

Room Allocation for APMA 2017 Technical Sessions

April 10, 2017	Time	Grand Ballroom (3F, East Wing) 宴會廳(東館)	Plum Blossom Room (3F, East Wing) 梅花廳(東館)	Tung Blossom Room (3F, East Wing) 桐花廳(東館)	Lily Room (3F, East Wing) 百合廳(東館)	Honest Room (4F, East Wing) 信實廳(東館)	Truth Room (4F, East Wing) 真理廳(東館)	Jasmine Room (3F, West Wing) 茉莉廳(西館)
	09:00-09:30	Country Report (Grand Ballroom)						
	09:30-10:40	Country Report (Grand Ballroom)						
	10:50-12:10	Plenary Lecture (Grand Ballroom)						
	12:10-13:30	Lunch Break						
	13:30-15:30	Cross-strait PM Conference (in Chinese)	Symposium B	Symposium E	Symposium G	Symposium A	Symposium C	
	15:50-17:50						MIM, Special Interest Program (host by Prof. K.S.Hwang)	

April 11, 2017	Time	Grand Ballroom (3F, East Wing) 宴會廳(東館)	Plum Blossom Room (3F, East Wing) 梅花廳(東館)	Tung Blossom Room (3F, East Wing) 桐花廳(東館)	Lily Room (3F, East Wing) 百合廳(東館)	Honest Room (4F, East Wing) 信實廳(東館)	Truth Room (4F, East Wing) 真理廳(東館)	Jasmine Room (3F, West Wing) 茉莉廳(西館)
	08:30-09:30	Plenary talks (Grand Ballroom)						
	09:40-10:40	Cross-strait PM Conference (in Chinese)	Symposium B	Symposium E	Symposium G	Symposium A	Symposium F	
	10:50-12:10			Symposium C				
	12:10-13:30	Lunch Break						
	13:30-15:30	Preparation	Symposium B	Symposium C	Symposium G	Symposium A	Symposium F	Symposium D
	15:50-17:50				Powder, Special Interest Program (host by Höganäs AB)			
	18:00-21:00	Conference Banquet						

Symposium A: High Performance PM Processing and Applications
 Symposium B: PM Materials
 Symposium C: Powder Injection Molding
 Symposium D: Refractory Metals and Hard Materials

Symposium E: Electronic and Magnetic Materials
 Symposium F: Green Energy Materials and Devices (SOFC/Li Battery)
 Symposium G: Additive Manufacturing (3D Printing)

APMA 2017 Program for Technical Sessions

Symposium A: High Performance PM Processing and Applications

Organizer: Prof. Chaohsu CHENG, Chung Chou University of Science and Technology

Monday, April 10, 2017

Honest Room (4F, East Wing) 信實廳(東館)

Chairs: Dr. S.F.Chen, Porite Taiwan Co. Ltd. (Taiwan)

Dr. Michael Andersson, Höganäs AB (Sweden)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A01 0256	13:30~13:55	Katsuyoshi Kondoh Osaka University, Japan	PM Titanium Alloys with High Strength and Ductility by Using Ubiquitous Elements and Phase Transformation (Invited)
A02 0106	13:55~14:15	Yung-Chin Yang National Taipei University of Technology, Taiwan	Studies of the Compositions and Characteristics of the Sintered Ti-Ni-Mo alloy
A03 0109	14:15~14:35	W. P. Huang Porite Taiwan Co. Ltd., Taiwan	Effect of Sintering Time on Mechanical Properties of Al-Cu-Mg-Si Alloy
A04 0249	14:35~14:55	Dimitris Chasoglou Höganäs AB, Sweden	Sinter Hardening Material Solutions for High Performance Applications
A05 0212	14:55~15:15	Fran Hanejko / Peter Sokolowski Hoeganaes, China	Benefits of Warm Die Compacting with Ancormax 225: Industrial Experiences
A06 0213	15:15~15:35	Fran Hanejko / Peter Sokolowski Hoeganaes, China	Dimensional Precision of Fe-Cu-C Premixes
	15:35~15:50		Coffee break

Chairs: Prof. Yung-Chin Yang, National Taipei University of Technology (Taiwan)

Dr. Ola Bergman, Höganäs AB (Sweden)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A07 0084	15:50~16:10	Ray Guo Rio Tinto Iron & Titanium (Suzhou) Co. Ltd., China	High Density Lubricant Systems for Warm and Cold Compaction
A08 0210	16:10~16:30	Mats Larsson Höganäs AB, Sweden	Efficient Lubricants for Production of High Density PM Components

A09 0066	16:30~16:50	Seong Jin Park Pohang University of Science and Technology, Korea	Material Informatics Using Experiments and Simulations in Powder Metallurgy
A10 0254	16:50~17:10	Henning Zoz Zoz GmbH, Germany	Limited Resources at Unlimited Capabilities - HKP Nanomaterials/Nanostructures in Clean- Green- and Hightech
A11 0005	17:10~17:30	Hyoung Seop Kim Pohang University of Science and Technology, Korea	Shock Consolidation of Ultrafine Grained Copper Powders
A12 0042	17:30~17:50	A. Jingu Kansai University Graduate School, Japan	Strength and Friction Properties of Sulfide Bronze Sintered under Vacuum Conditions -Influence of Tin and Bronze as Additive

Tuesday, April 11, 2017

Honest Room (4F, East Wing) 信實廳(東館)

Chair: Mr. Leo Fan, Hoganäs Taiwan Ltd. (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A13 0006	09:40-10:00	Nobuaki Akagi Kobe Steel, Ltd., Japan	Machinability Improvement of High Strength Alloy Steel by Admixed Complex Calcium Oxide Powder
A14 0061	10:00-10:20	Roland Warzel Iii North American Hoganäs, USA	Production Case Studies on the Machinability of Powder Metal (PM) Steels
A15 0211	10:20-10:40	Bruce Lindsley / Peter Sokolowski Hoganaes, China	Machinability of Fe-Cu-C and Diffusion Alloyed Steels: Comparison of Additives
	10:40~10:50	break	

Chair: Prof. Hyoung Seop Kim, Pohang University of Science and Technology (Korea)

Mr. Ulf Engström, Höganäs (China) Co.,Ltd. (China)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A16 0255	10:50-11:10	Henning Zoz Zoz GmbH, Germany	HKP as a PM-process Utilized for Environmental Applications in Mechano-Chemistry
A17 0030	11:10~11:30	Eric Prommer DORST Technologies, Germany	New Developments in Servo-Electrical Presses
A18 0115	11:30~11:50	Ingo Cremer Arlon Co., Ltd., Germany	HIP – a Partner for MIM, SLS and AM Innovation in Hot Isostatic Presses HIP for Compacted Components
A19 0121	11:50~12:10	Anna Medvedeva Uddeholms AB, Sweden	A New Cold Work PM-Grade Combining High Wear Resistance with High Ductility

A20 0233	12:10~12:30	Ding-Shiang Wang Industrial Technology Research Institute, Taiwan	High Performance and Long Lifetime Metal Molds Coating Process Research
	12:10~13:30	Lunch break	

Chairs: Prof. Katsuyoshi Kondoh, Osaka University (Japan)

