

# EARTH 2011 International Symposium

## Program Schedule

Time	Oct. 31 Monday	Nov. 1 Tuesday	Nov. 2 Wednesday			Nov. 3 Thursday	Nov. 4 Friday	
8:30~9:00		Check in	Check in			Post conference Tours	Post conference Tours	
9:00~10:30		Opening ceremony & Plenary lectures	Oral presentation Section C (Rooms1~5)					
10:30~10:40		Coffee break	Coffee break					
10:40~12:00		Plenary lectures	Oral presentation Section D (Rooms1~5)					
12:00~13:00		Lunch	Lunch					
13:00~14:30	Registration & Special lecture (16:00~ 17:50)	Oral presentation Section A (Rooms1~5)	Oral presentation Section E (Rooms1~5)					
14:30~15:00		Coffee break	Coffee break					
15:00~16:30		Oral presentation Section B (Rooms1~5)	Oral presentation Section F (Rooms1~5)					
16:30~17:50		Poster presentation	Panel discussion 1	Poster presentation	Panel discussion 2			Panel discussion 3 (16:00~17:30)
18:00~21:00		Welcome party	International Organization Committee meeting	Banquet				

## Location

Date	Time	Circuit	Floor	Venue
Oct. 31 <sup>st</sup> ~Nov. 2 <sup>nd</sup>	Oct 31 <sup>st</sup> ~Nov 1 <sup>st</sup>	Registration	39F	Lobby
Oct. 31 <sup>st</sup>	16:00~17:50	Special lecture	45F	The Dawn
	18:00~21:00	Welcome party	45F	The Cosmos
Nov. 1 <sup>st</sup>	09:00~12:00	Plenary lecture	41F	The Diamond II
	12:00~13:00	Lunch	39F	The BRASSERIE ( European Buffet)
	13:00~16:30	Oral Presentation	42F	Room 1:The AMBER Room 2:The CORAL Room 3:The CRYSTAL Room 4:The ALEXANDRITE Room 5:The PEARL Saloon: The AGATE
	16:30~17:50	Panel Discussion 1	41F	The Diamond I
	16:30~17:50	Post Presentation	41F	The space front the Diamond I
	18:00~21:00	IOC Meeting & dinner	43F	The Lily
Nov. 2 <sup>nd</sup>	09:00~16:30	Oral presentation	42F	Room 1:The AMBER Room 2:The CORAL Room 3:The CRYSTAL Room 4:The ALEXANDRITE Room 5:The PEARL Saloon: The AGATE
	12:00~13:00	Lunch	39F	The BRASSERIE ( European Buffet)
	16:30~17:50	Panel discussion 2	41F	The Diamond I
	16:00~17:50	Panel discussion 3	41F	The Diamond III
	16:30~17:50	Post presentation	41F	The space front the Diamond I
	18:00~21:00	Banquet	41F	The Diamond II

## Topics

T1. Recycling Policy and Management

T2. Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater

T3. Recycling Technology on Electrical and Electronic Wastes

T4. Recycling Technology on General Wastes : Paper, Plastic, Glass, Rubber, End-Life Vehicles, and Other Living Wastes

T5. Technology on Waste Minimization and Energy Conservation

T6. Technology on Waste to Energy

T7. Technology on Soil Remediation and Restoration

T8. Environment Protection and Other Related Issues

### Time & Oral Rooms for Each Topic

Topic	Total Room amount	Section A	Section B	Section C	Section D	Section E	Section F
		Nov 1 <sup>st</sup> 13:00~14:30	Nov 1 <sup>st</sup> 15:00~16:30	Nov 2 <sup>nd</sup> 8:30~10:00	Nov 2 <sup>nd</sup> 10:30~12:00	Nov 2 <sup>nd</sup> 13:00~14:30	Nov 2 <sup>nd</sup> 15:00~16:30
T1	2			Room 4	Room 4		
T2	14	Room 1 Room 2	Room 1 Room 2	Room 1 Room 2 Room 3	Room 1 Room 2	Room 1 Room 2 Room 3	Room 1 Room 2
T3	3	Room 3	Room 3		Room 3		
T4	3				Room 5	Room 5	Room 5
T5	2	Room 4	Room 4				
T6	1						Room 4
T7	2	Room 5	Room 5				
T8	3			Room 5		Room 4	Room 3

**Monday, Oct 31<sup>st</sup>, 2011**

<b>16:00-17:50</b>	
<b>Special Lecture</b>	
1	<b>Present Status of the Disaster Waste Management after the Great East Japan Earthquake in Sendai</b> Toshiaki Yoshioka, Tohoku University

**Tuesday, Nov 1<sup>st</sup>, 2011**

<b>09:00-10:30</b>	
<b>Opening Ceremony &amp; Plenary Lectures</b>	
1	<b>Utilization and Development of Lithium and Cobalt In China</b> Jinhui Li, Tsinghua University
2	<b>XRT and XRF Sorting for the Mutual Separation of Aluminum Alloys to Achieve “Sash to Sash” Recycling</b> Shuji Owada, Waseda University
<b>10:40-12:00</b>	
<b>Plenary Lectures</b>	
3	<b>A Sustainable Solution to Municipal Solid Waste to Energy in Korea</b> Woo Zin Choi, The University of Suwon
4	<b>Resource Recycling and Waste Utility in Taiwan</b> Tzi-Chin Chang, Environmental Protection Administration
<b>Section A: 13:00~14:30</b>	
<b>Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Yunnan Chen, Jiangxi University of Science and Technology Tung-Chin Kung, National Cheng Kung University, Sustainable Environment Research Center	
1	<b>Industrial Experimental Study on Reducing-Matting Smelting for Harmless Treating the Waste Containing Lead in Blast Furnace</b> Mo-Tang Tang, Chao-Bo Tang, Yong-Ming Chen, Sheng-Hai Yang, Jian-Guang Yang, Jing He, Jun-Le Lu, College of Metallurgical Science and Engineering, CSU.
2	<b>A Study on Development Low Carbon Dioxide Emission Geopolymeric Green Cement</b> S.A. Chen, H.S. Ko, T.W. Cheng, M.S. Ko, National Taipei University of Technology
3	<b>Current Status on the Domestic Recycling of Magnesium Scraps</b> Hyungkyu Park, Korea Institute of Geoscience and Mineral Resources (KIGAM) Mincheol Kang, Korea Magnesium Technology Research Association
4	<b>Development of Shredder Dust Recycling Process Using a Gasification Melting Furnace</b> Yuichi Ikuta, Jyuichi Yoneda, JX Nippon Mikkaichi Recycle Co., LIT. Yoshitsugu Miyabayashi, JX Nippon Mining & Metals Corporation
<b>Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Fumitaka Tsukihashi, The University of Tokyo Shao-Hua Hu, Dahan Institute of Technology	
1	<b>Separation of Zinc and Lead from EAF Dust by Bromination-evaporation Process</b> Mariusz Grabda, Sylwia Oleszek, Polish Academy of Sciences Etsuro Shibata, Takashi Nakamura, Tohoku University
2	<b>Pyro-Metallurgical Processes for Resource Recycling of Steel Mill Dust</b> Juergen Ruetten, ValoRes GmbH; Karlheinz Paessler, Nuesser Ingenieures. mbH Kenneth Fang, Mark Lin, Taiwan Steel Union Co. Ltd
3	<b>Different Operation Modes of a Waelz Process for Recycling of EAF Dust</b> Karlheinz Paessler, Nuesser Ingenieures. mbH; Juergen Ruetten, ValoRes GmbH Kenneth Fang, Mark Lin, Taiwan Steel Union Co. Ltd
4	<b>New Waelz Process for Recycling of EAF Dust in Taiwan</b> Kenneth Fang, Mark Lin, Taiwan Steel Union Co. Ltd; Juergen Ruetten, ValoRes GmbH Karlheinz Paessler, Nuesser Ingenieures. mbH
5	<b>Preparation and Characterization of Geopolymer cement from Waste Cement Powder</b> Teruhisa Hongo, Kan Igarashi, Yuka Sakai, Akihiro Yamasaki, Seikei University Atushi Iizuka, Tohoku University

