

TECHNICAL PROGRAM

Day I

December 14th, 2016

08:00-09:00	Registration (Foyer Area, 2 nd Floor) and Poster Setup (Foyer Area, 2 nd & 3 rd Floor)											
09:00-09:15	Opening Ceremony (Le Concorde Ballroom, 2 nd Floor)											
09:15-10:00	Plenary Lecture 1: "Bringing it All Back Home" How Waste-to-Biobased Products is Good for Energy, the Environment, Water, and Society <i>by Prof. Seth Snyder</i>											
10:00-10:45	Plenary Lecture 2: Geopolymerization as Cold-consolidation Techniques for Hazardous and Non-hazardous Wastes <i>by Prof. Cristina Leonelli</i>											
10:45-11:00	Break											
Room	Salon A	Salon B	Jamjuree	Krisana	Sakthong	Shanghai	Rachavadee	Patumchard	Ubonchard	Satubud		
Floor	2 nd Floor	2 nd Floor	2 nd Floor	2 nd Floor	2 nd Floor	2 nd Floor	2 nd Floor	3 rd Floor	3 rd Floor	3 rd Floor		
Session	TSDB 1	MRS 1		Ceramics 1 (Ceramics and Composite Materials)	Materials for Energy 1	Polymers 1	Materials Technology for Environment 1	Metals, Alloys & Intermetallic Compounds 1 (Metal Forming)	Surface Engineering and Heat Treatment 1	Design & Manufacturing and Computational Science & Engineering 1		
Session Chair	Asst.Prof. Dujreutai P. Kashima	Dr. Worawarong Rakreungdet		Dr. Apirat Theerapapvisetpong	Dr. Worawarit Kobsiriphat	Dr. Asira Fuongfuchat	Dr. Samerkhae Jongthammanurak	Dr. Sasawat Mahabunphachai	Withawat Wongpisan	Dr. Sombon Otarawanna		
11:00-11:15	The 3 rd Meeting of Thai Society of Dental Biomaterials	11:00-12:30 The 1 st Annual Meeting of MRS- Thailand "Innovative Materials for Industry 4.0 (Private Section)"		CER-I-01 Machinable Glass-Ceramics as a Dental Material <i>Asst.Prof. Duangrudee Chaysuwan</i>	ENR-O-01 Graphene-AgVO ₃ Composite for Supercapacitor Applications <i>Jiaqian Qin</i>	POL-I-01 Polymer Research in Thailand: Past, Present and Future <i>Asst.Prof. Krisda Suchiva</i>	ENV-I-06 Investigation of Ag- GO-TiO ₂ Cocatalyst Composites for Photocatalysis Application <i>Dr. Chanchana Thanachayanont</i>	MET-O-01 Utilization of Binding Ice Flakes with Pulp-Fibers as Fillings on Tube Forming <i>Takahiro Ohashi</i>	SUR-O-01 Effects of Heat Treatment on Microstructure and Properties of Thermal Sprayed Ni-based alloy Coatings <i>Phuangphaga Daram</i>	DMC-I-01 Meta-Heuristics for Engineering Optimisation <i>Prof. Sujin Bureerat</i>		
11:15-11:30					ENR-O-02 Characterization of Polyaniline/Carbon Nanotube/Pineapple-Polyester Fabric Composites as Supercapacitor Electrodes <i>Felicidad Christina Ramirez</i>			MET-O-02 Bending Limit Curves in Sheet Metal Bending Evaluation <i>Sansot Panich</i>	SUR-O-02 Tribological of Thermal Sprayed Coating under Slurry Erosion <i>Chalermchai Sukhonkhet</i>			
11:30-11:45					CER-O-01 Synthesizing of Glass Ceramics-Composite for Opal Imitation by Direct Sintering Method <i>Saweat Intarasiri</i>	ENR-O-03 Piña (<i>Ananas comosus</i>) and Water Hyacinth (<i>Eichhornia crassipes</i>) Polyester Blended Textiles with Polypyrrole as Supercapacitor Electrode Materials <i>David Joseph Alzate</i>	POL-O-01 The Effect of Calcium Carbonate on Crystallization Behavior and Morphology of Poly(3-hydroxybutyrate-co-3-valerate) <i>Sitthi Duangphet</i>	ENV-O-06 Using ZnO Nanorods Coated Porous Ceramic Monolith to remove Arsenic from Groundwater <i>Kannika Khwamsawata</i>	MET-O-03 Effect of Fold-Forging Techniques on Mechanical Properties of Medium Carbon Steel for Sword Making Process <i>Kotchaporn Paveebunvipak</i>		SUR-O-03 Flame Spray Coating for Erosion Protection on Water Wall Pipe in Biomass Fired Powder Plant Boiler <i>Vasin Lertvijitpun</i>	DMC-O-01 Corrosion Prediction Using ANN for Offshore Pipeline in the Gulf of Thailand <i>Passaworn Silakorn</i>
