G: Onsite, L: Online 7th March 2024

G1_Waste utilization and treatment								
Chairs		Dr. Dhasindrakrishna Kitnasamy			University of Southern Queensland			
		Prof. Jai-Young Lee			University of Seoul			
		Prof. Hiroshi UYAMA			Osaka University			
Onsite pitch talk and poster (16th 10:30-12:00) and Poster (16th 15:00-17:00)								
C000043	G1-1	Evaluation of waste incineration system with O2/CO2 combustion and CO2 capture technologies	Tetsushi	Okamoto	Kyoto University			
C000050	G1-2	Optimizing Lipid Extraction from Fat Balls as a Sustainable Biodiesel Resource	Febrian	Rizkianto	Kyoto University			
C000067	G1-3	Effect of Granular Activated Carbon on Methane Fermentation Efficiency with High and Low Organic Load Conditions	Hikaru	Kaneko	Toyohashi University of Technology			
C000096	G1-4	Characteristics of cellulose content and extraction in wood biomass resources in Korea	Kyunghoon	Choi	Chungnam National University			
C000021	G1-5	Sustainable Utilization of Fe-Rich Automotive Industrial Waste for Synthesizing Advanced Ceramic Pigments and Environmental-Friendly Management	Siriwan	Chokkha	Suranaree University of Technology			
C000107	G1-6	Conversion of PET waste into the effective adsorbent to remove heavy metals in the contaminated water	Jae Hwan	Yang	Chungnam National University			
C000005	G1-7	Higher order use of degraded plastic (Styrofoam) as insect repellent	Mitsutake	Suematsu	Sony Group Corporation			
C000045	G1-8	Decoding Resident Behavior and Motivation in Waste Management: A Logistic Regression Approach	Made Adi	Widyatmika	Indian Institute of Technology Delhi			
C000016	G1-9	CO2 Mineralization for Production of CaCO3 using Oyster Shell Waste	Kyumin	Jang	Yonsei University			
C000091	G1-10	Consumption & carbon footprint of plastic packaging by food delivery in Korea	Hakyun	Song	Chungnam National University			
C000072	G1-11	A Study on the application of spectral indices for monitoring stabilized soil with oyster shell	Woori	Cho	University of Seoul			
Sponsors		Hitachi Zosen Corporation: Waste-to-Energy (WtE) and Biogas Technologies	Yuri	Tsujino	Hitachi Zosen Corporation			
Sponsors		JFE Engineering Corporation	Kiyosato	Sasaki	JFE Engineering Corporation			
Online talk (16th 10:30-12:00)								
C000006	L	Livestock manure processing methods and the use of processing by- products in Japan	Izumi	Sasaki	Japan Industrial Waste Information Center			
C000022	L	Efficient Removal of Methyl orange by Shrimp Shell-derived Adsorbent: Adsorption Isotherm, Kinetics, and Mechanism	Kanokwan	Yamsomphong	Tokyo Institute of Technology			
C000070	L	Impacts of interactivity between activation energy of biomass decomposition and gas composition during pyrolysis	Muhammad Ismail Bagus	Setyawan	Tokyo Institute of Technology			
C000114	L	Evaluation of resource utilization of livestock and poultry wastes in China	Yujun	Shen	Academy of Agricultural Planning and Engineering, MARA			