<b>Room 3 / T3: Recycling Technology on Electrical and Electronic Wastes</b>	
<b>Chairman:</b> Minkang Tang, Jiangxi University of Science and Technology Hee Chan Cho, Seoul National University	
1	<b>Selective Precipitation of Mn from Ternary Cathodic Material of Spent Lithium Ion Battery Using Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub></b> Sungho Joo, ShunMyung Shin, Korea University of Science & Technology(UST) Jingu Kang, Jeongsoo Sohn, Hankwon Chang, Korea Institute of Geoscience & Mineral Resources (KIGAM)
2	<b>Recovery of Cobalt from the Leached Co/Ni/Li Solutions by Solvent Extraction and Electrowinning</b> Jae-Woo Ahn, Daejin University Ki-Woong Lee, Hong-In Kim, Hyun-Tae Son, Kang-Myung Yi, Sung Eel Hitech Co., LTD. Seong-Ho Son, Jae-Hoon Lee, Korea Institute of Industrial Technology
3	<b>Leaching of Neodymium from Nd-Fe-B Magnet</b> Ching-Hwa Lee, Yu-Jung Chen, Ching-Hua Liao, Chi-En Hung, DAYEH University Shang-Lin Tsai, Yung Yuan Chemical Materials Crop Nai-Kuang Tang, Chuan-Jen Hsu, Metal Industries Research & Development Centre
4	<b>Concentration Behavior of Rare Metals in the E-wastes by Combining Brand New Comminution and Physical Separation Technologies</b> Chikako Koga, Takamasa Komuro, Shuji Owada, Chiharu Tokoro, Waseda University
5	<b>Study of Recovering Process from Waste PV Modules by Etching Treatment</b> Suk-Min Kang, Sungyeol Yoo, Jina Lee, Bal Chandra Yadav, Hojin Ryu, Korea Research Institute of Chemical Technology Bonghyun Boo, Chungnam National University
<b>Room 4 / T5: Technology on Waste Minimization and Energy Conservation</b>	
<b>Chairman:</b> Junji Shibata, Kansai University Shan-Shin Ton, Feng-Chia University	
1	<b>A Framework to Assess the Performance of WEEE Recycling Approaches</b> Jih-Lin Lee, Recycling Fund Management Board; Chun-hsu Lin, Chung-Hua Institution for Economic Research
2	<b>Estimation of Various Crushing Methods for Construction Wastes Recycling</b> Toyohisa Fujita, Gjergj Dodbiba, The University of Tokyo; Kenji Murata, Nippon koki, Co., Ltd.
3	<b>Industrial Energy Saving and Carbon Reduction Measures and Results in Taiwan</b> Chih-Hsiung Tseng, Liang-Dong Chen, Industrial Development Bureau Yi-Hua Tang, and Szu-Chieh Chen, Foundation of Taiwan Industrial Service
4	<b>Preparation of Activated Waste Carbon Fibers to Remove Aqueous Bisphenol A</b> Cheng-Chun He, Chao-Yin Kuo, Jian-Che Li, National Yunlin University of Science & Technology
<b>Room 5 / T7: Technology on Soil Remediation and Restoration</b>	
<b>Chairman:</b> Xuejun Ye, Jiangxi University of Science and Technology Zhihui Yang, School of Metallurgical Science and Engineering, Central South University	
1	<b>Applying Iron-doped Compost Samples for Removing Arsenite from Solution</b> Lo Tsui, Zheng-Ping Lin, Ming Chi University of Technology
2	<b>Enhanced Bioelectrokinetics for Removal of As and Heavy Metals from Contaminated Soil</b> Hyun-A Kim, Ju-Yong Kim, Byung-Tae Lee, Kyoung-Woong Kim, Gwangju Institute of Science and Technology (GIST); Keun-Young Lee, Korea Atomic Energy Research Institute (KAERI)
3	<b>Feasibility Study on Arsenic Stabilization Using Mine Sludge</b> Myoung-Soo Ko, Ju-Yong Kim, Kyoung-Woong Kim, Gwangju Institute of Science and Technology (GIST) Jin-Soo Lee, Ju-In Ko, Mine Reclamation Corporation(MIRECO)
4	<b>Research on the Countermeasures of Second Mine Exploitation</b> Tang Minkang Zhouyue, Jiangxi University of Science and Technology
<b>Section B: 15:00~16:30</b>	
<b>Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Takashi Nakamura, Tohoku University Ching-Hwa Lee, DA-YEH university	
1	<b>Utilization of Light Aggregate from MSW Incinerator Ash</b> Huang-Mu Lo, Hsun-Ying Chiu, You-Ru Chen, Tzu-Wei Chao, Hung-Yu Wu, Da-Wei Liou, Chaoyang University of Technology
2	<b>Separation of Ultrafine Particles of Alumina and Zircon by Liquid-Liquid Extraction Using Kerosine as the Oil Phase and Sodium Dodecylsulfate as the Surfactant Collector</b> Li Pang Wang, Yoshihiro Kanemitsu, Gjergj Dodbiba, Toyohisa Fujita, Yozo Oya, Hideki Yokoyama, The University of

	Tokyo
3	<b>Characterization of Removal Mechanism for aluminum hydroxide co-precipitation treatment in wastewater containing dilute florine.</b> Daisuke Haraguchi, Chiharu Tokoro, Shuji Owada, Waseda University
4	<b>Characteristics of Synthetic Aggregates with Paper Sludge at Lower Co-melting Temperature</b> Shao-Hua Hu, Sheng-Fong Sie, Dahan Institute of Tech. Shen-Chih Hu, Yen-Pei Fu, National Dong Hwa University
5	<b>Synthesis of Ion Exchange Resins for the Adsorption of Uranium</b> Sul-Ki Park, In-Sung Hwang, Dong-Hyuk Han, Choon Han, Kwangwoon University Jin-Young Lee, Ho-Sung Yoon, Joon-soo Kim, Korea Institute of Geoscience and Mineral Resources
<b>Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Mikiya Tanaka, AIST Yongming Chen, Central South University	
1	<b>Influence of Field Compaction Mode on Asphalt Mixture Concrete with Basic Oxygen Furnace Slag</b> L.S. Huang, Shu-Te University; H.L. Luo, D.F. Lin, I-Shou University; Ping-Chuang Lin, CHC Resources Corporation
2	<b>Conversion of Sugarcane Baggase into Valuable Chemicals using Hydrothermal Treatment</b> Dewi Agustina Iryani, Satoshi KUMAGAI, Keiko SASAKI, Tsuyoshi HIRAJIMA, Kyushu University
3	<b>Adsorption of Phosphate from Aqueous Solution by Magnetite Modified with Diethylenetriamine</b> Ya-Fen Lin, Shu-Han Chang, Chyow-San Chiou, National I-Lan University Hua-Wei Chen, St. Mary's Medicine Nursing and Management College
4	<b>Electrochemical Regeneration of Activated Carbon Used in the Three-dimensional Electrode Reactor</b> Xiang-yu You, Li-yuan Chai, Yun-yan Wang, Yu-de Shu, Central South University Shuo Li, China Machinery International Engineering Design & Research Institute Co., Ltd
<b>Room 3 / T3: Recycling Technology on Electrical and Electronic Wastes</b>	
<b>Chairman:</b> Xianping Luo, Jiangxi University of Science and Technology Chun-Hsu Lin, Chung-Hua Institution for Economic Research	
1	<b>Economic Evaluation about Waste Acid and Alkali Solutions Recycling Potential Considering Uncertainty in the Eco-industrial Parks</b> Seok Jung, Gjergj Dodbiba, Toyohisa Fujita, The University of Tokyo
2	<b>Comparing Several Crushing Techniques for Recovering Indium from Obsolete LCDs</b> Gjergj Dodbiba, Hiroki Nagai, Toyohisa Fujita, The University of Tokyo
3	<b>Manganese, Cobalt, Nickel and Lithium Recover from Waste Lithium-Ion Batteries by Hydrometallurgical Process</b> Yosuke Yamaguchi, Toshihiko Yoshimi, Yoshitsugu Miyabayashi, JX Nippon Mining & Metals Corporation
4	<b>Efficient Materials Recycling Technology for end-of-life LCD Displays</b> Kang Ryong Choi, Sung Kyu Lee, Geon Hong Kim, Min Hye Seo, Hang Chul Jung, Sung Su Jo, Hyun Seon Hong, Institute for Advanced Engineering (IAE)
5	<b>Mechanical Separation of precious and valuable metals from waste printed circuit boards (PCBs).</b> Vinod Kumar, Korea Institute of Geoscience & Mineral Resources, National Metallurgical Laboratory (NML) Jae-Chun Lee, Jinki Jeong, Jae-Min Yoo, Bayung-Su Kim, Korea Institute of Geoscience & Mineral Resources
<b>Room 4 / T5: Technology on Waste Minimization and Energy Conservation</b>	
<b>Chairman:</b> Kun-Sen Chang, National United University Xiaobo Min, Central South University	
1	<b>Recycling Process for Municipal Multi-Layer Packaging Film Wastes</b> Young Chul Lee, Hyung Chan Lee, Myeong Jun Kim, Korea Institute of Industrial Technology
2	<b>Preparation of phosphate adsorbent from paper sludge</b> Takaaki Wajima, Kenzo Munakata, Akita University
3	<b>Study on Purification of Mineral Separation Wastewater</b> Xian-Ping Luo, Jun Liu, Yun-Nen Chen, Jiangxi University of Science and Technology
<b>Room 5 / T7: Technology on Soil Remediation and Restoration</b>	
<b>Chairman:</b> Nobuaki Sato, Tohoku University Jae Woo Ahn, Daejin University	
1	<b>A Predictive Model for Acid Mine Drainage from Closed Mines</b> Ryu Koide, Chiharu Tokoro, Waseda University Shinsuke Murakami, The University of Tokyo Tsuyoshi Adachi, Akita University

