall2
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	PP222 / 301	25(Thu)	10:50	ChinaHall2		PP006 / 194	25(Thu)	9:00	ChinaHall2
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Lee Gyo Woo	PP078 / 289	25(Thu)	9:00	ChinaHall2		PP220 / 569	25(Thu)	10:50	ChinaHall2
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Lee Jin Kyung	PP152 / 314	25(Thu)	10:50	ChinaHall2	Lee Sang Won	PP128 / 136	25(Thu)	10:50	ChinaHall2
Lee Jin Wook	PP085 / 232	25(Thu)	9:00	ChinaHall2	Lee Sang-Bae	OP079 / 370	25(Thu)	13:30	Rm2
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Yang Lining	PP032 / 555	25(Thu)	9:00	ChinaHall2
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