Dr. Ray Guo, Rio Tinto Iron & Titanium (Suzhou) Co. Ltd. (China)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A21 0038	13:30~13:50	Seong Jin Park Pohang University of Science and Technology, Korea	Physics of Pressure Transmission in Powders
A22 0105	13:50~14:10	Y.Taniguchi National Institute of Technology, Nara College, Japan	Mechanism of Powder Assisted Deep Drawing of Ti Thin Sheet to Fabricate Small Capsule Implant
A23 0263	14:10~14:30	Hideyoshi Shiratori Porite Corporation, Japan	Development of Die Lubricating Oil and Coating System for Powder Metallurgy
A24 0138	14:30~14:50	Naoto Igarashi JPMA, Japan	VVT Parts Manufacturing-Line Which Realized the Simultaneous Green Machining of Holes and Grooves, Attaching 2D Bar Code
A25 0192	14:50~15:10	Anders Flodin / Michael Andersson Höganäs AB, Sweden	Wear Investigation of Finish Rolled Powder Metal Gears
A26 0247	15:10~15:30	Biao Yan Tongji University, China	Effects of Temperature on Surface Densification of Fe- based P/M Gears
	15:30~15:50	Coffee break	

Chairs: Dr. Dimitris Chasoglou, Höganäs AB (Sweden)

Mr. Roland Warzel III, North American Hoganas (USA)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
A27 0140	15:50~16:10	Kenichi Saito JPMA, Japan	Development of the Multistage Complicated Shape Side Plate, Laser Quenched on the Non-Consecutive Surface
A28 0245	16:10~16:30	Ola Bergman Höganäs AB, Sweden	Properties of Cr-alloyed PM Steel after Different Sintering and Heat Treatment Operations
A29 0011	16:30~16:50	Chongxi Bao NBTM New Materials Group Co., Ltd., China	Sintering Distortion: Type, Mechanism and Controlling

A30 0257	16:50~17:10	Ulf Engström Höganäs (China) Co., Ltd., China	Mix Concept Engineered for High Precision VVT Components
A31 0153	17:10~17:30	Shinobu Aso Porite Corporation, Japan	Sintered Bearing with Dimples on Inner Diameter for High Efficiency Motor
A32 0268	17:30~17:50	Daisuke Shibata Porite Corporation, Japan	Sintered Oil-Impregnated Bearing for Battery Cooling Fan Motor Applied to Hybrid Electric Vehicle and Electric Vehicle
	18:00~ 21:00	Conference Banquet (Grand Ballroom)	

APMA 2017 Program for Technical Sessions

Symposium B: PM Materials

Organizer: Prof. Pee-Yew LEE, National Taiwan Ocean University

Monday, April 10, 2017

Plum Blossom Room (3F, East Wing) 梅花廳(東館)

Chair: Dr. Henning Zoz, Zoz GmbH (Germany)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B01 0216	13:30~13:55	Kei Ameyama Ritsumeikan University, Japan	The Role of UFG-Shell Network for High Performance Mechanical Properties in Harmonic Structure Materials (Invited)
B02 0012	13:55~14:15	Chongxi Bao NBTM New Materials Group Co., Ltd., China	Effect of Copper Addition Method on Microstructure and Mechanical Properties of Sintered Steel
B03 0016	14:15~14:35	Songlin Li Central South University, China	Effect of Novel Mn Source on Microstructure and Property of Fe-1Mn-0.5C Low-Alloy Steel by Sintering
B04 0072	14:35~14:55	Jai-Sung Lee Hanyang University, Korea	Compaction and Sintering of Tri-Modal Typed Fe Micro-Nano Powder
B05 0078	14:55~15:15	Sangsun Yang Korea Institute of Materials Science, Korea	Newly Designed Multi-Stage Gas Atomization Process to Prepare Fine Metal Powders
B06 0124	15:15~15:35	W. P. Huang Porite Taiwan Co. Ltd., Taiwan	Effect of Iron Content on Oxidation Behavior in Fe-Cr Alloy at 1273 K
	15:35~15:50		Coffee break

Chairs: Prof. Pee-Yew Lee, National Taiwan Ocean University (Taiwan)

Mr. N. Gopinath, Fluidtherm Technology (India)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B07 0149	15:50~16:10	Xin Lu University of Science and Technology Beijing, China	Particle Characteristics and Densification of W6Mo5Cr4V2Co5Nb High Speed Steel Overspray Powder NO SHOW
B08 0283	16:10~16:30	Michael Andersson Höganäs AB, Sweden	Fatigue of Heat Treated PM Steels – A Fracture Mechanics Approach

B09 0184	16:30~16:50	Julie Campbell Tremblay Rio Tinto Metal Powders, Canada	Development of a Prototype Diffusion Bonded Copper Powder
B10 0206	16:50~17:10	N. Gopinath Fluidtherm Technology, India	Continuous Case Hardening of PM Gears with Low Pressure Gas Quenching
B11 0207	17:10~17:30	N. Gopinath Fluidtherm Technology, India	A New Post-Sintering Process to Improve the Mechanical Properties of PM Parts by Gas Alloying
B12 0208	17:30~17:50	N. Gopinath Fluidtherm Technology, India	Low Temperature Pusher Furnaces for Steam Treatment and Aluminium Sintering

Tuesday, April 11, 2017

Plum Blossom Room (3F, East Wing) 梅花廳(東館)

Chair: Dr. Ho-Yen Hsieh, Plus Metal Tech Co., Ltd. (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B13 0261	09:40-10:00	Young Do Kim Hanyang University, Korea	Analysis of Y ₂ O ₃ Decomposition Behavior During Mechanical Alloying in Fe-based Oxide Dispersion Strengthened Alloy
B14 0225	10:00-10:20	Zhaoqiang Tan Hoganas China Co. Ltd, China	High Performance Mixes with New Lubricants
B15 0253	10:20-10:40	Henning Zoz Zoz GmbH, Germany	High Performance Zinc Flake Pigments for Anti-Corrosive Coatings Manufactured by HKP/Powder Metallurgy Process
	10:40~10:50	break	

Chair: Dr. A. Zoz, Zoz GmbH (Germany)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B16 0131	10:50~11:10	Zou Liming Guangdong Materials and Processing Institute, China	Microstructure and Properties of High Temperature Ti Alloy with High Si Content by Powder Metallurgy
B17 0180	11:10~11:30	Tong Jian-Bo University of Science and Technology Beijing, China	Molten Salt Synthesis of Micro-fine TiAl Alloy Powders NO SHOW
B18 0271	11:30~11:50	Hyunjoo Choi School of Advanced Materials and Engineering, Korea	Influence of the Morphology of Nano-Carbon Materials on Microstructural Evolution of Copper Matrix Composites at High Temperatures

B19 0018	11:50~12:10	Chao Yang South China University of Technology, China	Semi-Solid Sintering: a Novel Processing Approach for Bimodal Titanium Alloys NO SHOW
B20 0013	12:10~12:30	Peizhong Feng China University of Mining and Technology, China	High Porosity of FeAl Intermetallic Foam Prepared by Thermal Explosion Reaction NO SHOW
	12:30~13:30	Lunch break	

Chairs: Prof. Kei Ameyama, Ritsumeikan University (Japan)