11:45-12:00					CER-O-02 Destructive & Non-destructive Behavior of Nickel Oxide Doped Bioactive Glass & Glass-ceramic <i>Vikash Kumar Vyas</i>	ENR-O-04 Graphene Passivation of Aluminum Current Collector for Supercapacitor Electrode <i>Jedsada Manyam</i>	POL-O-02 Low Haze and Antifog Performance of 2-layer Poly(lactic acid) Based Films <i>Pitcha Liewchirakorn</i>				SUR-O-04 Thermal Sprayed Technique for Preparing HEA-Reinforced Oxide Matrix Composite <i>Hathaipat Koiprasert</i>	DMC-O-02 C ¹ -triangular Finite Elements on a Curvilinear Boundary Domain <i>Wassamon Phusakulkajorn</i>
12:00-13:00	Lunch (Sarocha Room, 3 rd)		Lunch (4 th Avenue Room, 4 th Floor)									

Session	TSDB 2	MRS 2	Biomedical Materials and Devices 1	Ceramics 2 (Ceramic Materials for Energy and Environmental Application)	Materials for Energy 2	Polymers 2	Materials Technology for Environment 2	TTA 1	Surface Engineering and Heat Treatment 2	Design & Manufacturing and Computational Science & Engineering 2
Session Chair	Dr.Sani Boonyagul	Assoc.Prof. Pakorn Opaprakasit	Dr. Robert Molloy	Dr. Anucha Wannagon & Dr. Samunya Sanguanpak	Dr. Sumittra Charojrochkul	Assoc.Prof. Cattaleeya Pattamaprom	Dr. Yot Boontongkong	Dr. Sasawat Mahabunphachai	Dr. Tongjai Chookajorn	Dr. Pratarn Wongsarivej
13:00-13:15	The 3 rd Meeting of Thai Society of Dental Biomaterials 13.30 - 16.00 The 1st Annual Meeting of MRS- Thailand "Innovative Materials for Industry 4.0 (Academic Section)"		BIO-I-01 Development of Joint Prosthesis Yoshio Nakashima	CER-I-02 Current Researches on TiO ₂ -based Nanocomposites and Applications Assoc.Prof. Wisanu Pecharapa	ENR-I-01 Development of Metal-supported Solid Oxide Fuel Cell (MS-SOFC) and Thin-film Solid Oxide Fuel Cell in KAIST Prof. Joongmyeon Bae	POL-I-02 Hierarchic Structures and Properties of Natural Rubber Assoc.Prof. Seiichi Kawahara	ENV-I-02 Modified Soil Compositions for Removals of Acetaminophen Assoc.Prof. Thammarat Koottatep	Thai Tribology Association Forum Title "Tribology in Aerospace Parts Manufacturing"	SUR-O-05 Effect of Impingement Angle on Erosion Resistance of HVOF Sprayed WC-10Co-4Cr Coating on CA6NM Steel Anurag Hamilton	DMC-I-02 The Role of Advanced Numerical Simulation in Vehicle Safety Research and Development Assoc.Prof. Julaluk Carmai
13:15-13:30									SUR-O-06 Sintered Metal Microstructure Influenced by Deep Rolling and Carburizing Processes Sai-Yan Primee	
13:30-13:45			BIO-O-03 The Study of ABO-Rh Blood Typing on Reusable Polymeric Chip by Surface Plasmon Resonance Technique Chanwit Kataphiniharn	CER-O-03 Effective Charge Separation and Photocatalytic Activity of Copper Ions -Modified Cerium Dioxide Nanoparticles Duangdao Channei	ENR-O-05 Pre-Immobilization of Anaerobic Mixed Culture on Electrode of the Upflow Bio-Filter Circuit Microbial Fuel Cell Chinnatad Sinprasertchok	POL-O-03 Effect of Poly(hexamethylene succinamide) on Crystallization of Poly(L-lactic acid) Panadda Yueagyen	ENV-I-03 Practical Method for Bentonite Recovery from Foundry Sand Dust Asst.Prof. Pichaya Rachdawong		SUR-O-10 Structural Characterization of Reactive DC Magnetron Co-Sputtered Nanocrystalline CrAlN Thin Film Amonrat Khambun	DMC-O-03 Finite Element Analysis of the Impact Test of Alloy Wheels Somboon Otarawanna