G2_Demolition, disaster, industrial, hazardous waste

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Chairs		Prof. Weena Lokuge				University of Southern Queensland
		Dr. Sirintornthep Towprayoon				King Mongkut's University of Technology Thonburi
		Prof. Reiko SODENO				Shibaura Institute of Technology
Onsite pitcl	h talk an	nd poster (16th 13:00-14:30) and Poster (16th 15:00-17:00)				
C000094	G2-1	Novel CO2 Mineralization Technique for Upcycling Construction Waste and By-products into Cement-Based Materials	Nithurshan		Mylvaganam	Hokkaido University
C000111	G2-2	Chemical Resistance and Durability Performance of Graphene Enhanced Concrete	Danula		Udumulla	The University of Melbourne
C000035	G2-3	Greenhouse gas emissions from marine plastic collection and recycling: case studies in Tsushima and Osaka Bay, Japan	Katsuyuki		Nakano	Ritsumeikan University
C000060	G2-4	Dynamics of River Waste in Jakarta: Quantity and Environmental Influences	Afif	Faiq	Muhamad	National Institute for Environmental Studies
C000047	G2-5	Effects of Si/Al ratio on immobilization of Se in woody biomass fly ash based geopolymer	Yilan		Pei	Kyoto University
C000048	G2-6	The Chemical Speciation of As, Zn and Ni with Dredged Sediment by the Hydrothermal Technology (HTT)	Hye Won		Park	University of Seoul
C000074	G2-7	Effect of Temperature Rise on Arsenic Reaction and Speciation Changes in Paddy Soil	ChanMi		Choi	Chungnam National University
C000034	G2-8	Study on Adsorption Properties of Blast Furnace Slag-Modified Materials	Jiaqi		Wang	The University of Tokyo
C000110	G2-9	Graphene Oxide for Strength Enhancement of Recycled Aggregate Concrete	Pasadi	Litara	Devapura	University of Melbourne
C000064	G2-10	A Study on the Stabilization Effects of As-Contaminated Soil Treated with Fe-Steel Slag and Ecosta-A: Utilizing Bioconcentration	Jeong-Hyun		LEE	University of Seoul in Korea
C000066	G2-11	Thermal stabilization of Cs+-exchanged zeolite 13X with/without clay minerals	Minji		Park	Chungnam National University
Sponsors		Dowa Holdings Co., Ltd.	Yoshinori		Morita	Dowa Holdings Co., Ltd.
Online talk	(16th 13	3:00-14:30)				
C000012	L	E-waste management in Vientiane Capital, Laos	Souphaphone		Soudachanh	University of Natural Resources and Life Sciences Vienna
C000036	L	Simple Detection Method of Asbestos for Disaster Waste Building Materials	Masaaki		Tabata	Saga University
C000077	L	Effect of alkaline modified coal fly ash on water retention capacity and desiccation crack formation of soil	PU		YANG	Tokyo Institute of Technology
C000038	L	Separation of Strontium and Cesium Using Crown Ether Functionalized Mesoporous Silica from Aqueous Waste Matrices	Rashedul Islam		Ripon	Fukushima University
C000090	L	Mechanical response of waste tyre rubber reinforced cemented rockfill	Vidanagamage	Mithushi Kanjana	Wickramasinghe	Deakin University

G3 Technology

Chairs Dr. Yuguo Yu RMIT University						
Chairs		Dr. Yuko SAITO				Tohoku University
Ongita nital	h tallz ar	nd poster (17th 9:00-10:30) and Poster (16th 15:00-17:00)				Tolloku Ulliversity
		Conversion of Polylactic Acid in Subcritical Water: Prospects for				
C000049	G3-1	Products Recycling from Bioplastic Hydrolysis	Fan		Wu	The University of Tokyo
C000061	G3-2	Behavior of Mercury in Carbon Capture Process for Municipal Solid Waste Incinerator	Kanta		Funaki	Kyoto University
C000100	G3-3	Investigation of microplastics from granulated virgin materials and aged samples in digestion system: are they different?	Yanan		Li	Institute of Chimistry, Henan Academy of Sciences
C000054	G3-4	Research on the development of data infrastructure for the proper disposal and long-term use of waste photovoltaic panels	Yuko		Saito	Tohoku University
C000076	G3-5	Observation of changes in arsenic speciation according to various microbial metabolic conditions in paddy soil	Hyemin		Lee	Chungnam National University
C000108	G3-6	A numerical framework for modelling chloride transportation in alkaliactivated slag concrete	Bin		Dong	The University of New South Wales
C000109	G3-7	Elibodied Carboli	Enyong		Zhao	University of New South Wales
C000106	G3-8	Optimizing Recycling Bin Efficiency: Real-time Plastic Bag Identification with Detection Transformer	Minh	K.	Quan	Deakin University
C000046	G3-9	Biomimicry for Sustainable Seas: Harnessing Microbial Biodegradation to Combat Plastic Pollution in Da Nang City, Vietnam's Coastal Waters	Nguyen	Duong Gia	Bao	Phan Chau Trinh High School
C000088	G3-10	A Treatment of Antibiotic Contaminated Synthetic Wastewater Using Electrochemical Process	Tatiya		Wannomai	Burapha University
C000104		Examining the Impact of Fly Ash in Glass Fine Aggregate Mortar	Vimukthi		Fernando	University of Southern Queensland
C000113	G3-12	Smart AI-Enabled Robotic Technologies for Plastic Waste Sorting	Shanaka		Kristombu Baduge	The University of Melbourne
C000102	G3-13	Enhancing Fly Ash-Based Geopolymer Concrete Performance through Machine Learning: A Predictive Model for Compressive Strength and Workability Optimization.	Madushan Priyankara Rathnayaka		Rathnayaka Mudiyanselage	Royal Melbourne Institute of Technology (RMIT) University
C000007	G3-14	Stabilization of Desulfurization Wastewater through Mineral Carbonation Technology	Won Yong		Choi	Yonsei University
Sponsors		Introduction of TAKUMA "Waste treatment plants & Energy plants"	Yasuyuki		Fujita	Takuma Co., Ltd.
Online talk	(17th 9					
C000080	L	Investigation Into the Interactions during co-Hydrothermal Carbonization of Polyvinyl Chlorine and Biomass: Effect of Biomass	Нао		Xu	Tokyo Institute of Technology
C000009	L	Mathematical model for strength of alkali-activated materials	S.H.		Chu	Columbia University
C000082	L	Emission Resources Utilization to Climate Change Responses	Kazuya		Yasuhara	Ibaraki University & Local Resilience Research Institute, Japan
C000058	L	The investigation of shear strength parameter for municipal solid waste from open dumpsites using direct shear test apparatus	Parichat		Suknark	King Mongkut's University of Technology Thonburi
C000095	L	Exploring Intermediary Digital Platforms for a Circular Construction Economy: A Social Perspective	Sara		Pishgahi	Royal Melbourne Institute of Technology (RMIT) University