Dr. Tai-Nan Lin, Institute of Nuclear Energy Research (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B21 0250	13:30~13:50	Andreas Franz Zoz GmbH, Germany	From RT-Hydride Hydrolium®/H ₂ Tank2Go® to B4S- SM/MM Reactive Hydride Composite LiBH ₄ +MgH ₂ Made by HKP/Powder Metallurgy Process
B22 0053	13:50~14:10	L. Zhao Central Iron and Steel Research Institute, China	Influence of Cr ₃ C ₂ Contents on Microstructure and Wear Behaviours of Cr ₃ C ₂ /Ni ₃ Al Composites
B23 0101	14:10~14:30	Shaojun Liu Central South University, China	Microstructure and Properties of Al₂O₃-Dispersion- Strengthened Copper in-situ Fabricated by Spark Plasma Sintering NO SHOW
B24 0133	14:30~14:50	Mao Wu University of Science and Technology Beijing, China	Wetting Mechanism of Metal Liquid on Rough Surfaces
B25 0165	14:50~15:10	Z.Y. Ma Institute of Metal Research, Chinese Academy of Sciences, China	Enhanced Ductility of Carbon Nanotube Reinforced Al Composites with Hierarchical Structure
B26 0177	15:10~15:30	B.L. Xiao Institute of Metal Research, Chinese Academy of Sciences, China	Fabrication of High Strength Nano Al ₂ O ₃ Reinforced Pure Al Composite by High Energy Milling
	15:30~15:50	Coffee break	

Chair: Prof. Jai-Sung Lee, Hanyang University (Korea)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
B27 0231	15:50~16:10	Biao Yan Tongji University, China	Mechanism of Interfacial Structure of Al/Zn Layered Composite Materials

B28 0252	16:10~16:30	Alexander Zoz Zoz GmbH, Germany	Zentallium® - the Al-CNT Nano-Composite for High-Performance Light Weight Applications
B29 0020	16:30~16:50	Kun Yu Central South University, China	Improvement of the Mechanical Properties and Corrosion Resistance of Biodegradable β - $\text{Ca}_3(\text{PO}_4)_2/\text{Mg-Zn}$ Composites Prepared by Powder Metallurgy
B30 0145	16:50~17:10	Lu Xin University of Science and Technology Beijing, China	Powder Metallurgy Porous Ti-10Mo Alloy for Orthopedic Applications: Structure Characterization, Mechanical Properties, Vitro Cytotoxicity and Vivo Osteointegration NO SHOW
B31 0160	17:10~17:30	Kyung Tae Kim Korea Institute of Materials Science, Korea	Synthesis and Surface-Coated Fine Aluminum Powders for Energetic Applications
	18:00~ 21:00	Conference Banquet (Grand Ballroom) 宴會廳	

APMA 2017 Program for Technical Sessions

Symposium C: Powder Injection Molding

Organizer: Prof. Kuen-Shyang HWANG, National Taiwan University

Monday, April 10, 2017

Truth Room (4F, East Wing) 真理廳(東館)

Chairs: Prof. Hideshi Miura, Kyushu University (Japan)

Prof. S. J. Park, Pohang University of Science and Technology (Korea)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
C01 0060	13:30~13:55	Jai-Sung Lee Hanyang University, Korea	Advances in Powder Injection Molding of Tri-modal Type Iron Micro-Nano Powder (Invited)
C02 0197	13:55~14:15	Yang Yu R&D Center of Xiamen Tungsten Co. LTD (XTC), China	Metal Injection Molding of Tungsten and its Alloys
C03 0139	14:15~14:35	Yang-Liang Fan Tawian Powder Technologies Co., Ltd., Taiwan	Evolution of Interconnected Pore Channels in the Wax-Based and POM-Based MIM Specimens During Debinding
C04 0281	14:35~14:55	Anchalee Manonukul National Science and Technology Development Agency, Thailand	Mechanical Properties of 316L/630 Stainless Steel Co-Metal Injection Moulding
C05 0113	14:55~15:15	S.F. Chen Porite Taiwan Co. Ltd., Taiwan	The Study on Mechanical Properties of Inconel 713LC Formed by Metal Injection Molding
C06 0117	15:15~15:35	Norhamidi Muhamad Universiti Kebangsaan Malaysia, Malaysia	Effect of Annealing Time on the Strength and Hardness of Metal Injection Molded CoCrMo
	15:35~15:50		Coffee break

Symposium C: Powder Injection Molding

MIM, Special Interest Program

In the first half of this Special Interest Program, the MIM status, interesting case studies, advanced processes, and unique companies in different regions will be reported by industry and academic experts. Following these reports, there will be time for open discussion among the attendees and speakers on everything related to MIM.

Monday, April 10, 2017

Truth Room (4F, East Wing) 真理廳(東館)

Host: Prof. Kuen-Shyang Hwang, National Taiwan University (Taiwan)

Program	Time	Region / Panelist	Affiliation
Regional Overview	15:50~17:00	China Dr. Yau Hung Chiou	President, PIMA-China
		Europe Dr. Paul A. Davies	Sandvik Osprey Ltd. UK
		Japan Dr. Hideki Nakayama	Castem Co. Ltd, Japan
		Korea Prof. Seong Jin Park	Pohang University of Science and Technology, Korea
		Singapore Mr. Chee Hoo Liang	Advanced Materials Technologies Pte Ltd, Singapore
		Taiwan Prof. Kuen-Shyang Hwang	National Taiwan University, Taiwan
Discussion	17:00~17:50	Panel Discussion, Q&A	

Symposium C: Powder Injection Molding

Organizer: Prof. Kuen-Shyang HWANG, National Taiwan University

Tuesday, April 11, 2017

Tung Blossom Room(3F, East Wing) 桐花廳(東館)

Chair: Prof. K. S. Hwang, National Taiwan University (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
C07 0094	10:50-11:10	Seong Jin Park Pohang University of Science and Technology, Korea	Study for Metal-Ceramic Bonded Part Fabricated Using Powder Injection Molding
C08 0008	11:10~11:30	Abu Bakar Sulong Universiti Kebangsaan Malaysia, Malaysia	Processing of Ti6Al4V/Wollastonite Composite Through Powder Injection Molding Process
C09 0063	11:30~11:50	Shu-Hsu Hsieh UNEEC, Taiwan	Optimization of the Thermal Debinding Profile in Metal Injection Molding
C10 0110	11:50~12:10	Abu Bakar Sulong Universiti Kebangsaan Malaysia, Malaysia	Processing of Bi-Material (Zirconia-Stainless Steel) Via Two Component Powder Injection Molding

Chairs: Dr. Yang Yu, R&D Center of Xiamen Tungsten Co. LTD (XTC) (China)

Mr. Kevin Shen, Chenming Mold Ind. Corp. (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
C11 0188	13:30~13:50	Haiqing Yin University of Science and Technology Beijing, China	Investigation of Inhomogeneity in Powder Injection Molding of Zirconia Dental Ceramic
C12 0022	13:50~14:10	Huan-Chang Tseng CoreTech System (Moldex3D) Co., Ltd., Taiwan	Simulation of Surface Defects in Metal Injection Molding
C13 0097	14:10~14:30	Wen-Tzong Lee National Pingtung University of Science and Technology, Taiwan	Crack Detection for Metal Injection Molded Parts
C14 0090	14:30~14:50	Seong Jin Park Pohang University of Science and Technology, Korea	Fabrication of Micro-Pattern Structure Using Powder Injection Molding Process with Metallic Mold via LIGA