2	<b>Adsorption of Cr(VI) Anions in Water by Organic Plant Wastes</b> Josiane Ponou, Jungah Kim, Li Pang Wang, Gjergj Dodbiba, Toyohisa Fujita, none left
3	<b>Electrokinetic/Reactive Barrier System for the Treatment of Nitrate in Ground Water</b> Tasuma Suzuki, Mai Moribe, Yukinori Oyama, Masakazu Niinae, Yamaguchi University
4	<b>Liaoning Zhangwu County Dongliujizi Bentonite Characteristics of Mineralization</b> Fu-Rong Zhai, Liaoning Technical University Zhang-Xing Yang, Liangning Bureau of Geological and Mineral Exploration Zhi Wang, Liaoning Province, Geological Survey
<b>16:30~17:50</b>	
<b>Panel discussion 1: Recycling of steelmaking slag</b>	
Chairman: Kuo-Chung Liu, General Manager of Environmental Protection Department, China Steel Corporation	
Panelist: Fumitaka Tsukihashi, The University of Tokyo, Japan Peng Bing, Central South University, China Hee-Chan Cho, Seoul National University, Korea Chun-shyen Huang, China Steel Corporation, Taiwan	

Wednesday, Nov 2<sup>nd</sup>, 2011

Section C: 8:30~10:00

**Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater**

**Chairman:** Man Seung Lee, Mokpo National University  
Hyung Kyu Park, Korea Institute of Geoscience & Mineral Resources

1	<b>Recovery of Valuable Metals from Waste Pb-free Solder</b> Kyoungkeun Yoo, Hongki Park Kwang-suk Lee, Jae-chun Lee, Jinki Jeong, Korea Maritime University; Korea Institute of Geoscience & Mineral Resources (KIGAM)
2	<b>Preparation of Solid Sorbents from Concrete Sludge Containing Ettringite Phase and Its Removal Performances of Borate and Fluoride Ions from Waste Water</b> Yusuke Tsunashima, Yuka Sakai, Teruhisa Hongo, Shigeru Kato, Toshinori Kojima, Akihiro Yamasaki, Seikei University; Atsushi Iizuka, Tohoku University
3	<b>Leaching of Zinc Ferrite in EAF Dust with Sulphuric Acid</b> Yun-Hwei Shen, none left
4	<b>Production of Fly Ash Nanoparticles by Grinding for Use in CO2 Sequestration and Enhanced Oil Recovery</b> Heechan Cho, Daeyang Lee, Dept. of Energy Resources Eng., Seoul National University, Seoul Korea; Chun Huh, Dept. of Petroleum & Geosystem Eng., University of Texas at Austin, Texas, USA

**Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater**

**Chairman:** Man Sik Kong, Institute for Advanced Engineering  
Wu-Jang Huang, National Pingtung University of Science and Technology

1	<b>A Study of Sludge Treatment, Disposal, and Reuse Strategies for Industrial Park WWTPs in Taiwan</b> Yuan-Liang Tai, Ren-Yang Horng, ITRI; Cheng-Wei Yu, Feng-Chi Yen, Industrial Development Bureau
2	<b>Study on Recovery Iron from Zinc Leaching Residues</b> Ji-Ming Wang, Bing Peng, Li-Yuan Chai, Mi Li, Ning Peng, Central South University
3	<b>Extraction of PGMs from Spent Auto Catalyst Using Electro-Generated Chlorine in HCl Solution</b> Arun Kumar Upadhyay, Jae-Chun Lee, Min-Seuk Kim, Doyun Shin, Korea Institute of Geoscience & Mineral Resources; B.D. Pandey, National Metallurgical Laboratory (NML)
4	<b>A Pilot Plant Study of Sludge Minimization in JungLi industrial Park in Taiwan</b> Shing-Der Chen, Shan-Shan Chou, ITRI; Cheng-Wei Yu, Feng-Chi Yen, Industrial Development Bureau

**Room 3 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater**

**Chairman:** Hyun Seon Hong, Institute for Advanced Engineering  
Shuji Owada, Waseda University

1	<b>A Novel Technology of Treating Iron-Containing Dust and Sludge by Rotary Hearth Furnace</b> Daohong Wu, Beijing Shenwu Energy and Environment Technology Corp
2	<b>A Study on The Utilization of Magnetite for the Recovery of Platinum from Chloride Solution</b> Peet Homchuen, Naoki Hiroyoshi, Richard D. Alorro, Hajime Kijitani, Mayumi Ito, Hokkaido University
3	<b>EAF Dust Treatment for High Metal Recovery</b> Tzu-Fu Wu, Tsing-Lian Huang, KATEC Creative Resources Corporation Ryuji Yamaguchi, Michio Nakayama, JP Steel Plantech Co.
4	<b>Stabilization of copper by transforming sludge into aluminate spinel structure</b> Nien-Hsun Li, Shang-Lien Lo, National Taiwan University Ching-Yao Hu, Taipei Medical University
5	<b>The Production of Amorphous MgO from Calcined Dolomite By-Product for Alternative Expansion Agent in Mortar</b> Sung-Eoi Min, Ki-Ung Lee, Keon-Ho Lee, Gi-Hyun Yoon, Hyoung-Woo Lee, Hanil Cement Corp Kye-Hong Cho, Korea Institute of Limestone & Advanced Materials

**Room 4 / T1: Recycling Policy and Management**

**Chairman:** Xianjin Yu, Shandong University of technology  
Kye Hong Cho, Korea Institute of Limestone and Advanced materials

1	<b>Study of Risk Assessment for Battery Waste</b> Tien-Chin Chang Hao-teng Syu, National Taipei University of Technology
2	<b>Evaluation of Hydration Behavior in Calcium Sulfoaluminate (CSA) Produced from Aluminum By-products</b> Kwang-Suk You, Seong-Ho Lee, Sun-Ho Hwang, Ji-Whan Ahn, Korea Institute of Geoscience and Mineral resources (KIGAM) Hyoung-Woo Lee, Ki-Ung Lee, Hanil Cement Corp.
3	<b>The Results of Promoting the Integration of Regional Energy and Resources in Taiwan</b> C.M. Liu, C.Y. Hua, H.H. Wei, Sinotech engineering consultants, LTD.