G4_LCA and Flow Analysis

	G4_LCA and Flow Analysis						
Chairs		Dr. Chamila Gunasekara				RMIT University	
		Dr. Habuer				Okayama University	
		Dr. Junya YANO				Kyoto University	
Onsite pitcl	h talk an	nd poster (17th 11:00-12:30) and Poster (16th 15:00-17:00)					
C000026	G4-1	Life Cycle Assessment and Cost Analysis of Municipal Solid Waste	Srey Pich		Dooung	The University of Tokyo	
C000020		Management in Phnom Penh, Cambodia			Poeung		
G000042	G4-2	Optimal Solid Waste Management Scenarios for Subic Bay Freeport	Janelle Abby		Т	The Haring of Telese	
C000042		Zone, the Philippines			Tan	The University of Tokyo	
		The trade-off analysis between plastic recycling and material					
C000024		substitution for decarbonization based on life cycle assessment and	Kazuma		Hirata	The University of Tokyo	
		equilibrium point analysis					
C000044			Chengyao		Zhang	The University of Tokyo	
		A Year-Long Evaluation and Lessons Learned of Solid Waste	<i>BJ</i>				
C000056		Management Database System Operation in the Western Province of Sri	Akifumi		Kanachi	EX Research Institute Ltd.	
	0.0	Lanka			1101100111		
		Cost-benefit Analysis of Establishing Material Recovery Facilities for		Saiful			
C000015	G4-6	Municipal Solid Waste in Chattogram City, Bangladesh	Md	Islam	Chowdhury	Toyo University	
		Field Survey on the Disposal Status of Used Portable Batteries from	Junya	Islam			
C000115	I(T/L /	Households			Yano	Kyoto University	
		Environmental Assessment of a Local Resource Circulation Scheme: a					
C000071		Case Study on Integration of Anaerobic Digestion and Rice Cultivation	Wanseop		Jung	Kyoto University	
C000071		in Keihoku, Kyoto	vv anscop		Jung	Try oto Oniversity	
C000062		Material Flow Analysis of Lithium in Latin America	Estefania	Isabel	Orquera	Tohoku University	
		Life cycle analysis of food containers made of biodegradable plastic,		154001	Orquera	Tolloku Chrycisity	
C000078	G4-10	poly(3-hydroxybutylate-co-3-hydroxyalkanoate) (PHBH)	Daichi		Yamada	Kyoto University	
		Material flow analysis and life cycle assessment of PET bottles in South					
C000092	G4-11	Korea	Chonghee		Lee	Chungnam National University	
C000019		Revealing the hidden flows under China's sustainable mobility transition	Dinzo		Wang	Tohoku University	
C000019	04-12	Waste Flow Analysis and Optimal Location Analysis of Bins in a	Bilize		wang	Tolloku Olliversity	
C000093	G4-13	Barangay in Manila, Philippines – Towards Improvement of Material	Curt Jeremy		Bernardo	Hairransity of the Philippines Dilippen	
C000093		• • • • • • • • • • • • • • • • • • • •			Demardo	University of the Philippines Diliman	
Changana		Recovery Systems	Akira		Sakano	ECOMMIT Co. 144	
Sponsors Online talk			Акіга		Sakano	ECOMMIT Co.,Ltd.	
Omme talk				I			
C000053	L	Current recyclable waste flow in central Vietnam — Potential for	Cuong	Dinh	Le	Okayama University	
		neading toward circular economy					
C000069		Analysis of Informal Waste Sector Characteristics in Balikpapan City	Muhammad	Maarij	Harfadli	The University of Kitakyushu	
		Using Pressure-State-Response (PSR) Framework, Indonesia		,	<u> </u>		
C000033	L	Development of plastic waste generation distribution model using	Elprida		Agustina	Institut Teknologi Bandung	
		remote sensing data product and machine learning				<i>U B</i>	
	L	Environmental Cost-Benefit Analysis of Community Waste Collection	Machmuddin I	Fitra Miftahadi The U	200 1		
		<u>i</u> <u>i</u>			The University of Kitakyushu		
		Drop-off System					
C000075	Ĺ	Potential and recovery of organic waste through household composting in	Dhundi Raj		Pathak	Engineering Study & Research Centre, Nepal	