C15 0089	14:50~15:10	Larry Lin Amulaire Thermal Technology, Taiwan	Forming innovative IGBT cold plate design by MIM
C16 0092	15:10~15:30	Seong Jin Park Pohang University of Science and Technology, Korea	Powder Injection Molded Thin-Walled Structure for Heat Dissipation
	15:30~15:50	Coffee break	

Chair: Dr. Anchalee Manonukul, National Science and Technology Development Agency (Thailand)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
C17 0127	15:50~16:10	Muhammad Hayat University of Auckland, New Zealand	Modified PEG/PMMA Binder System for Ti-MIM
C18 0194	16:10~16:30	Po Han Chen Union Precision Hardware Co., Ltd., Taiwan	MIM Intelligent Wearable Material Optimization
C19 0269	16:30~16:50	Bor Yuan Chen BASF Taiwan Ltd., Taiwan	Catamold® Solution on Challenging Applications
C20 0032	16:50~17:10	Seong Jin Park Pohang University of Science and Technology, Korea	Analysis of the Homogeneity and Rheological Behavior of Nano/Micro Bimodal Feedstock
	18:00~ 21:00	Conference Banquet (Grand Ballroom 宴會廳)	

APMA 2017 Program for Technical Sessions

Symposium D: Refractory Metals and Hard Materials

Organizer: Prof. Shih-Hsien CHANG, National Taipei University of Technology

Tuesday, April 11, 2017

Jasmine Room (3F, West Wing) 茉莉廳(西館)

Chairs: Prof. Ming-Wei Wu, National Taipei University of Technology (Taiwan)

Prof. Takahiro Kunimine, Kanazawa University (Japan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
D01 0129	13:30~13:55	Jiasheng Bai Shanghai Tungwise Advanced Materials Co., Ltd., China	Fabrication of Functionally Gradient WC-Co Hardmetals for Diamond Coated Tools (Invited)
D02 0009	13:55~14:15	Janusz Konstanty AGH-University of Science & Technology, Poland	Wear Resistant Diamond-Impregnated Tool Composites
D03 0027	14:15~14:35	Xiaofeng Li North University of China, China	Effect of NbC and VC on Structures and Mechanical Properties of WC-6Co Functionally Graded Cemented Carbides NO SHOW
D04 0043	14:35~14:55	Yong Liu State Key Lab of Powder Metallurgy, China	Ultra-high Strength Refractory High Entropy Alloy/TiC Composite Prepared by Powder Metallurgy
D05 0044	14:55~15:15	Jen-Yung Hsu China Steel Corporation, Taiwan	Effect of Air-Blowing Treatment of Carbonaceous Powder on the Properties of the Derived Sintered Blocks
D06 0170	15:15~15:35	W.G. Wang School of Mechanical Engineering, Liaoning Shihua University, China	Effects of Deep Cryogenic Treatment on Microstructures and Cutting performances of Ultrafine- Grained WC-Co Cemented Carbide NO SHOW
	15:35~15:50		Coffee break

Chair: Dr. Jiasheng Bai, Shanghai Tungwise Advanced Materials Co., Ltd. (China)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
D07 0118	15:50~16:10	Ming-Wei Wu National Taipei University of Technology, Taiwan	Liquid Phase Sintering of Boron-Alloyed Powder Metallurgy Steel with Nickel

D08 0093	16:10~16:30	Takahiro Kunimine Kanazawa University, Japan	Fabrication of Nano-diamond/Silicon Carbide Composite Abrasives Dispersed Functionally Graded Materials by Centrifugal Sintered-Casting and Its Drilling Performance for CFRP Laminates
D09 0243	16:30~16:50	Biao Yan Tongji University, China	Isothermal External Oxidation Behavior of W-added Ferritic Stainless Steel Weldment in High Temperature
D10 0251	16:50~17:10	Hans Ulrich Benz Zoz GmbH, Germany	Nanostructured Ferritic Alloys (NFA) as the Next Gen. ODS Manufactured by High Kinetic Processing (HKP)
D11 0258	17:10~17:30	Barbara Maroli Höganäs AB, Sweden	Overlay Welding of NiSiB Mixes with Tungsten Carbides
	18:00~ 21:00	Conference Banquet (Grand Ballroom 宴會廳)	

APMA 2017 Program for Technical Sessions

Symposium E: Electronic and Magnetic Materials

Organizer: Prof. Wen Cheng CHANG, National Chung Cheng University

Monday, April 10, 2017

Tung Blossom Room (3F, East Wing) 桐花廳(東館)

Chairs: Dr. Cheng-Sheng Yu, China Steel Corp. (Taiwan)

Dr. Fumihiro Kino, Mitsubishi Steel Mfg. Co., Ltd. (Japan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
E01 0023	13:30~13:50	Cheng-Sheng Yu China Steel Corp., Taiwan	Fabrication of FeCrSiBC Amorphous Alloy Powder Cores with Low Core Loss
E02 0056	13:50~14:10	Yong-Jin Kim Korea Institute of Materials Science, Korea	Preparation of Amorphous Soft Magnetic Powers through High-Pressure Gas Atomization
E03 0065	14:10~14:30	Seong Jin Park Pohang University of Science and Technology, Korea	Fabrication Of Sintered Fe-3.5Si Soft Magnet for AC Application By Powder Injection Molding
E04 0079	14:30~14:50	Fumihiro Kino Mitsubishi Steel Mfg. Co., Ltd., Japan	Effect of Flattening Process on Soft Magnetic Properties in High Frequency Range for Fe-Ni Alloy Powders
E05 0021	14:50~15:10	Xin Liu Guangdong Institute of Materials and Processing, China	Preparation and Performance of Fe-6.5wt%Si Soft Magnetic Composites with Hybrid Phosphate-Silica Insulation Coatings
E06 0244	15:10~15:30	Biao Yan Tongji University, China	Structure and Magnetic Properties of Fe@ZrO ₂ Core-Shell Particles and Fe/ZrO ₂ Soft Magnetic Composites
	15:30~15:50		Coffee break

Chairs: Prof. Seong Jin Park, Pohang University of Science and Technology (Korea)

Prof. Hong-Ming Lin, Tatung University (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
E07 0262	15:50~16:10	Hyunjoo Choi Kookmin University, Korea	Soft Magnetic Properties of Fe-based Amorphous/Nanocrystalline Hybrid Materials
E08 0242	16:10~16:30	Biao Yan Tongji University, China	The Structural and Magnetic Properties of Fe-6.5wt.%Si/NiZn(Fe ₂ O ₄) ₂ Soft Magnetic Composites Prepared by Spark Plasma Sintering

E09 0116	16:30~16:50	Y.H. Hung China Steel Corporation, Taiwan	Influence of SSA and Particle Size Distribution on Sintering Behavior of Fe ₂ O ₃
E10 0099	16:50~17:10	Hong Show Koo Minghsin University of Science and Technology, Taiwan	Investigation on Degradation Mechanism of the Dye- Sensitized Solar Cells with NiO-doped ZnO Film- Electrodes NO SHOW
E11 0068	17:10~17:30	Hye-Moon Lee Korea Institute of Materials Science, Korea	Fabrication of Al Coated Film by R2R Process by Al Precursor Ink
E12 0076	17:30~17:50	Jamie Washington Höganäs AB, Sweden	Axial Flux PM Machines for Compressor Application