	F.C Yan, J.S. Tzeng, Industrial Development Bureau
4	<b>The Benefits of the Strategy of R&amp;D Subsidy in the Environmental Science and Technology Parks of Taiwan</b> Hui-Lan Chang, Industrial Technology Research Institute
<b>Room 5 / T8: Environment Protection and Other Related Issues</b>	
<b>Chairman:</b> Kyoung Keun Yoo, Korea Maritime University Shao-Hua Hu, Dahan Institute of Technology	
1	<b>Evaluation of Electrochemical Degradation of 2,4-Dichlorophenol by Thermally Treated Granular Graphite Electrodes</b> Ming-Huan Hung, Zih-You Fu, Ying-Chien Wang, Jiann-Long Chen, Feng Chia University
2	<b>Removal of Arsenic from Water by Chemical Coagulation Coupled with Constant Current</b> Yu-Yun Jhuang, Ying-Chien Wang, Zih-You Fu, Chi-Chao Wu, Jiann-Long Chen, Feng Chia University
3	<b>Energy Conservation of Aggregate Plant in Thailand</b> Somsak Saisinchai, Chulalongkorn University
4	<b>Classification of Nano-Particles Using a Membrane Filter</b> Katsunori Okaya, Gjergj Dodbibba, Toyohisa Fujita, The University of Tokyo
5	<b>Numerical Simulation of Ball Impact Process</b> Naohito Hayashi, Tatsuya Oki, National Institute of Advanced Industrial Science and Technology (AIST) Sergey V. Komarov, Nippon Light Metal Company, Ltd.; Eiki Kasai, Tohoku University
<b>Section D: 10:30~12:00</b>	
<b>Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Liyuan Chai, Central South University Jei Pil Wang, Pukyong National University	
1	<b>Selective Removal of Copper from the Copper Electrolyte with High Content of Impurities by Cyclone Electrowinning</b> Xiaojing Li, Wentang Shi, Xueyi Guo, Central South University
2	<b>Research on Recycling Metals in Silver Separated Residue by Alkaline Smelting</b> Qinghua Tian, Lizhen Cheng, Xueyi Guo, Central South University
3	<b>Utilization of Biomass Fly Ash for Adsorption of Hydrocarbons Contamination in Water</b> Dawan Wiwattanadate, Apinya Nilyong, Jakkapong Sasithorn, Chulalongkorn University
4	<b>Effect of Selected Parameters on the Leaching of Petro Refining Catalysts with HCl</b> Raju Banda, Man Seung Lee, Mokpo National University, Korea Seong Ho Sohn, Korea Institute of Industrial Technology
<b>Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Ta-Wui Cheng, National Taipei University of Technology Lo Tsui, Mingchi University of Technology	
1	<b>The Recovery of Precious Metals from Spent Catalyst – Solar Applied Materials Experience</b> Ye Kang Chuang, Alex Jeng, Chii-Feng Huang, Solar Applied Materials Technology Corp.
2	<b>Utilization and Recovery of Valuable Metals from Typical Nonferrous Metal Secondary Resources in China</b> Guo Xueyi, Central South University
3	<b>Recycling of Smelting Slag from Cobalt ore Concentrate by Slag Atomizing Process</b> Jeongsoo Sohn, Jingu Kang, Cheolwoo Nam, Kyungho Park, Sookyung Kim, Shunmyung Shin, DonghyoYan, Korea Institute of Geoscience & Mineral Resources (KIGAM)
4	<b>Mass Production of Graphene-like Materials from Plant Wastes</b> Yan-Jia Liou, Wu-Jang Huang, National Ping-Tun University of Science and Technology
5	<b>To Stabilization Aluminium Dross by Using Biochar Under High Temperature</b> Cheng-Yan Xin, Wu-Jang Huang, National Ping-Tun University of Science and Technology
<b>Room 3 / T3: Recycling Technology on Electrical and Electronic Wastes</b>	
<b>Chairman:</b> Chin-Chu Yang, National Sun Yat-Sen University Naoki Hiroyoshi, Hokkaido University	
1	<b>Cathode Wetting of Reduced Magnesium during Molten Salt Electrolysis of Magnesium Chloride</b> Hyoung-Choon Eom, Chul-Ju Kim, Ho-Sung Yoon, Sung-Don Kim, Hyungkyu Park, Korea Institute of Geoscience and Mineral Resources
2	<b>Pb(II) Purification and Adsorption Mechanism onto Carbon Nanotubes</b> Run-Hua Chen, Li-Yuan Cha, Central South University
3	<b>DEM Simulation for Comminution/Abrasion Process of Waste Printed Circuit Boards Using a Particle Breakage Model</b>

	Yuki Tsunazawa, Kenichiro Torigoe, Nozomi Tsusaka, Chiharu Tokoro, Shuji Owada, Waseda university
4	<b>Leaching of NdFeB Magent Scarp</b> Ho-Sung Yoon, Kyeong-Woo Chung, Chul-Ju Kim, Korea Institute of Geoscience and Mineral Resources
<b>Room 4 / T1: Recycling Policy and Management</b>	
<b>Chairman:</b> Xueyi Guo, Central South University Jeong Soo Sohn, Korea Institute of Geoscience & Mineral Resources	
1	<b>The Effect of Synthesis Conditions on Quality of Natural Hydraulic Lime</b> Jin-Sang Cho, Korea Institute of Limestone and advanced materials, Kangwon National University Ki-Yeon Moon, Kye-Hong Cho, Korea Institute of Limestone and advanced materials Ji-Whan Ahn, Korea Institute of Geoscience and Mineral Resources Kyu-Seok Yeon, Kangwon National University
2	<b>Development of Consecutive Process for Calcium Ions Extraction from Steel Slag and Precipitated Calcium Carbonate (PCC) Synthesis for Light-Weight Vehicles</b> Ji-Whan Ahn, Seong-Young Nam, Sung-ho Lee, Korea Institute of Geoscience and Mineral Resources(KIGAM)
3	<b>Comparison of Sequestered CO<sub>2</sub> Amounts into Solid Wastes Combustion Residues Using Various Evaluation Methods</b> Mihee Lim, Seong-Young Nam, Jong-Kyu Lee, and Ji-Whan Ahn, Korea Institute of Geoscience and Mineral Resources(KIGAM)
4	<b>Study on Evaluation of Water Resources Utilization Efficiency in China</b> Liyang Yang, Xinyi Xu, Beijing Normal University
<b>Room 5 / T4: Recycling Technology on General Wastes : Paper, Plastic, Glass, Rubber, End-life Vehicles, and Other Living Wastes</b>	
<b>Chairman:</b> Ji Whan Ahn, Korea Institute of Geoscience & Mineral Resources Masakazu Niinae, Yamaguchi University	
1	<b>Formation of Silver Nanoparticles Induced by the Heat of Mixing of Solvents</b> Kojima Takenobu, Hongou Teruhisa, Katou Sigeru, Satokawa Sigeo, Kojima Tosinori, Yamasaki Akihiro, none left
2	<b>Hydrogen Reduction of Recycled Mo Oxide to Produce High Purity Mo and Fe-Mo Alloy</b> Min-Kyu Paek, Do-Hyoung Kim, Jong-Jin Pak, Hanyang University
3	<b>Phase Change of Rare Earth and Uranium Oxides by Mechanochemical Treatment Using Carbon Disulfide</b> Nobuaki Sato, Jyunya Kano, Akira Kirishima, Fumio Saito, Tohoku University
4	<b>Investigation of Process for Removal of Arsenic in Copper Resources for Environmental Protection</b> Kazutoshi Haga, William Tongamp, Yasushi Takasaki, Atsushi Shibayama, Akita University
<b>Section E: 13:00~14:30</b>	
<b>Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> J. Rajesh Kumar, Korea Institute of Geoscience & Mineral Resources Shaw-Bing Wen, Meiho University	
1	<b>Addition of Fly Ash Effects on the Crystalline Phase, Microstructure and Mechanical Strength of Portland Cement after Reaction with Saturated CO<sub>2</sub> Aqueous Solution</b> Hsing-I Hsiang, Chun-Chin Kuo, Chein-Lee Wang, National Cheng Kung University Ta-Lin Chen, Te-Kun Huang, CPC corporation
2	<b>Preparation of Sorbents for Boron Removal Using Waste Concrete Sludge</b> Takeshi Sasaki, Yuka Sakai, Teruhisa Hongo, Toshinori Kojima, Akihiro Yamasaki, Seikei University Atsushi Iizuka, Tohoku University
3	<b>Two-Step Carbon Dioxide Sequestration Process by Using Acid Extraction</b> Kan Igarashi, Teruhisa Hongo, Yuka Sakai, Akihiro Yamasaki, Seikei University Atsushi Iiduka, Tohoku University
4	<b>Preparation of Plastic Composites Containing Bottom Ash Surface-modified with Compatibilizing Surfactant</b> Ha Youn Kim, Jae Won Choi, Byoung Chul Chun, Inje University, Korea Yong-Chan Chung, The University of Suwon
<b>Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Jin Young Lee, Korea Institute of Geoscience & Mineral Resources Toyohisa Fujita, The University of Tokyo	
1	<b>Fundamental Study on Technological Improvement of “Sash to Sash” Recycling</b> Kazuaki Tsuchiya, Tatsuya Morita, Shuji Owada, Waseda University Atsumi Takasugi, Japan Aluminium Association
2	<b>Investigation of the Effective CO<sub>2</sub> Sequestration by the Carbonation of Alkaline Industrial Wastes</b>