13:45-14:00			BIO-O-04 Preparation and Characterization of Artificial Nerve Guidance Conduits Based on Polycaprolactone/ Polyaniline/ Collagen Type 1 Composite Nanofibers Using Rat Sciatic Nerve Injury Model Christina Binag	CER-O-04 Photocatalytic Degradation Study of Titania Sol-gel Coated on Commercial Unglazed Ceramics Tiles Pat Sooksaen	ENR-O-06 Studies on CeP ₂ O ₇ -ZrP ₂ O ₇ Solid Solutions: Electrolytes for Intermediate Temperature Proton-Conducting Ceramic-Electrolyte Fuel Cells (IT-PCFC) Aman Bhardwaj	POL-O-04 Effect of Poly (D-lactic acid)-co-Polyethylene glycol on Crystallization of Poly (L-lactic acid) Ployrawee Kaewlamyai			SUR-O-11 Hardfacing of 3.5% Chromium Cast Steel by Flux Cored Wire Arc Welding Process Teerachod Treeparee	DMC-O-04 The Pretensioning Value and the Mode of Failure on the Friction High Quality Bolt Connections Anis Rosyidah
14:00-14:15			CER-O-05 Development of Infrared Reflective Black Pigment Pattana Rakkwamsuk	ENR-O-07 Experimental Investigation of Electro spray Coating Technique for Electrode Fabrication in PEMFCs Natthika Chingthamai	POL-O-05 Morphology and Properties of Polyoxymethylene/Polypropylene/Microcrystalline Cellulose Composites Nipawan Yasumlee	ENV-O-03 Preparation, Characterization, and Photocatalytic Properties of rGO-TiO ₂ -Rubber Composite Sheets for Dye Decomposition in Wastewater Worapol Tejangkura	14:00-15:00 Thai Tribology Association Panel Discussion: "How to Integrate Existing Technology to Develop Aerospace Products"		SUR-O-12 Study on Friction Characteristics of Nano Filler for Friction Material Ratchanon Chamnipan	DMC-O-05 Design and Construction of a Restoring Force Measuring Apparatus for Assessment of Internal Stress Within Kiln-dried Lumber Sataporn Jantawee
14:15-14:30			ENR-O-08 BaO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ Glass-Ceramic SOFCs Sealant: Effect of ZnO Additive Jiratchaya Ayawanna	POL-O-06 Poly(lactic acid)-Polybutylene Succinate-Activated Carbon Composite Foams Kittimasak Ketkul	ENV-O-04 Fabrication Study of Hydrophobic Polyurethane Sponge for Oil-Spills Cleanup Peeranut Prakulpanong	SUR-O-13 Surface Modified Sterling Silver using Nitrogen Ion Implantation Technique Benya Cherdhirunkorn			DMC-O-06 Formability Characterization of Advanced High Strength Steel Sheet by using Fukui Stretch-Drawing and Square Cup Drawing Tests Sansot Panich	
14:30-16:00	Break & Poster Session I									

Session		MRS 3	Biomedical Materials and Devices 2	Ceramics 3 (Electroceramics)	Materials for Energy 3	Polymers 3	Materials Technology for Environment 3	TTA 2	Design & Manufacturing and Computational Science & Engineering 3		
Session Chair			Dr. Boriphath Methachan & Dr. Pacharapan Sonthithai	Dr. Natthaphon Raengthon	Dr. Pimpa Limthongkul	Asst.Prof. Somsak Dangtip	Dr. Noramon Intaranont		Dr. Somboon Otarawanna		