Tuesday, April 11, 2017

Tung Blossom Room (3F, East Wing) 桐花廳(東館)

Chair: Prof. Wen Cheng Chang, National Chung Cheng University (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
E13 0222	09:40-10:00	Nagata Hiroshi Institute of Rare Earth Magnetic Material, Xiamen Tungsten Co., Ltd., China	Magnetic Properties and Microstructure of Heavy Rare Earth Free Sintered Nd-Fe-B Magnetic Materials
E14 0069	10:00-10:20	Kazunari Shimauchi Sumitomo Electric Industries, Ltd., Japan	Thermostability Nd-Fe-B Magnet Formed by Binder- Less Net-Shaping Process
E15 0083	10:20-10:40	Wen Cheng Chang National Chung Cheng University, Taiwan	Coercivity Enhancement in Hot Deformed Nd ₂ Fe ₁₄ B- Type Magnets by Doping Low-Melting RCu Alloys (R = Nd, Dy, Nd+Dy)
	10:40~10:50	break	

APMA 2017 Program for Technical Sessions

Symposium F: Green Energy Materials and Devices (SOFC/Li Battery)

Organizer: Prof. Sea-Fue WANG, National Taipei University of Technology

Co-Organizer: Dr. Shih-Chieh LIAO, Industrial Technology Research Institute (ITRI)

Tuesday, April 11, 2017

Truth Room (4F, East Wing) 真理廳(東館)

Chair: Dr. Shih-Chieh Liao, Industrial Technology Research Institute (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
F01 0132	09:40-10:05	Xiangxin Guo Shanghai Institute of Ceramics, Chinese Academy of Sciences, China	Highly Conducting Garnet Powders for Rechargeable Solid State Lithium Batteries (Invited)
F02 0168	10:05-10:25	Chi-Hung Su Institute of Nuclear Energy Research, Taiwan	Bendable and Flexible All-Solid-State Lithium Batteries
F03 0239	10:25-10:45	Sung-Soo Ryu Korea Institute of Ceramics and Technology, Korea	Low Temperature Sintering of Garnet-Type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes with Li_3BO_3 Additive Produced by Polymeric Precursor Method
	10:45~10:50		break

Chair: Dr. Shih-Chieh Liao, Industrial Technology Research Institute (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
F04 0122	10:50-11:10	Ru-Shi Liu National Taiwan University, Taiwan	Preparation and Characterization of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ as Solid State Electrolyte for Li-ion Battery
F05 0136	11:10~11:30	Hsin-Ta Huang 泓辰電池材料 (HCM Co., Ltd.), Taiwan	Lithium Manganese Iron Phosphate: The Next-Generation Olivine Cathode Material for Li-ion Batteries
F06 0074	11:30~11:50	Cheng-Zhang Lu Industrial Technology Research Institute, Taiwan	5 V $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Materials for Li-ion Batteries
F07 0037	11:50~12:10	Ting-Ju Yeh Industrial Technology Research Institute, Taiwan	Inorganic Additive as In-Situ Growth Film on LNMO Surface to Improve High-Voltage Performance

	12:10~13:30	Lunch break
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Chair: Dr. Chien-Min Wang, COHO Biomedical Technology Co., Ltd. (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
F08 0081	13:30~13:50	Kuan-Yu Ko Industrial Technology Research Institute, Taiwan	Preparation and Characterization of Multi-Doped Li ₄ Ti ₅ O ₁₂ with Anode Material for Lithium Ion Batteries
F09 0073	13:50~14:10	Chia-Ming Chang Industrial Technology Research Institute, Taiwan	Performance of Lithium Titanate Batteries
F10 0052	14:10~14:30	Hsiu-Fen Lin National Formosa University, Taiwan	The Effect of Doping on Electrochemical Performance of Lithium Rich Cathode Materials for Lithium-ion Batteries
F11 0040	14:30~14:50	Chia-Erh Liu Industrial Technology Research Institute, Taiwan	Improvement of Electrochemical Properties of Electrode Materials for Lithium Ion Battery by Surface Modifications.
F12 0151	14:50~15:10	Baorui Jia University of Science and Technology Beijing, China	Two Steps Synthesis of Vanadium Oxide/Carbon- Nanotubes for Anodes of Lithium Ion Batteries NO SHOW
F13 0111	15:10~15:30	W. P. Huang Porite Taiwan Co. Ltd., Taiwan	Study of Sintering Fe-Cr Alloy—Part I Effect of Iron Content on Sintering Properties
	15:30~15:50	Coffee break	

Chairs: Prof. Sea-Fue Wang, National Taipei University of Technology (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
F14 0114	15:50~16:10	W. P. Huang Porite Taiwan Co. Ltd., Taiwan	Study of Sintering Fe-Cr Alloy - Part II Effect of Process Condition on Resistance
F15 0135	16:10~16:30	Sheng-Fu Yang Institute of Nuclear Energy Research, Taiwan	Porous Fe-Cr Alloy Fabricated as Support for Metal- Supported Solid Oxide Fuel Cell Membranes
F16 0130	16:30~16:50	Nuri Solak Istanbul Technical University, Turkey	Experimental Phase Studies in the La-X-Ni-O (X=Mg, Sr) System
	18:00~ 21:00	Conference Banquet (Grand Ballroom 宴會廳)	

APMA 2017 Program for Technical Sessions

Symposium G: Additive Manufacturing (3D Printing)

Organizer: Prof. Jhewn-Kuang Chen, National Taipei University of Technology

Monday, April 10, 2017

Lily Room (3F, East Wing) 百合廳(東館)

Chairs: Prof. J.K.Chen, National Taipei University of Technology (Taiwan)

Dr. Ji-Hun Yu, Korea Institute Of Materials Science (Korea)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
G01 0279	13:30~13:55	Chen-Nan Sun Agency for Science, Technology, and Research (A*STAR), Singapore	In -Process Monitoring and Quality Assurance in Selective Laser Melting Process (Invited)
G02 0182	13:55~14:15	Naoko Sato National Institute of Advanced Industrial Science and Technology, Japan	Melting Efficiency Change at the Laser Irradiation Point during a Selective Laser Melting Process
G03 0144	14:15~14:35	Jason Ting Thermal Technology LLC & INTECO GmbH, USA	Metal Powder Atomization Process for Additive Manufacturing: A Pulsatile Atomization Model Presented
G04 0196	14:35~14:55	Chao Guo Tsinghua University, China	Study on Dual Metal Materials Electron Beam Selective Melting
G05 0028	14:55~15:15	C. K. Yao Porite Taiwan Co. Ltd., Taiwan	The Feasibility Study of Additive Manufacturing Conformal Cooling Channel Applied on Mass Production of PM Parts
G06 0070	15:15~15:35	Takahiro Kimura Technology Research Institute of Osaka Prefecture, Japan	Selective Laser Melting with AlSi7Mg0.3 Aluminum Alloy Powder
	15:35~15:50		Coffee break

Chairs: Dr. Chao Guo, Tsinghua University (China);

Dr. Naoko Sato, AIST (Japan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
G07 0173	15:50~16:10	Stefan Heino / Kenneth Asvik Uddeholms AB, Sweden	Material Properties and Quality Considerations for AM Tool Steels