	Myoungwook Mun, Heechan Cho, Seoul National University
3	<b>Recovery Of Pt from The Chloride Leaching Solution of Petrochemical Spent Catalysts by Solvent Extraction and Ion Exchange</b> P.P. Sun, M.S. Lee, Mokpo National University S.M. Shin, Korea Institute of Geoscience and Mineral Resources
4	<b>Experimental Research on Recovering Auriferous Arsenopyrite Concentrate from the Gold Tailings</b> Xuejun Ye, Jiangxi University of Science and Technology
<b>Room 3 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Toshiaki Yoshioka, Tohoku University Bing Peng, Central South University	
1	<b>Resource Utilization Research of Baosteel Steel Slag in Concrete Material</b> Qiang Jin, Gang Yang, Chao Zhang, Youqin Wang, The Research Center of Metallurgical Dreg Hongzhu HE, Market Administration Station of Shanghai Building Mmaterials Hanying YU, Development Office of New Wall Materials
2	<b>Stabilization And Recovery of Heavy Metals in Zinc Containing Residue by Hydrothermal Sulfidation</b> Yanjie Liang; Liyuan Chai; Xiaobo Min; Yong Ke; Haijing Zhang, Central South University
3	<b>Thermodynamic Studies of the Biosorption of Heavy Metals from Aqueous Solutions by Rice Bran</b> Yun-nen Chen, Li-chao Ding, Jin-xia Nie, Jiangxi University of Science and Technology
4	<b>Mineralogical Characteristics and Environmental Availability of Zinc Leaching Residue</b> Xiao-Bo Min, Xian-De Xie, Yan-Jie Liang, Mi Li, Yong Ke, Central South University
<b>Room 4 / T8: Environment Protection and Other Related Issues</b>	
<b>Chairman:</b> Jianguang Yang, Central South University Huan-Lin Luo, I-Shou University	
1	<b>Co-Carbonmonoxide-Reduction at Low Stack Temperatures of 150°C</b> Karlheinz Paessler, Nuesser Ingenieures. mbH
2	<b>Analysis of Preferable Spatial Scale of a Sound Material Cycle of Waste and Recyclable Waste</b> Atsushi Fujiyama, Toru Matsumoto, The University of Kitakyushu
3	<b>Removal of Fluoride from the Drinking Water by Novel Technologies</b> Na Zhao, Weichun Yang, Xiangyu You, Yunyan Wang, Liyuan Chai, Central South University
4	<b>Degradation of Three Lignin Monomers by Cupriavidus sp. B-8</b> Li-yuan Chai, Huan Zhang, Zhi-hui Yang, Yu Zheng, Yue-hui Chen, Central South University
<b>Room 5 / T4: Recycling Technology on General Wastes : Paper, Plastic, Glass, Rubber, End-life Vehicles, and Other Living Wastes</b>	
<b>Chairman:</b> Sun Myung Shin, Korea Institute of Geoscience & Mineral Resources Seiji Matsuo, The University of Tokyo	
1	<b>A Novel Separation Method for Waste Plastic Including Black Plastic</b> Yuta Yamaj, Gjergj Dodbiba, Toyohisa Fujita, Sorting research of black color plastics using Raman spectrum
2	<b>Recovery of Boron from Brine by the Solvent Extraction Method</b> Chul-Joo Kim, J. Rajesh Kumar, Jin-Young Lee, Ho-sung Yoon, Korea Institute of Geoscience and Mineral Resources(KIGAM)
3	<b>A Kinetic Study of the Nickel Solvent Extraction with LIX84I Accelerated by PC88A</b> Mikiya Tanaka, Nahoko Morii, Yumiko Sato, Hirokazu Narita, National Institute of Advanced Industrial Science and Technology (AIST)
4	<b>Gold Recovery from Chloride Solution Using Copper Converter Slag</b> Naoki Hiroyoshi, Hajime Kijitani, Richard Diaz Alorro, Mayumi Ito, Masami Tsunekawa, Hokkaido University
5	<b>Experimental Study on Acidification Treating Reed Black Liquor of Paper-Making after Desilication</b> Jing Zhao, Xiang-yu You, Yun-yan Wang, Li-yuan Chai, Yu-de Shu, Central South University Shuo Li, China Machinery International Engineering Design & Research Institute Co.
<b>Section F : 15:00~16:30</b>	
<b>Room 1 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Chaobo Tang, Central South University Ya-Min Hsieh, Taiwan Shoufu University	
1	<b>The Application of Incineration Bottom Ash Using as Secondary Construction Materials in Taiwan</b> Li-Cheng Chan, Jih-Kuo Wang, Cambridge Engineering Consultants. Inc. Yi-Kuen Liu, Hong-Yuan Lee, Yii-Ren Song, Ying-Ying Lai, Tien-Chi Wu, Environmental Protection Administration
2	<b>An Energy-Save Method for Aluminum Recovery from Coal Fly Ash</b>