16:00-16:15		The 1 st Meeting of MRS- Thailand Annual Meeting (Closed Session)	BIO-O-05 Biological Responses of Porcine Chondrocytes and Human Bone Marrow Mesenchymal Stem Cells on Porous PCL/PHBV Blended Scaffolds Pakkanun Kaewkong	CER-I-03 Exploration of Electronic Properties in "Materials Beyond Graphene": Transition Metal Dichalcogenides Asst.Prof. Worawat Meevasana	ENR-O-09 Investigation of Electronic Conductivity of Co-Doped LiFePO ₄ Material for Lithium Ion Batteries by Impedance Spectroscopy Technique Phongsit Krabao	POL-O-08 Numerical Simulations of Geometric Extrudate Swelling in Polymer Melt Extrusion Using Arbitrary Lagrangian Eulerian (ALE) Based Finite Element Method on Free Surface Mongkol Kaewbumrung	ENV-I-04 Experience in Sustainable Development through Textile Material Developing for the Community Enterprises (OTOPs) in Thailand Pilan Dhammongkol	Thai Tribology Association Annual Meeting (Closed Session)	DMC-O-08 Effect of Feed-flow Rate on Solid-liquid Hydrocyclone based on Novel Separation Efficiency Equation Pichai Soison		
16:15-16:30	BIO-O-06 In Vitro Study of Biological Response by Human Gingival Fibroblast on Silk Fibroin/Alpha Tricalcium Phosphate Composite Scaffolds : A Preliminary Study Woradej Pichaiaukrit		ENR-O-10 Synthesis, Structure, and Ionic Conductivity of Lithium-Strontium Aluminum/Gallium-Tantalum-Oxides with Perovskite Structure Thanaya Phraewphiphat	POL-O-09 Preparation of TO ₂ /WO ₃ Composite Nanofiber by Electrospinning Patthamapa Chakornpradit	DMC-O-09 Development of Regression Model of <i>Stk₅₀Eu</i> for Hydrocyclone Pakpoom Supachart						
16:30-16:45	BIO-O-07 Novel Biodegradable Copolymers of Glycerol Sebacate and Amino Acid for Cartilage Tissue Regeneration Piyarat Sungkhaphan		CER-O-06 Actuators Based on Bidomain Ferroelectric Crystals: Fabrication and Application Ilya Kubasov	ENR-O-11 Multi-walled Carbon Nanotubes (MWCNTs) on a Metal Substrate with Quantum Dots in Photovoltaics Udorn Junthorn	POL-O-10 Silane Modified-WO ₃ for Improving Photochromic Properties of PC/WO ₃ Composite Films Tanes Sangpraserdasuk	ENV-O-05 A Feasibility Study of using Biofilter Media made from Biomass Ash for Nitrogen Compound Removal in Aquaculture Tahmina Sultana	DMC-O-10 Development and Characterizations of a Projection Stereolithography Thossaporn Kaewwichit				
16:45-17:00	BIO-O-08 Studies on Effect of CuO on Mechanical Properties and in vitro Performance in 13–93 Bioactive Glass Scaffolds Akher Ali		CER-O-07 Effects of Aluminium Concentrations and Consolidation Techniques on Composition, Microstructure and Dielectric Properties of Strontium Titanate Jednupong Palomas	ENR-O-13 Synthesis of Novel Ternary Semiconductor-Silver Bismuth Telluride for Solar Cell Application Patamaporn Termsaithong	POL-O-11 Effect of Silicon Carbide on Thermal and Mechanical Properties of Polypropylene Composites Watthanaphon Cheewawuttipong	ENV-O-02 On the Application of Electrocoagulation/Flotation (ECF) Technique for Cationic Dye Removal using Aluminium Electrode and Sodium Dodecyl Sulfate (SDS) Galuh Yuliani	DMC-O-11 Effect of Post-curing Temperature and Mechanical Surface Treatment on Shear-bond Strength of Asbestos-free Brake Pad Danuwat Pupan				
17:00-17:15	BIO-O-09 Surface-modified PLGA Particles that Protect Against Myocardial Cell Death Amaraporn Wongrakpanich		CER-O-08 Effects of Ball Milling on the Properties of (Ba _{1-x} Ca _x)(Ti _{0.92} Sn _{0.08})O ₃ Lead-Free Ceramics Onchuda Wattanapradit	ENR-O-14 Silica and Activated Carbon Nanocomposite from Rice Husks for Lithium Ion Batteries Yutthanakon Kanaphan	POL-O-12 Enhancement of Dielectric β-phase PVDF Piezoelectric Composite by Base Modified Surface Activated Carbon Nanofiller Saiwan Nawalertpanya	ENV-O-07 Adsorptive and Acid Properties of Zeolite; Effects of Synthesize Methods Galuh Yuliani	DMC-O-07 Effect of an Anisotropic Hyperelastic Model on Blood Flow Pattern in a Small vessel with Stenosis Mongkol Kaewbumrung				