G08 0071	16:10~16:30	Z. Chen Tottori University, Japan	Influences of Processing Parameters on Microstructure and Mechanical Properties of SLMed Maraging Steel
G09 0230	16:30~16:50	Ji-Hun Yu Korea Institute of Materials Science, Korea	Effect of Post-Processing on the Flowability of Gas-Atomized Fe-Based Tool Steel Powder for Selective Laser Melting Process
G10 0047	16:50~17:10	CANCELLED	CANCELLED
G11 0123	17:10~17:30	Shubin Ren University of Science and Technology Beijing, China	Additive Manufacturing of 17-4PH Steel with 3% TiB ₂ Additive
G12 0278	17:30~17:50	An-Chou Yeh National Tsing-Hua University, Taiwan	On the Investigation of Selective Laser Melted Tungsten Carbides

Tuesday, April 11, 2017

Lily Room (3F, East Wing) 百合廳(東館)

Chair: Prof. Hong Wu, Central South University (China)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
G13 0026	09:40-10:00	Martin Kearns Sandvik Osprey Ltd., UK	Powder Aging and Effects on Consistency & Properties of 316L Parts Made by Selected Laser Melting.
G14 0103	10:00-10:20	Miki Kato ExOne, USA	Production Example of a SUS 316L Part by the Binder Jetting 3D Printing Process
G15 0095	10:20-10:40	Ki Tae Kim / S. J. Park Pohang University of Science and Technology, Korea	The Effects of Encapsulation for Post-Hip on Additive Manufactured SUS 316L Powder Compacts: Mechanical Properties
	10:40~10:50		break

Chair: Dr. Shubin Ren, University of Science and Technology Beijing (China)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
G16 0080	10:50-11:10	Naoyuki Nomura Tohoku University, Japan	Fabrication and Characterization of Zr-1Mo Alloy by Powder Bed Fusion Process Using Fiber Laser for Biomedical Application
G17 0057	11:10~11:30	Hong Wu Central South University, China	Microstructure and Mechanical Behavior of Laser Melting Deposition Zr-based Bulk Metallic Glass Composites

G18 0146	11:30~11:50	Yen-Ling Kuo Tokyo Metropolitan University, Taiwan	Microstructure and High-Temperature Strengths of IN718 Built up by Direct Metal Laser Sintering
G19 0171	11:50~12:10	Lin Zhao Central Iron and Steel Research Institute, China	Study on Laser Cladding of Ni ₃ Al/Cr ₃ C ₂ Composites for Engine Applications
	12:10~13:30	Lunch break	

Chairs: Prof. Naoyuki Nomura, Tohoku University (Japan);
Prof. An-Chou Yeh, National Tsing-Hua University (Taiwan)

Program No. Paper No.	Time	Corresponding Author Affiliation	Topic
G20 0198	13:30~13:50	Haibin Ji Institute of Metal Research, Chinese Academy of Sciences, China	Microstructure and Mechanical Properties of High- Strength Titanium Alloy Fabricated by Additive- Manufacturing CANCELLED
G21 0161	13:50~14:10	Shujun Li Institute of Metal Research, Chinese Academy of Sciences, China	Microstructure and Mechanical Properties of Beta-Type Ti-24Nb-4Zr-8Sn Porous Structure Fabricated by Electron Beam Melting
G22 0086	14:10~14:30	J.K.Chen National Taipei University of Technology, Taiwan	Effect of Heat Treatment on Microstructure and Thermal Conductivity of Selective Laser Melting Ti-6Al-4V Alloy
G23 0091	14:30~14:50	Masafumi Sato Nagoya Institute of Technology, Japan	Effects of TiC Particles on Microstructure of Additively Manufactured Ti-6Al-4V Fabricated by Selective Laser Melting Method
G24 0274	14:50~15:10	Yi-Sheng Lai National United University, Taiwan	Simulation of Selective Laser Melting of Ti-6Al-4V Powders
G25 0280	15:10~15:30	Pei-Chen Su Nanyang Technological University, Singapore	Shape Memory Polymers Printable by Stereolithography
	15:30~15:50	Coffee break	

APMA 2017 Program for Technical Sessions

Powder, Special Interest Program

Monday, April 11, 2017

Lily Room (3F, East Wing) 百合廳(東館)

Host: Mr. Ola Litström, Höganäs Taiwan (Taiwan)

Program	Time	Panelist	Topic
Electrification	15:50~17:30	Dr. Sherry Wang LeSee Ltd, China	The Electrification in China
		Mr. Hans Söderberg Höganäs AB, Sweden	Automotive Electrification – Opportunities for the PM Industry
Discussion	17:30~17:50	Panel Discussion, Q&A	

APMA 2017 Program for Poster Sessions

Organizer: Prof. M. W. Wu, National Taipei University of Technology

Setup time: Apr. 10, 2017, 09:30-10:30

Removal time: Apr. 11, 2017, 16:30-17:30

Poster presenters are advised to stand by their posters during 15:00-16:00 on Apr. 10

Symposium A: High Performance PM Processing and Applications

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PA01 0010	Chongxi Bao NBTM New Materials Group Co., Ltd., China	Crack Control of PM Part for Induction Hardening
PA02 0017	Chen Jie Central South University, China	Effects of Sintering Temperature on Microstructure and Mechanical Properties of Fe-3Mo-3Cr-xV-0.5Mn-2C Alloys
PA03 0048	Tomohiro Sato Kansai University, Japan	Application of Vacuum Atmosphere for Sinter-Resistant Cu Alloy
PA04 0054	Chao-Hsu Cheng Chung Chou University of Science and Technology, Taiwan	Study on the Morphology of Martensite and Properties in Sintered Steel after Heat Treatment
PA05 0075	Minchul Kim Pimkorea, Korea	Correlation between Powder Size and Sintered Density NO SHOW
PA06 0098	Sangha Park Daegu Mechatronics Materials Institute, Korea	FEM Analysis and Sintering Characteristics of Granulated-Fine Metal Powders NO SHOW
PA07 0104	Jai-Sung Lee Hanyang University ERICA, Korea	Processing of Fine-grained High Strength Iron Nanopowder PM Part
PA08 0107	Hung Yen Yeh Porite Taiwan Co. Ltd., Taiwan	The Study between Sintering Parts Temperature and Corrosion Resistance in Oil Dipping Process
PA09 0108	Tianguo Wang School of Materials Science and Engineering, Hubei University of Automotive Technology, China	Investigation on the Fabrication and Properties of the Cu-Base Friction Composites NO SHOW
PA10 0141	Zhongnan Xiang National R&D center for Tungsten Technology, China	The Development of Novel Extrusion Molding Agent Containing High Polymer

PA11 0157	Zhimeng Guo University of Science and Technology Beijing, China	Titanium Ingot with Large Size and Low Oxygen Prepared By Powder Metallurgy NO SHOW
PA12 0158	Cunguang Chen University of Science & Technology Beijing, China	High Speed Steel with High Performance by Ultrafine-Powder Atomization NO SHOW
PA13 0186	Zhiyu Xiao South China University of Technology, China	Rolling Friction and Wear Behaviors of a Surface Densified Powder Metallurgy Fe-2Cu-0.6C Material
PA14 0219	Ji-Soon Kim University of Ulsan, Korea	Spark-Plasma Sintering of Fe-TiB ₂ Nanocomposite Powders
PA15 0221	Biao Yan Tongji University, China	Effect of Cooling Rate on Microstructure and Mechanical Properties of Iron - Rich Phase in Al - Fe Alloy