	X.C. Qiao, J.G. Yu, East China University of Science and Technology
3	<b>Separation of Franklinite from Zinc Calcine by High Gradient Magnetic</b> Mi Li, Bing Peng, Liyuan Chai, Jiming Wang, Central South University
4	<b>Treatment of Gaseous HCl using Mg–Al Oxide</b> T. Kameda, N. Uchiyama, T. Yoshioka, Tohoku University
<b>Room 2 / T2: Recycling Technology on Industrial Wastes : Metals, Slag, Sludge, Ash, Catalyst, Wastewater</b>	
<b>Chairman:</b> Gjergj Dodbiba, The University of Tokyo Hui Liu, Central South University	
1	<b>Recovery of Iron from Laterite Residue by Reducing Roasting-weak Magnetic Separation Process</b> Xue-Yi Guo, Qi-Qi Gong, Wen-Tang Shi, Dong Li, Qing-Hua Tian, Central South University
2	<b>Flocculating Capability of Bio-polymeric Ferric Sulfate Composition Flocculants</b> Yu Miao, Xiaobo Min, Liyuan Chai, Zhihui Yang, Yinan Yin, Central South University, China
3	<b>Zinc Flotation and Recovery from Lime Neutralization Sludge Treated by Hydrothermal Sulfidation</b> Haijing Zhang; Xiaobo Min; Liyuan Chai; Yanjie Liang; Cuiyu Yuan, Central South University
4	<b>A Study on Removal of Water-Soluble Chloride from Incinerator Bottom Ash</b> H.J. Wu, T.W. Cheng, Y.C. Ding, National Taipei University of Technology
<b>Room 3 / T8: Environment Protection and Other Related Issues</b>	
<b>Chairman:</b> Tsuyoshi Hirajima, Kyushu University Kung-Yuh Chiang, eng-Chia University	
1	<b>Resource Integration by CSC</b> Kuan-Nan Lin, China Steel Corporation
2	<b>The Benefits of Industrial Symbiosis of the Eco-Industrial Parks in Taiwan</b> Yen-Chuan Chen, Hsuan-Chi Chen1, Hui-Lan Chang, Zeng Wang, Chen-Chiu Tsai, Industrial Technology Research Institute; Jui-Hsi Yen, Yi-Hua Li, Chi-Ming Chiu, Ying-Ying Lai, Tien-Chi Wu, Environmental Protection Administration
3	<b>Research of Optimization Program for Carbon Dioxide underground Storage Technology</b> 詹文修；丁原智；翁祖焯；國立台北科技大學；宣大衡；翁榮南；范振暉；台灣中油股份有限公司
4	<b>Development of Localized Greenhouse Gas Reduction Methods</b> Chih-Hsiung Tseng, Liang-Dong Chen, Yi-Hua Tang, and Hui-Chun Yang, Industrial Development Bureau
5	<b>Germination and Growth Effects of Bamboo Biochar Pyrolyzed at Four Different Temperatures</b> Odette Varela Milla, Eva B. Rivera, Wu-Jang Huang, National Pingtung University of Science and Technology
<b>Room 4 / T6: Technology on Waste to Energy</b>	
<b>Chairman:</b> Kwang Suk You, Korea Institute of Geoscience & Mineral Resources Keiko Sasaki, Kyushu University	
1	<b>Paul Wurth's Energy Saving Program</b> Horst Kappes, Mathias Hofmann, 32 Rue d'Alsace, L-1122 Luxembourg Thilo Weissert, Christian Davidi, Grugaplatz 4,D-45131 Essen
2	<b>A Study on Production of Nano Emulsion Fuel and the Method of Measuring Particle Diameter</b> Keita Soufuku, Gjergj Dodbiba, Toyohisa Fujita, none left
3	<b>A New Model to Study Thermal Decomposition Kinetic Characteristics of Waste High Density Polyethylene (HDPE)</b> C. H. Hsu, Hua-Shan Tai, National Kaohsiung First University of Science & Technology
4	<b>Preparation of Bioelastomer from Waste Vegetable Oil</b> Hyeok Lee, Prakashan K, Gyeonghwan Kwak, Jin Kuk Kim, Gyeongsang National University
5	<b>Biogas from Energy Crops: A Solution for Thailand's Sustainable Energy Development</b> Dawan Wiwattanadate, Chulalongkorn University
<b>Room 5 / T4: Recycling Technology on General Wastes : Paper, Plastic, Glass, Rubber, End-life Vehicles, and Other Living Wastes</b>	
<b>Chairman:</b> Katsunori Okaya, The University of Tokyo Haiying Wang, Central South University	
1	<b>XRT, EC and NIR Sorting for the Mutual Separation of Plastics or Metals for Better Recycling</b> Shigenori Kaminota, Fumikazu Otsuki, Yoshifumi Kato, Tomohiro Yamaguchi, EarthTechnica Co., Ltd. Shuji Owada, Waseda University
2	<b>Development of Advanced Separation Technology of Rare Metals Using Extraction Separation and Crystallization Stripping</b> Junji SHIBATA, Norihiro MURAYAMA, Kansai University; Masakazu NIINAE, Yamaguchi University Takashi FURUYAMA, Tohoku University of Community Service and Science

3	<b>Effect of Bubbles Behavior on the Microbubble Flotation by Ultrasonic Irradiation</b> Kaori Segawa, Eri Matsunaga, Shuji Owada, Waseda University; Etsuro Shibata, Takashi Nakamura, Tohoku University
4	<b>Technical Status and Progress of Lead Recycling of Battery</b> Wei-Feng Li, Central South University, Henan Yuguang Gold & Lead Co., Ltd. Li-Hua Jiang, Jiyuan Vocanionala and technical College Jing Zhan, Chuan-Fu Zhang, Central South University
<b>16:30~17:50</b>	
<b>Panel discussion 2: Integrated management of regional recyclable resources</b>	
Chairman: Prof. Chih-Cheng Chao, Sustainable Environment Research Center, National Cheng Kung University Panelist: Takashi Nakamura, Tohoku University, Japan Xueyi Guo, Central South University, China Ji-Whan Ahn, Korea Institute of Geoscience & Mineral Resources, Korea Yun-Chang Fu, WRC Pacific, Ltd., Taiwan	
<b>16:00~17:30</b>	
<b>Panel discussion 3: Green City and Low Carbon Life</b>	
Chairman: Mu-Sheng Lee, Director-General Environmental Protection Bureau Kaohsiung City Government Speakers: Chu Chen, Mayor City Of Kaohsiung, Taiwan Katsuhide Umemoto, Deputy Mayor City Of Kitakyushu, Japan Atsuhisa Takahashi, Corporate Executive Advisor (Environmental Strategy), Fujitsu Limited, Japan Shigeo Omori, Chairman of Kankyo Hoken Center Corporation, Japan Global Environment Business Development Group, Mitsubishi Corporation, Japan	

**POSTER DAY I**

Number	Poster Section on Nov 1 <sup>st</sup> (Tue) 16:30~17:50
1	<b>Concrete Sludge Recycling Process which Uses Carbon Dioxide</b> Atsushi Iizuka, Tohoku University Yuka Sakai, Akihiro Yamasaki, Seikei University Masato Honma, Yasuyuki Hayakawa, Nippon Concrete Industries Yukio Yanagisawa, The University of Tokyo
2	<b>Preparation of Heavy Metal Absorbent from Paper Sludge Using Sulfur Treatment</b> Riki Taguchi, Takaaki Wajima, Kenzo Munakata, Akita University
3	<b>The Durability in High Performance Concrete using Recycle and Waste Material for Fishing Port</b> Chao-Lung Hwang, Chun-Tsun Chen, Fransiscus Mintar Ferry Sihotang, Tuan Le Anh Bui, National Taiwan University of Science and Technology
4	<b>Study on the Comprehensive Utilization of Copper Zinc Etc Valuable Metals in Gold and Silver Ore Slag Roasting-Cyanide Tail</b> Qiu Ting-sheng, Wu Hong-qiang, Li Ting, Fang Xi-hui, Jiangxi University of Science and Technology Xie Qian, Hainan WenCheng mining Co., LTD
5	<b>Recovery of Vanadium and Molybdenum from Spent Catalyst Using Amine Based Extractants by Solvent Extraction Technique</b> J. Rajesh Kumar, Jin-Young Lee, Joon-Soo Kim, Wha-Sik Min, Korea Institute of Geoscience & Mineral Resources (KIGAM) Min-Woo Kang, Korea University
6	<b>Utilization of Activated Sludge Biomass for the Removal of Basic Dyes from Wastewater</b> Hawn-Chung Chu, Yi-Chou Wu, Lee-Ming Institute of Technology Li-Huei Lin, Hsin-Jiant Liu, Vanung University
7	<b>Forecasting the Effects on Green House Gas Reduction of the Home Appliance Rural Subsidy Program and Replacement Policy in China</b> Xianjun Lu, Toru Matsumoto, The University of Kitakyushu
8	<b>Separation and Recovery of Platinum and Rhodium from Chloride Leach Liquors of LCD Glass Manufacturing Furnace Scrap</b> Jin Young Lee, J. Rajesh kumar, Korea Institute of Geoscience and Mineral Resources (KIGAM) B. Raju, B. Nagaphani Kumar, Indian Institute of Chemical Technology (CSIR) B. Ramachandra Reddy, R&D Centre Rubamin Limited
9	<b>A Study to Manufacture Alumina Cement from Aluminum Black Dross of Secondary Aluminum Metallurgy</b> Wei-Sheng Chen, Chang-Wen Lin, Jun-Yi Wu, National Cheng Kung University
10	<b>The Practicability of Recycling Polished Porcelain Tile Sludge and Detoxic Fly Ash as Lightweight Tile</b> K.S. Changa, H.W. Hanb, M.F. Liub, C.H. Yangb, Y.P. Chienb, C.M. Liub, National United University
11	<b>Fundamental Study of Chloride Removal Mechanism in Sludge Washing Process.</b> Yuji Oda, Chiharu Tokoro, Shuji Owada, Waseda University; Mitsubishi Materials Corporation
12	<b>Separation Possibilities of Light Rare-Earths from Chloride Solutions of Monazite ore Using Organophosphorus Based Extractants</b> Joon-Soo Kim, J. Rajesh kumar, Jin-Young Lee, Korea Institute of Geoscience and Mineral Resources (KIGAM) B. Nagaphani Kumar, Indian Institute of Chemical Technology (CSIR) B. Ramachandra Reddy, Centre Rubamin Limited, India
13	<b>Technical Research on Iron Extraction from Cyanide Tailings</b> yali Zhang , xianjin Yu , huamei Li, Shandong University of technology
14	<b>Adsorption behavior of purine compounds in beer with activated carbon prepared from beer less</b> Satoshi TANAKA, Yusaku MIZUNO, Norihiro MURAYAMA, Junji SHIBATA, Kansai University
15	<b>The Pretreatment of Arsenic for Recovery of Gold from Gold Mine Tailing</b> Kwang sek Lee, Hongki Park, Kyoungkeun Yoo, Korea Maritime University
16	<b>Study on developing the rapid synthesis of functional silica</b> Chang-Sup Oh, Young-Cheol Kim, KISTI
17	<b>Synthesis and Corrosion Inhibition Behavior of Imidazoline Derivatives Based on Used Vegetable Oil</b> Joon-Seop Kim, Chosun University Young-Wun Kim, Kunwo Chung, Seung-Hyun Yoo, Myeong-Jae Choi, Korea Research Institute of Chemical Technology
18	<b>Fundamental Study on DEM Simulation for Estimation of Grinding Rate and Particle Size Distribution in a Ball Mill</b> Yuki Tsunazawa, Nozomi Tsusaka, Tomoko Takahashi, Kazuki Tahara, Chiharu Tokoro, Shuji Owada, Waseda