17:15-17:30					POL-O-15 Medicated Pressure Sensitive Adhesive Patches from STR-5L Block Rubber: Effect of Preparing Process Rungtiwa Waiprib	ENV-O-08 Removal of Arsenic from Groundwater using Nano-Metal Oxide Adsorbents Phitchaya Muensri					
17:30-18:00	Poster Session II										
18:00-20:00	Banquet (4 th Avenue Room, 4 th Floor)										

Day II		December 15 th , 2016							
08:00-09:00	Registration (Foyer Area, 2 nd Floor)								
Room	Le Concorde Room (2 nd Floor)								
09:00-09:45	Plenary Lecture 3: 2D Materials: Technology, Standards and Science <i>by Prof. Antonio Castro Neto</i>								
09:45-10:30	Plenary Lecture 4: Advanced Electron Microscopy and Spectroscopy for Materials Research and Development <i>by Prof. Supapan Seraphin</i>								
10:30-10:45	Break								
Room	Jamjuree	Krisana	Sakthong		Rachavadee	Patumchard	Ubonchard	Satabud	
Floor	2 nd Floor	2 nd Floor	2 nd Floor		2 nd Floor	3 rd Floor	3 rd Floor	3 rd Floor	
Session	Biomedical Materials and Devices 3	Ceramics 4 (Geopolymers)	Materials for Energy 4		Materials Technology for Environment 4	Metals, Alloys & Intermetallic Compounds 2 (Powder Metallurgy I)	TCMA	Advanced Materials Testing and Characterization 1	
Session Chair	Dr. Jintamai Suwanprateeb & Dr. Katanchalee Mai-ngam	Prof. Cristina Leonelli	Dr. Yatika Somrang		Narueporn Vaneesorn	Dr. Dhriti Tanprayoon	Dr. Namurata Sathirachinda Palsson	Dr. Chanchana Thanachayanont	
10:45-11:00	BIO-O-11 Comparison of the Release of Aloe Vera Extracts from Poly(vinyl alcohol) Electrospun Fibers and Hydrogel Films for Wound Healing Applications <i>Sutasinee Sirima</i>	CER-I-05 Geopolymer from Industrial Wastes and its Applications <i>Asst.Prof. Sirithan Jiemsirilers</i>	ENR-O-15 Zeolite Supported Bimetallic Catalyst System: The Effect of Metal Loading For Catalytic Pyrolysis of Jatropa Residue <i>Viturch Goodwin</i>		ENV-I-05 Quality Drying of Lumber: From Laboratory to Industry <i>Asst.Prof. Nirudorn Matan</i>	MET-O-05 Sintered Dual-phase Steels with Different Alloy Compositions <i>Monnapas Morakotjinda</i>	Thai Corrosion of Metal and Materials Association Forum	ADV-I-01 Electron Microscopy Investigation of Nanocomposites Between Metal/alloy and N-rGO for Renewable Energy Applications <i>Assoc.Prof. Thapanee Sarakonsri</i>	
11:00-11:15	BIO-O-13 Fluoride Recharge Ability of Resin-based Pit and Fissure Sealant with Synthesized Mesoporous Silica Filler <i>Atikom Surintanasarn</i>		ENR-O-16 Two States Combustion Burner Using Used Engine Oil as Fuel <i>Taveesin Lekpradit</i>			MET-O-06 Widmanstätten Ferrite in Fast-Cooled Ultralow Carbon Fe-Cr-Mo Steel <i>Ruangdaj Tongstri</i>		ADV-I-02 Structure-property Relationship of Polymeric Materials Studied by Electron Tomography <i>Prof. Hiroshi Jinnai</i>	
11:15-11:30	BIO-O-14 Factors Influencing the Deposition of Biomimetic Calcium Phosphate on 3D Printed Hydroxyapatite Substrate <i>Faungchat Thammarakcharoen</i>	CER-O-15 Improvement of Compressive Strength and Thermal Shock Resistance of Fly Ash-Based Geopolymer Composites <i>Patthamaporn Timakul</i>	ENR-O-17 Copper Doped Zinc Oxide: A Promising Material for Biogas Desulfurization <i>Kannasoot Kanokkanchana</i>		ENV-O-09 Dowel Bearing Strength of Rubberwood <i>Raphaela Hellmayr</i>	MET-O-07 Interaction between Recrystallization and Phase Transformation during Hot Squeezing of Sintered Dual-phase Fe-Cr-Mo-C Steels <i>Bhanu Vetayanugul</i>			