Symposium B: PM Materials

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PB01 0007	Chen Jie Central South University, China	Effect of Porogen and Sintering Temperature on Aperture of Porous Copper Material
PB02 0015	Ying Deng Chongqing University of Arts and Sciences, China	Preparation of Ultrafine Ti(C,N) Based Cermet Constructed by β -Co and Research on its Toughening Mechanism NO SHOW
PB03 0036	Ling Deng Chengdu Chengliang Tool Group Co., Ltd., China	Synthesis of Cubic Co Micro/Nano Powders by Mechanism-Chemical Method: The Influence of Reaction Complex and Mechanical Force NO SHOW
PB04 0082	Pee-Yew Lee National Taiwan Ocean University, Taiwan	Rapid Alloying of Bi ₂ Te ₃ by High Energy Ball-Milling of the Elemental Powders
PB05 0112	Hoyen Hsieh Plus Metal Tech., Co. Ltd., Taiwan	Compared to Ni-base Film Coated by High Velocity Oxygen Flame and Flame Spray after Thermal Post-Treatment
PB06 0214	Peter Sokolowski / Steven Zhu Hoeganaes, China	Use of Diffusion Alloyed Steels for High Performance Applications
PB07 0218	Jen-Hung Hsu Industrial Technology Research Institute, Taiwan	Study on Improving Corrosion Resistance of Powder Metallurgy Stainless Steel Parts
PB08 0220	Deyin Zhang University of Science and Technology Beijing, China	Facile Route for Synthesis of Atomically Mixed Fe ₅₀ Co ₅₀ -Nanoalloy NO SHOW

PB09 0228	Kai Jyun Jhong National Cheng Kung University, Taiwan	Fabrication of High Performer of NdFeB Magnet by Using Fused Deposition Modeling NO SHOW
PB10 0240	Jiunn-Der Liao National Cheng Kung University, Taiwan	Development of Zirconia Thin Film Coating on Porous-Titanium to Enhance Mechanical Properties and Biocompatibility
PB11 0259	Jiunn-Der Liao National Cheng Kung University, Taiwan	Preparation and Properties of Porous Zr/Ti Scaffold Based Functional Materials
PB12 0264	Liu Yibo Beijing Gang Yan Diamond Products- Company, China	Microstructure and Mechanical Properties of Laser Beam-Welding NO SHOW
PB13 0266	Jiunn-Der Liao National Cheng Kung University, Taiwan	Development in Zirconia and Titanium for in Vitro Biomedical Application
PB14 0267	Chun Pin Lin Da Yeh University, Taiwan	Organic Coating on the Zirconia Implant by DEODMS Plasma Polymerization to Promotion Biomedical Application

Symposium C: Powder Injection Molding

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PC01 0024	Hui Chen Chongqing University of Arts and Sciences, China	Catalytic Debinding for 304L Powder Injection Molding NO SHOW
PC02 0062	Xiaolong Jing Chongqing University of Arts and Sciences, China	Research on Preparation and Application of the Catalytic-Debinding Feedstock for 304 Stainless Steel Powder- Injection Molding NO SHOW
PC03 0150	Luo Tiegang, Guangdong Institute of Materials and Processing, China	Influence of Powder Characteristics on PIM Titanium Parts Performance
PC04 0187	Rui Li University of Science and Technology- Beijing, China	Sintering Densification Behavior of Metal Injection Molded-Tungsten Parts Via Jet Milling NO SHOW
PC05 0200	Meigui Qi Xiamen Honglu Tungsten Molybdenum Industry Co., Ltd., China	Metal Injection Moulding of Tungsten Components for Ion Implantation Application

Symposium D: Refractory Metals and Hard Materials

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PD01 0019	Shih-Hsien Chang National Taipei University of Technology, Taiwan	Effects of Adding NbC Powders to AISI 440C Tool Steel by Vacuum Sintering and HIP Treatments
PD02 0033	H.S. Huang China Steel Corporation, Taiwan	Cr Rotary Sputtering Target Prepared by Powder Hot Isostatic Pressing
PD03 0039	Peng Yu Zhuzhou Cemented Carbide Group Corp. Ltd., China	Phase Transition of Cobalt in Tungsten Carbide under Static- Service NO SHOW
PD04 0067	Shih-Hsien Chang National Taipei University of Technology, Taiwan	Study on the Properties of WC-Ni-Fe Hard Metal Alloys by Vacuum Sintering and HIP Treatments
PD05 0087	Shou-Hsien Lin Solar Applied Material Corp., Taiwan	Investigation of the Ta Target Sintered by Spark Plasma Sintering Combined with Hot Isostatic Pressing and Their Sputtering Performance
PD06 0088	Li Li Chongqing University of Arts and- Science, China	Effect of TaC on W-Ti-Co Ultrafine Cemented Carbides NO SHOW
PD07 0164	Baohai Yu Shenyang Jinfeng Special Cutting Tools Co., Ltd., China	Surface Modification of Metal Ceramic Alloy Structure and- Surface Layer Modification during Electron Ion Plasma NO SHOW
PD08 0167	Wang Guangda ATTL Advanced Materials Co., Ltd, China	The Study of Deformation Process on the Properties of Mo- Re Alloys Foils NO SHOW
PD09 0172	Matt Wei Plus Metal Tech Co., Taiwan	Influence of Titania to Plasma Sprayed Alumina-Titania- Coatings NO SHOW
PD10 0199	Yi-Hang Yang Xiamen Honglu Tungsten Molybdenum Industry Co. Ltd, China	Microstructures and Tensile Properties of Molybdenum Plate Processed by Multidirectional Forging
PD11 0201	Tao Lin University of Science and Technology- Beijing, China	Effects of Different Iron Powders on Properties of Diamond- Fickert NO SHOW
PD12 0202	Li-Shing Chou Industrial Technology Research Institute, Taiwan	Preparation of Fe-Based Metallic Glass Powders by Gas Atomization for Coating Applications

PD13 0209	Laima Luo / Yucheng Wu Hefei University of Technology, China	Preparation and Properties of W-TiC-Y ₂ O ₃ Composite Prepared by Thermal Mechanical Process Method NO SHOW
PD14 0227	Zheng Chen University of Science and Technology- Beijing, China	Facile Synthesis of Ultrafine W-La ₂ O ₃ Nanopowders by Combustion-Based Method NO SHOW
PD15 0246	T. Y. Yeh Industrial Technology Research Institute, Taiwan	Study on Gas Atomized Ti/TiC Composite Powder For HIP-Process NO SHOW
PD16 0265	Lairong Xiao Central South University, China	Effect of Si Content in the Slurry on the Microstructure and Mechanical Properties of Laminated Nb/Nb ₅ Si ₃ Composite NO SHOW