	university, Japan
19	<b>Fundamental and Application Studies on Nickel Recovery from Electroless Nickel Plating Waste Liquor by Solvent Extraction</b> Satoshi Kimura, Yuya Nagaike, Norihiro Murayama, Junji Shibata, Kansai University
20	<b>The Recycling Technologies Using Superheated Steam</b> Yusuke Miyazawa, The University of Kitakyusyu
21	<b>Optimization in the Recycling of Zinc Containing Industrial Residues</b> Antrekowitsch, J., Steinlechner, St., University of Leoben
22	<b>A Promotion Strategy for Enhancing Use of Recycling Green Building Materials</b> Gordon Tung-Chin Kung, Chih-Ta Tsai, Juu-En Chang, National Cheng Kung University
23	<b>Evaluation of Melt Cleanliness of AZ31B Magnesium Alloy by Quantitative Analysis of Non-metallic Inclusions</b> Byoung Gi Moon, Chang Dong Yim, Bong Sun You, Korea Institute of Materials Science
24	<b>Environmental Evaluation of an On-site Food Waste Composting System in Housing Complexes</b> Yingying Dou, Yonghai Xue, Toru Matsumoto, The University of Kitakyushu
25	<b>Immobilization of Aliquat 336 onto Amblite Xad-4 Resin by Solvent-nonsolvent Technique for Recovery of Chromate from Aqueous Solution</b> Jyh-Herng Chena, Kai-Chung Hsua, National Taipei University of Technology
26	<b>A numerical Modeling of Boron Removal Reactive Barrier Using Magnesium Oxide</b> Junta Kurami, Chiharu Tokoro, Waseda University Sayo Moriyama, Keiko Sasaki, Kyushu University
27	<b>Separation of Rare-earths From Nuclear Fuel by Sulfide Dissolution Method</b> Nao Tsutsui, Akira Kirishima, Nobuaki Sato, Tohoku University
28	<b>The Beneficial Reuse of Steel Slag in the Restoration of Korea's Coastal Ecosystem</b> Hyungsuek Kim, Kwangseok Park, Heonwoo Park, Keonmok Sohn, Research Institute of Industrial Science and Technology (RIST), POSCO
29	<b>Study on Biogas Utilizations in Inner Mongolia, China</b> Ji Zhao, I-Shin Chang, Xuefeng Yin, Zhibin Jia, Lixin Wang, Inner Mongolia University
30	<b>Effects of Addition Rate of Liquid Fertilizer on Solids Reduction in Primary Sedimentation Tank</b> Chiu-Yi Chan, Chi-Kang Lin, Hsiao-Wei Ching, Chi-Feng Liu, Yan-Siang-Peng, Chi Hsiao, Tungnan University
31	<b>Utilization of Granite Sludge and Cold-bonding Technique for Making Recycling Coarse Aggregates</b> Chih-Ta Tsai, Chien-Chih Chang, Wei-Sheng Chen, Juu-En Chang, National Cheng Kung University
32	<b>Comparative Study on Biogas Utilizations Between Japan and China</b> Shin Chang, Inner Mongolia University Toru Matsumoto, Yang Gao, the University of Kitakyushu Jing Wu, He Xu, Nankai University
33	<b>Effect of Curing Method on the Compressive Strength of Bottom Ash-Based Geopolymer Concrete</b> Gum-Sung Ryu, Si-Hwan Kim, Kyung-Taek Koh, Su-Tae Kang, Jang-Hwa Lee, Korea Institute of Construction Technology
34	<b>Influence of the Ratio of Na<sub>2</sub>O-SiO<sub>2</sub> of Alkali-Activator on the Mortar made of 100% Bottom Ashes</b> Si-Hwan Kim, Gum-Sung Ryu, Kyung-Taek Koh, Jang-Hwa Lee, Hyun-Jin Kang, Korea Institute of Construction Technology
35	<b>Recovery of Silicon Powder from Waste Silicon Sludge</b> Hee-Dong Jang, Dae-Sup Kil, Han-Kwon Chang, Korea Institute of Geoscience and Mineral Resources
36	<b>Various Applications of Microwave Energy</b> Zheng Zhen, University of Shanghai for Science & Technology
37	<b>Recovery of ITO glass from TFT-LCD wastes for DSSC Electrodes</b> Chen-Chun Chen, Fang-Chih Chang, H. Paul. Wang, National Cheng Kung University