11:30-11:45		CER-O-16 Synthesis and Properties of Geopolymers from Two Different Power Plants Bottom Ash in Thailand <i>Anucha Wannagon</i>	ENR-O-18 Porous Carbon-doped TiO ₂ on TiC Nanostructures for Co-catalyst Free Photocatalytic Hydrogen Production under Visible Light <i>Jiaqian Qin</i>		ENV-O-10 Assessment of Hydrophilic Biochar Effect on Sandy Soil Water Retention <i>Ramida Rattanakam</i>	MET-O-08 Dynamic Recrystallization and Cr ₂ O ₃ Pinning Effect during Hot Squeezing of Sintered Ultralow Carbon Fe-Cr-Mo Steels <i>Amornsak Rengsomboon</i>			
11:45-12:00					ENV-O-11 Preparation of Activated Carbon from Sugarcane Bagasse Waste for the Adsorption Equilibrium and Kinetics of Basic Dye <i>Tawan Chaiwon</i>			ADV-O-01 Investigation of Stripe Emitter Area (Ae) on the design on Heterojunction Bipolar Transistor Silicon-Germanium (SiGe-HBT) <i>Tossin Alamsyah</i>	
12:00-12:15								ADV-O-03 Fe K-edge and Ti K-edge XAS Study of Blue Sapphires <i>Nirawat Thammajak</i>	
12:15-13:00	Lunch (4 th Avenue Room, 4 th Floor)								

Session		Ceramics 5 (Novel Synthesis and Solid State Materials)		Materials Technology for Environment 5	Metals, Alloys & Intermetallic Compounds 3 (Non-ferrous: Sintering and Casting)	Corrosion
Session Chair		Dr. Sorachon Yoriya		Dr. Noramon Intaranont	Dr. Chakkrist Phongphisutthinan	Dr. Pitichon Klomjit
13:00-13:15		CER-I-04 Engineering Hybrid Nanocapsules for Multifunctional Applications in Bioimaging Prof. John Wang		ENV-I-01 Design of Metal Oxide Nanostructured Materials for Enhanced Photocatalytic Energy & Environmental Sustainability Assoc.Prof. Ho Ghim Wei	MET-O-09 Understanding the Microstructural Features in High-Pressure Die Castings by Analogy with Granular Materials and Suspensions Somboon Otarawanna	COR-O-01 Characteristics of Internal Oxide Scale of T91 Superheater Tube after 1000h Exposure to Steam Temperature at 605°C Suraya Nadzir
13:15-13:30					MET-O-10 The Effect of Bottom Ash Additions on the Properties of Sintered Bronze-Graphite Composites Usanee Pantulap	COR-O-03 The Role of Al-Mn Intermetallics on the Corrosion of AZ31 Magnesium Alloy Somi Doja
13:30-13:45		CER-O-09 Photocatalytic Comparative Study of TiO ₂ , ZnO, Ag-G-ZnO and Ag-G-TiO ₂ Nanocomposite Films: Biomaterial Applications Phuri Kalnaowakul		ENV-O-12 Effect of Cell Wall Constituents On Internal Stress Generation During Drying of Lumber Prepared From Rubber Tree Trunks Jaipet Tomad	MET-O-11 Properties of Sintered Bronze-Graphite Containing Natural Anhydrite Chiraporn Auechalitanukul	COR-O-04 Corrosion Behavior of Al- Zn-In Sacrificial Anode Alloys Produced by Conventional Casting and Semi-Solid Metal Processing Processes Chanika Puridetvorakul
13:45-14:00		CER-O-10 Development of Water Assisted Solid State Reaction for the Ceramic Materials Kenji Toda		ENV-O-13 Improvement of Compressive Strength of Soil by Using Jute Fiber Waste Md. Bayezid Islam	MET-O-12 Mechanical Properties of As-Exposed Al-SiCp Composite Fabricated by Powder Injection Moulding Tapany Patcharawit	COR-O-05 Development of Pitting Corrosion Monitoring Method by Saline Solution Droplet under Wet-Dry Cycles Wongpat Banthukul