Symposium E: Electronic and Magnetic Materials

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PE01 0034	P. W. Chen China Steel Corp., Taiwan	Effect of Refining Jet-Milled Powders on Sintered NdFeB Magnets
PE02 0041	Hiroyuki Kitagawa Shimane University, Japan	Texture Control of Bi _{0.4} Sb _{1.6} Te ₃ Thermoelectric Materials by Pulse-Current Sintering under Cyclic Uniaxial Pressure
PE03 0045	P. Y. Su Solar Applied Materials Corp., Taiwan	Effect of Particle Size on the Crystal Structure of IGZO Target
PE04 0049	Sheng-Jen Lin Superrite Electronics Co., Ltd., Taiwan	Influence of Additives on the Microstructure and Magnetic Properties of Sintered Anisotropic Sr-Hexaferrite Magnets
PE05 0051	W. C. Chang National Chung Cheng University, Taiwan	Optimization of the Magnetic Properties of Hot Deformed NdFeB Magnets
PE06 0055	Han-Hsun Chiang Superrite Electronics Co. Ltd., Taiwan	The Study of Magnetizing Fixture Design for Isotropic Magnet by Magnetic Circuit Simulation
PE07 0059	Hiroyuki Kitagawa Shimane University, Japan	Electrical Properties of a Glass Matrix-Flat Metal Alloy Particle Composite for Resistor Applications
PE08 0077	Farah Liana Binti Mohd Redzuan Osaka University, Japan	Influence of Phosphorus Addition to the Microstructure of n-type β-FeSi ₂ /Si Duplex Composites' Thermoelectric Material
PE09 0096	Yuh-Jing Chiou Tatung University, Taiwan	Synthesis and Characterization of PANI-MWCNTs Supported Nano Hybrid Electrocatalysts

PE10 0100	Hong-Show Koo Minghsin University of Science and Technology, Taiwan	Effect of Y_2O_3 -ZnO Photoelectrodes on the Optoelectronic Characterization of the Dye Sensitized Solar Cells NO SHOW
PE11 0215	Yung-Fu Wu Ming Chi University of Technology, Taiwan	Fabrication of Indium Gallium Zinc Oxide Film from Powder Waste
PE12 0232	Hong-Ming Lin Tatung University, Taiwan	Synthesis and Characterization of Silver/Iron Nanowires
PE13 0270	C. C. Huang China Steel Corporation, Taiwan	Improvement of Magnetic Properties of S-Band Phase Shifter Using Mn and Al Substitution $Y_3Fe_5O_{12}$ Ferrite
PE14 0273	Nurudeen Wasiru Adio The Polytechnic Ibadan, Nigeria	Magnetic Materials in Sustainable Energy NO SHOW

Symposium F: Green Energy Materials and Devices (SOFC/Li Battery)

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PF01 0102	Chien-Te Hsieh Yuan Ze University, Taiwan	Co-Precipitation Synthesis of $LiMn_{0.8}Fe_{0.8}PO_4$ Cathodes and Their Lithium Ion Diffusion Phenomena NO SHOW
PF02 0143	Jeng-Kuei Chang National Central University, Taiwan	High Performance CuO@CMK-8 Nanocomposite as Anode Material for Sodium-Ion Batteries
PF03 0162	Tai-Nan Lin Institute of Nuclear Energy Research, Taiwan	Microstructure Refinement in the Electrodes to Enhance Performance in the Anode-Supported Solid Oxide Fuel Cell
PF04 0163	Chia-Chen Fang Industrial Technology Research Institute, Taiwan	High Energy Solid State Battery NO SHOW
PF05 0176	Chang-Sing Hwang Institute of Nuclear Energy Research, Taiwan	Flexible Metal-Supported Solid Oxide Fuel Cells Produced by Atmospheric Plasma Spraying Method
PF06 0185	Ping-Li University of Science and Technology Beijing, China	Platinum Nanoparticles Grown on Shell Amorphous Carbon- Coated Tungsten Carbide: Highly Active and Stable Electrocatalyst for Efficient Hydrogen Production NO SHOW

PF07 0189	WITHDRAWN	WITHDRAWN
PF08 0190	Nae-Lih Wu National Taiwan University, Taiwan	Converting Rice Husks into High-Capacity Lithium-ion Battery Anodes
PF09 0195	Liang-Wei, Huang Institute of Nuclear Energy Research, Taiwan	Effects of Brazing Temperature and Time on the Microstructural Properties of Metallic Interconnect/Ag-CuO/Ceramic Electrolyte Joints
PF10 0223	Sea-Fue Wang National Taipei University of Technology, Taiwan	La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ -Supported Micro-Tubular Solid Oxide Fuel Cells with Bi-Layer and Tri-Layer Electrolytes
PF11 0224	Men-Han Huang Institute of Nuclear Energy Research, Taiwan	The Effect of Nano-Catalysts Composition on Methane Steam Reforming Conversion
PF12 0234	Sea-Fue Wang National Taipei University of Technology, Taiwan	Apatite-Type Lanthanum Silicate-Base Electrolyte Films Deposited by RF Magnetron Sputtering
PF13 0235	Sea-Fue Wang National Taipei University of Technology, Taiwan	Characteristics of LSGM Films for SOFC Applications
PF14 0236	Sea Fue Wang National Taipei University of Technology, Taiwan	Effects of Dopants on the Electrical Properties of GdCoO ₃ Cathodes for Solid Oxide Fuel Cell Applications
PF15 0237	Sea-Fue Wang National Taipei University of Technology, Taiwan	Effects of Alkali Metal Dopants on the Electrical Properties of Lanthanum Silicate Based Electrolytes.

Symposium G: Additive Manufacturing (3D Printing)

Poster No. Paper No.	Corresponding Author Affiliation	Topic
PG01 0050	Xin-Tang Li Ai Hong, China	The Influence of Moisture Content on the Physical Properties and Processability of the Spherical Metal Powder NO SHOW
PG02 0085	J.K. Chen National Taipei University of Technology, Taiwan	Effects of Building Direction on the Compression Properties of Selective Laser Melted Ti-6Al-4V

PG03 0128	Ming-Wei Wu National Taipei University of Technology, Taiwan	The Effect of Heat Treatment on the Impact Toughness of Ti-6Al-4V Alloy Manufactured by Selective Laser Melting
PG04 0142	Wei Zhang Powder Metallurgy Research Institute, Central South University, China	Characteristics of Fine Spherical β Solidifying TiAl Alloy Powder by Plasma Rotating Electrode Process NO SHOW
PG05 0159	Hao Junjie University of Science and Technology Beijing, China	Preparation and Properties of Coarse and Spherical Tungsten Powder by Radio Frequency Plasma NO SHOW
PG06 0169	Xuebing Wang Central Iron and Steel Research Institute, China	The Effect of Laser Power and Scanning Speed on the Thickness of Tungsten Tiny Parts Fabricated by SLM Technology
PG07 0175	Jin-Chun Kim University of Ulsan, Korea	One Step Preparing ABS-Ni Composite for Application in 3D Printing by Using Milling Method
PG08 0179	Jin-Chun Kim University of Ulsan, Korea	Microstructure of STS316L Metal Products with Laser Parameters of Powder Bed Fusion Process
PG09 0204	Chih-Chao Yang Industrial Technology Research Institute, Taiwan	Gas Atomization of High Entropy AlCoCrCuFeNiSi Alloys for Additive Manufacturing NO SHOW
PG10 0238	Lina Jia Beihang University, China	Fabrication of Niobium Solid Solution Alloy by Laser Based Additive Manufacturing NO SHOW
PG11 0272	Hsuan-Chung Wu Ming Chi University of Technology, Taiwan	Numerical Simulation of Melt Pool Characterization during Selective Laser Melting