**POSTER DAY II**

Number	Poster Section on Nov 2 <sup>nd</sup> (Wed) 16:30~17:50
1	<b>Chemical Regeneration of Magnesium Oxide as a Sorbent for Fluoride</b> Keiko Sasaki, Naoyuki Fukumoto, Tsuyoshi Hirajima, Kyushu University
2	<b>Applicability for Concrete of Inorganic Binder Produced from EAF Reducing Slag</b> Jinman Kim, Sunmi Choi, Jiho Kim, Eungu Kwak, Kongju National University
3	<b>Energy Saving of Air-Conditioning System in Greenhouse Using Evaporation Heat of Desalting System in Irrigation Water under Arid Climate</b> Seiji Matsuo, Ryousuke Fujioka, Katsunori Okaya, Toyohisa Fujita, The University of Tokyo
4	<b>Study on Separation Technology of Lead and Silver from Bulk Concentrate</b> Xiaohua Yu, Kunming University of Science and Technology, Technology Center of Yunnan Metallurgy Group Co. Shi Zhe, Kunming University of Science and Technology Jikun Wang, Gang Xie, Yonggang Li, Dajin Yang, Technology Center of Yunnan Metallurgy Group Co.
5	<b>Separation of Manganese and Cobalt from Ternary Cathodic Material of Spent Lithium Ion Battery Using Synergistic Solvent Extraction System</b> ShunMyung Shin, Sungho Joo, Korea Institute of Geoscience & Mineral Resources (KIGAM), Korea University of Science & Technology (UST) Jingu Kang, Jeongsoo Sohn, Hankwon Chang, Korea Institute of Geoscience & Mineral Resources (KIGAM)
6	<b>The Effect of Particle Size on the Densities and Chemical Compositions of Manganese Nodule Particles</b> Hongki Park, Kwang sek Lee, Kyoungkeun Yoo, Korea Maritime University Chi-Ho Yoon, Mineral Resources Research Div.; Korea Institute of Geoscience & Mineral Resources (KIGAM)
7	<b>Unburned Carbon Particulates Study, Focus on Characteristic Comparison</b> Ya-Min Hsieh, Chih-Peng Lin, Wann-lee Liou, Mei-Fang Wu, Taiwan Shoufu University, Yu-Chen Lee, Southern Taiwan Science Park Administration
8	<b>Reductive Fixed Sulfur Smelting of Spent lead-acid battery Colloid Sludge in a Fused Salt at Low Temperature</b> Tang Chao-bo, Tang Mo-tang, Yang Jian-guang, Yang Sheng -hai, Chen Yong-ming, He Jing, Lu Jun-le, College of Metallurgical Science and Engineering, CSU.
9	<b>Recycling Technology of Tap Water Sludge for Adsorption of VOCs and NH<sub>4</sub></b> Jin Man Kim, DuckJin, JeongMin Ra, BumYong Lee, Seog Woo Rhee, Kongju National University
10	<b>Studies on Recovery of Rare Metals from Oil Desulfurization Spent Catalyst</b> Toru Koseki, Ayumi Nakamura, Norihiro Murayama, Junji Shibata, Kansai University
11	<b>Feasibility of Recycling Waste Diatomite and Fly Ash Co-sintered as Porous Ceramics</b> Kae-Long Lin, Jen-Chieh Chang, National ILan University
12	<b>Absorption of Slaked Lime Film on Unburned Carbon Carrier</b> Chih-Peng Lin, Lu-Hsien Chen, Ya-Min Hsieh, Wann-lee Liou, Mei-Fang Wu, Taiwan Shoufu University, Yu-Chen Lee, Southern Taiwan Science Park Administration
13	<b>Behavior of Ti Sponge Formation by Kroll Process</b> Janaka Jayamini Wijenayaka, Se-Jong Kim, Ho-Sang Sohn, Kyungpook National University Jae-Young Jung, Sung-Gu Jo, Research Institute of Industrial Science & Technology(RIST)
14	<b>The Effect of Adding Oxidant to Bottom Ash on Odor Elimination</b> Hsiao-Wei Ching, Chiu-Yi Chan, Chi-Kang Lin, Liao-Sheng Yang, Jia-Ying Jiang, Cheng-Jhi Jheng, Tunghan University
15	<b>Factors Affecting CO<sub>2</sub> Emission Change of Road-transport Sector in Taiwan and Korea</b> Cheng-Feng Lee, Taiwan Shoufu University
16	<b>A Study of WEEE Recycling and Material Supply System</b> S.C.Wang, T.C.Chang, National Taipei University of Technology
17	<b>Influence of Sintering Temperature on the Characteristics of Solar Panel Waste Glass in the Production of Ceramic Tiles</b> Kae-Long Lin, Ching-Jung Cheng, Hsiu-Hsien Wu, National ILan University
18	<b>The Basic Study of Chlorination Reaction of Calcium Hydroxide under the Presence of Aluminum</b> Kouki Kasuya, Naomi Onodera, Atsushi Iizuka, Shibata Etsuro, Takashi Nakamura, Tohoku University
19	<b>Adsorptive Recovery of Precious Metals Using Persimmon Tannin Gels</b> Manju Gurung, Katsutoshi Inoue, Keisuke Ohto, Hidetaka Kawakita, Saga University, Shafiq Alam Memorial University
20	<b>Concepts for the Simultaneous Recovery of Valuable Metals from Zinc Bearing Residues</b> Stefan Steinlechner, University of Leoben
21	<b>A Combined of Emission Heat and CO<sub>2</sub> for Odor Elimination of Bottom Ash in Incinerator Flue</b>

	Chi-Kang Lin, Hsiao-Wei Ching, Chiu-Yi Chan, Liao-Sheng Yang, Li-Jyun Yu, Pei-Syuan Wang, Tungnan University
22	<b>Recovery of Ultrafine-copper Particles from Metal Components of Waste Printed Circuit Boards</b> Jian-guang Yang, Chao-bo Tang, Jing He, Yong-ming Chen, Mo-tang Tang, Central South University
23	<b>A Study of Recycling Method for Enamel-Coated Copper Wire Scrap with Induction Heating Process</b> Man-Sik Kong, Gun-Hong Kim, Hyun-Seon Hong, Jun-Sik Park and Sun Young Lee, Hanbat National University; Hanyang University
24	<b>Extraction of Valuable Metals from Spent CMB Catalyst for Lithium Ion Battery Using Supercritical CO<sub>2</sub></b> Jingu Kang, Jeongsoo Sohn, Hankwon Chang, ShunMyung Shin, Korea Institute of Geoscience & Mineral Resources (KIGAM) Sungho Joo, Korea University of Science & Technology (UST)
25	<b>Metal Recovery and Remanufacturing of Precursors for Cathode Active Materials from Spent Lithium Ion Battery Packs Used in Hybrid Electric Vehicles</b> Kangin Rhee, Jingu Kang, Sookyung Kim, DonghyoYang, Shun myung Shin, Jeongsoo Sohn, Korea Institute of Geoscience & Mineral Resources (KIGAM)
26	<b>Manufacturing Mixture of Mn Sulfate and Zn Sulfate from Spent Zinc-Carbon and Alkaline Batteries</b> Donghyo Yang, Shun myung Shin, Jingu Kang, Sookyung Kim, Jeongsoo Sohn, Korea Institute of Geoscience & Mineral Resources (KIGAM)
27	<b>Re-use Agricultural Wastes in the Pasture of the Impact on Nutrient Cycling</b> Jia-Twu Lee, Wu-Chou Yu, Wen-Shai Fu , Ruey-Shwn Lin, National Pingtung University of Science and Technology Chia-Sheng Chen, Taiwan Livestock Research Institute
28	<b>Application of Rare Earth Metals and Introduction of Recovery Technology</b> Jun-Yi Wu, Wei-Sheng Chen, Yun-Hwei Shen, Min-Shing Tsai, NCKU; Wei-Kai Lin, MIRDC
29	<b>Environmental Impact Assessment and Analysis of Industrial Parks Based on Support Vextor Machine</b> Yuanchun Ding, Yue Zhou, Minkang Tang, Jie Zeng, Jiangxi University of Science and Technology
30	<b>Extraction and Collection of Metals Included in the Printed Circuit Board Wastes which Took Advantage of A Pressurization Oxidation Extraction Process</b> Akira Hosoi, William Tongamp, Yasushi Takasaki, Athushi Shibayama, Akita University
31	<b>Removal of Copper from Solid Ferrous Scrap by Cyclic Oxidation</b> Jei-Pil Wang, Pukyong National University; Sang-An Ha, Mi-Young You, Silla University Shun Myung Shin, Korea Institute of Geoscience & Mineral Resources (KIGAM)
32	<b>Characterization and Utilization of Sewage Sludge Ash for Porous Bricks</b> Hwa-Young Lee, Korea Institute of Science & Technology
33	<b>Artificial Stone from Nonmetallic Materials Reclaimed from Waste Printed Circuit Boards</b> W. Pinyo, P. Saeheng, T. Sangkapes, P. Karnchanapiya, E. Hattha, K. Annanon, National Metal and Materials Technology Center (MTEC)
34	<b>Influence of Admixture Materials for Improving Curing Temperature and Performance on Compressive Strength of Fly Ash Concrete</b> Chun-Jin Park, Gum-Sung Ryu, Kyung-Taek Koh, Do-Gyeum Kin, Jang-Hwa Lee, Korea Institute of Construction Technology
35	<b>Desulfurization of Waste Lead Paste Produced from a Scrap Lead Battery Recycling Plant</b> Zhi-Chung Liu, Chung-Shin Yuan, Yuan-Chung Lin, National Sun Yat-Sen University Chung-Hsuang Hung, National Kaohsiung First University of Science and Technology
36	<b>Improvement of Control System of Air Classification Using AE Sensor</b> A. Tayaoka, Kitakyushu, National College of Technology; M. Kuwata, T. Hirajima, K. Sasaki, Kyushu University