14:00-14:15		CER-O-11 Effect of Particle Size Distribution on the Sinterability of Cerium (IV) Oxide using Spark Plasma Sintering Anil Prasad		Break	MET-O-13 Effect of Aluminum Addition on Al _x CoFeMnNiZn Multi- Component Production Amnart Suksamran	COR-O-06 Failure Analysis of Protection Tube of a Temperature Element in a Sulfiding Environment Siriwan Ouampan
14:15-14:30		CER-O-21 Optimum Partial Replacement of Cement by Nanosilica, Microsilica and Rice Husk Ash for Mass Production of Concrete Winai Ouypornprasert			MET-O-14 Effect of Si Content on Mechanical Properties of Ti-Si-N Ternary Alloys Prepared by Spark Plasma Sintering Patcharawat Khemglad	COR-O-07 Effect of Cr Content on the Passivation Layer Properties of Tinplate Steel Kosit Wongpinkaw
14:30-14:45		Break			Break	

Session		Ceramics 6 (Glass, Film and Coating)			Metals, Alloys & Intermetallic Compounds 4 (Powder Metallurgy II)	Metals, Alloys & Intermetallic Compounds 5 (Welding, Soldering, and Evaluation)	
Session Chair		Prof. John Wang			Bhanu Vetayanugul	Dr. Sinthu Chanthapan	
14:45-15:00		CER-O-17 Synthesis of Silicon-Carbon Films by High-Frequency Deposition Alexander Temirov			MET-O-15 Role of SiC in Sintered Fe-Mo-Si-C Steels Thanyaporn Yotkaew	MET-O-22 Improvement of Semi-Solid State Joining of SSM Aluminum Alloys Patsapon Binrohim	
15:00-15:15		CER-O-18 Effects of Buffer Layer Growth Temperature on Micro-structures in the Cubic GaN Films Grown on GaAs (001) Substrates by MOVPE Pornsiri Wanarattikan			MET-O-16 Effect of SiC Particle Size on Sintered Fe-Mo-Si-C Steels Pongsak Wila	MET-O-23 Fastenerless-Riveting Utilizing Friction Stir Forming for Dissimilar Materials Joining Takahiro Ohashi	
15:15-15:30		CER-O-19 Thermal Diffusivity of a Waterproof Glaze Layer of Clay Roof Tile Investigated by Mirage Effect Tanawut Rittidach			MET-O-17 Retained Austenite in Sintered Bainitic Fe-Mo-Si-C Steels Dhritti Tanprayoon	MET-O-24 Quantitative Evaluation of Hot Cracking Susceptibility of MGS6 GZ-60 Hardfacing Weld Metal Based on High Temperature Ductility Curve Rittichai Phaoniam	
15:30-15:45		CER-O-20 The Effect of Zirconium Oxide on Properties and Crystallization of Soda-lime Silicate Glass Ekarat Meechoowas			MET-O-18 Modification of Microstructure and Tensile Property of Sintered Fe-Cr-Mo-C Steel by Nickel Addition Nattaya Tosangthum	MET-O-25 Phase Equilibria and Thermodynamic Properties of the Ag-Bi-Cu-Sn Pb-free solder calculated by CALPHAD Approach Wojciech Gierlotka	
15:45-16:00		CER-O-14 Development of Metakaolin Based Geopolymers for Bone Graft Application Sarochapat Sutikulsoombat			MET-O-19 Combination Effects of Nickel and Graphite on Sintered Fe-Mo + SiC Alloy Rungtip Krataitong	MET-O-26 The Investigation of Attenuation in AISI 316 Stainless Steel Weld for Ultrasonic Testing Mai Noipitak	
16:00-16:15					MET-O-20 Wear Properties of Sintered Fe-Mo-Si-C Steels with Spheroidal Graphite Iron/Compacted Graphite Iron-like Microstructures Kittikhun Ruangchai	MET-O-27 Effect of Cooling Rate on the Microstructural and Mechanical Properties of Sn-0.3Ag-0.7Cu-0.05Ni Solder Alloy Kogaew Inkong	
16:15-16:30					MET-O-21 Characterization of Sintered Fe-Mo + SiC + H-BN Alloy Ussadawut Patakham	MET-O-28 The Thermal-Aging Effect on the Microstructure Evolution and Shear Strength of the Sn-Rich Au-Sn Soldering between AlTiC and Si Substrate in Microelectronics Panaeek Athichalinthorn	

Technical Meeting on Environmental Issues (Closed Session)