G5_Policy and behavior (mainly system analysis)

	una sen	Dr. Dhayna Middha				RMIT University
Chairs		Dr. Bhavna Middha Drof MADIA ANTONIA TERESA TANCHULING				
		Prof. MARIA ANTONIA TERESA TANCHULING				University of the Philippines
0 4 4 1	1 4 11	Prof. Kohei WATANABE				Teikyo University
Onsite pitch	n taik ai	nd poster (17th 14:00-15:30) and Poster (16th 15:00-17:00)				
C000055	G5-1	Comparison of life-cycle greenhouse gas emission between reusable	Junichiro		Koshiba	Kyoto University
		tumblers and single-use cups considering attached lids and straws				
C000065	G5-2	Study on public environmental awareness and behaviour towards	Yuriko		Hayabuchi	Kyushu University
G000012	05.2	regional plastic circulation: the case of Kurume City	T. 1:		TD 1 4	
C000013	G5-3	Critical Path of a Circular Economy for Plastic	Tomohiro		Tabata	Kobe University
C000014	G5-4	Survey and analysis on the use and disposal of plastic shopping bags	Jun		Nakatani	The University of Tokyo
		before and after the introduction of charges				
C000052	G5-5	Difference in consumption behavior toward green-branded toothbrushes	Yuta		Ando	Kyoto University
	1	among Japan, Bulgaria, and France				
C000083	G5-6	Africa's Contribution to Waste Reduction: A Case of Plastic Repairing	Rika		Hirao	Kyoto University
		in Djougou, Benin Impact of the 2020 plastic bag charge policy on the amount of plastic				<u> </u>
C000011	G5-7		Hirotaka		Kumamaru	Akita University
		bags From the material aspect of plastic bags Analysis of Household's participation for source separation towards a				
G000010	05.0		Fernando	G1 '1	Jeewanee	Toyo University
C000010	G5-8	quality compost production, under the organic farming policy in Sri		Chamila		
		Lanka	 		 	
C000018	G5-9	Exploring the Path of Privacy Concerns on Chinese Consumers'	XXX		Habuer	Okayama University
		Intention to Recycle Obsolete Cell Phones Drivers to Consumer Environmental intention and behavior: a				
C000117	G5-10		JIE		SUN	Kyoto University
		systematic review Integrating Circularity in Purchasing: A SMART evaluation of				
C000101	G5-11		Aryana		Shahin	Deakin University
C000087	G5-12	Australian governmental purchasing policies The trend and current situation of food waste utilisation in Japan	Kohei		Watanabe	Teikyo universiy
C000087	G3-12	Improving Solid Waste Management Systems Thru Community-Based	Konei		w atamabe	Telkyo uliiveisiy
C000119	G5-13	Waste Diversion Activities: Case of Two Urban Barangays in Metro	Ma. Brida	Lea D.	Diola	University of the Philippines Diliman
C000119		= -		Lea D.		Oniversity of the Fininppines Diffinal
	 	Manila, Philippines		+		
Cuangona		Mitaukishi Wasta ta Engueri	Akihiro		Yamada	Mitsubishi Heavy Industries Environmental &
Sponsors		Mitsubishi Waste-to-Energy	Akiniro		r amada	Chemical Engineering Co.,Ltd.
Online tells	(17th 1	<u> </u> 4:00-15:30)				
	(1/W 1	A Drag Cymras to Evaluate the Influence of Object Attachment on Chinese		<u> </u>		
C000031	L	Consumers' Intention to Recycle Obsolete Cell Phones	Yuxin		Du	Okayama University
		Analysis of Plastics Recycling Business Feasibility in the Pacific Island				
C000025	L		Yoko		Onuma	Japan International Cooperation Agency
-	+	Countries: A Case Study in Samoa Improvement of waste collection and its impacts on citizen's behavior,		+		
C000118			Rie		Kawanishi	EX Research Institute Ltd.
	<u> </u>	case study of Brod village, Dragash Municipality, Kosovo	<u> </u>			