KYOTO UNIVERSITY INTERNATIONAL SYMPOSIUM 2023

on Education and Research in Global Environmental Studies in Asia

Rural Culture and Conservation - Implications for Global Environmental Studies in the Anthropocene

December 11, 2023

(UTC + 7:00 time zone)

09:00 - 09:20 Opening and Welcome Address

(Moderators: Atsushi Takai, Vu Tuan Minh)

Nagahiro Minato President, Kyoto University

Le Anh Phuong President, Hue University

Takeshi Katsumi Dean of GSGES, Kyoto University

Tran Thanh Duc Rector, Hue University of Agriculture and Forestry

09:20 - 09:30 Group Photo

09:30 - 10:15 **Keynote Speech**

Le Van An Former Rector, Hue University of Agriculture and Forestry

10:15 - 11:00 Ceremony: The Title of Honorary Professor

Shigeo Fujii, Professor Emeritus, Kyoto University

11:00 - 12:00 -- Lunch break --

12:00 - 13:15 Poster presentations

13:30 - 15:00 Oral presentations

Sub-session 1: Global Ecology

Sub-session 2: Environmental Technology

Sub-session 3: Natural Resources

-- Tea break --

15:00 - 15:15 Award Ceremony for Best Posters

15:15 - 15:20 Group photo

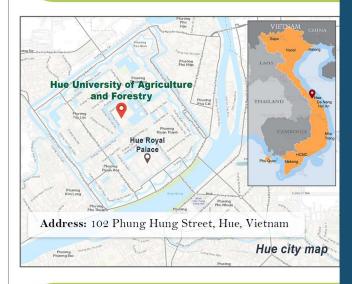
15:20 - 15:30 **Closing Remarks**

(Moderators: Shinya Echigo, Tran Thi Quynh Tien)

Makoto Usami, Vice-Dean of GSGES, Kyoto University

Participation fee FREE of charge

Online +
Hue University of Agriculture
and Forestry



How to access Zoom?

URL: https://www2.eip.ges.kyoto-u.ac.jp/symposium2023/zoom

Please check the website for the Zoom link and other connection details >>





Graduate School of Global Environmental Hue University of Agriculture tudies (GSGES), Kyoto University and Forestry

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DIGNITARIES



Keynote Speech Le Van An Former Rector, Hue University of Agriculture and Forestry

'Participatory Approach in Cultural Conservation: A Story in Construction, Maintenance and Renovation of the Ethnic Minority Community House in Hong Ha commune'



Award Commemorative Speech Shigeo Fujii Professor Emeritus, Kyoto University

'Memories of GSGES's education and research activities in Hue'

This speech will highlight his contributions to Hue University and present ideas on establishing inter-university collaborations.

POSTER PRESENTATIONS - Parallel sessions

- 1. Each presenter will be given 2 minutes to explain the poster. Q&A sessions will be conducted together for multiple presentations.
- 3. Best poster presentations (only for presenters under 40 years of age) will be judged by the selection committee, and awarded before the Closing session.

1	Global Eco
	Introduction of co-chairs

Co-chairs: Ryo Nukina

Tran Thanh Duc

GSGES, Kyoto University Hue University of Agriculture and Forestry

	Introduction of co-chairs and ses	sion (12:00 - 12:05)		
GE01	Daehan An	A study on the sustainable water—energy–food nexus in South Korea: A simultaneous equations approach		
GE02	Ryan Hidayat	Development of Sustainable Tourism in Cultural Heritage Areas in Kebumen Geopark		
GE03	Izazaya Binta	Conserving Living Heritage in Green Concept Approach: A Caseof SingkawangCity, Indonesia		
GE04	Le Thi Thu Ha	Factors Affecting the Development of Household-Scale Acacia Plantations for Large-sized Timber in Central Vietnam		
GE05	Shiori Sano	Process of Policy Learning by Local Governments: The Case of SDGs Platforms in Japan		
GE06	Nguyen Duy Ngoc Tan	Studying on effects of branch cutting position and Indole-3-Acetic Acid (IAA) to growth of Jasminum subtriplenerve blume in Central Vietnam		
GE07	Shoaib Salman	Sustainable drinking water production from Seawater		
	Discussion of Posters from GE01	to GE07 (12:19 - 12:27)		
GE08	Yuqi Zhang	The livability in shrinking cities: A case study from Fuxin City, China		
GE09	Girbani Pokhrel	Transformative Shifts in Livelihood in Trans-Himalayan Zone: Manang, Nepal		
GE10	Yatong YANG	Beyond National Sovereignty: Applying the Subsidiarity Principle to Climate Change Displacement		
GE11	Sailu Zhang	The effects of emission trading scheme and government pressure on corporate climate change disclosure in China		
GE12	Rika Fajrini	Judge in White Coat: How Courts Assess the Environmental Impact Assessment (EIA) Case Study of Indonesia Environmental Administrative Litigation		
GE13	Yumi Anggraini	Residential Energy Behaviour in Japan: From the Gender Perspective		
GE14	Phan Thi Thao Linha	Studying the acute toxicity of iron and arsenic in the cladoceran Moina macrocopa		
GE15	Nahoko Tanemoto	Meat consumption and gender norms: The case of Japanese youth		
	Discussion of Posters from GE08	to GE15 (12:43 - 12:51)		
GE16	Sahar Hassani	Environmental Crisis, Human Rights Violations, and Governments' Responsibilities: A Case Study of Dryness of Urmiya Lake in Iran		
GE17	Fathan Aldi Rivai	Detection of Land Use and Land Cover Change in Sukajaya District use Machine Learning on Google Earth Engine		
GE18	Phuoc Cuong	Development of a dataset on soil and groundwater environmental health quality using a combination of physicochemical method and machine learning models in Vietnam Central: case study in Da Nang city		
GE19	Xie Yusong	Urban Roadway Networks and Their Multifaceted Effects on LULC, Environment, and Economy: Taking the major metropolitan in Japan as example		
GE20	Mariam Kvaratskhelia	Actual and Perceptual Barriers to Commuting Cycling in Georgia		
GE21	Roma Kandpal	Electric mobility transition in India: Mapping out policies at the sub-national level.		
GE22	Atie Ernawati	Architectural Fusion and Cultural Harmony: Exploring the Influence of Cultural Diversity on Kampung Baru Historic Mosque Jakarta		
GE23	Tomohiro Kondo	Adaptability to environmental stresses of local crops used to be cultivated in slash-and-burn fields in the Kyushu Mountains, Japan		
	Discussion of Posters from GE16	to GE23 (13:07 - 13:15)		

2	Tec
	Introduction

Environmental



Pollution control and

Co-chairs: Youhei Nomura

Huynh Trung Hai

	1 echnology 1	environmental management	GSGES, Kyoto University	Hanoi University of Science and Technology			
	Introduction of co-chairs and session (12:00 - 12:05)						
ET01	Mai-Huong Cao	A comparison study of PM2.5 concentrations in	Hanoi and Ho Chi Minh city				
ET02	Dinh Quoc Huy	A study on the investigation of the dominant ty	pe of motorcycles in Hanoi, Vietnam				
ET03	Nguyen Phuoc Quy An	Studying on dust pollution from traffic activitie	s in Ton Duc Thang - Nguyen Luong	g Bang Street, Da Nang			
ET04	Yin Nyein Myat	Assessment of Airborne Microplastics Concent	rations in Thung Thalad Dumpsite				
ET05	Chu Thi Thuc Trinh	Determining real-world driving characteristics	Determining real-world driving characteristics of motorcycles in Hanoi, Vietnam				
ET06	Oluwatoyin Hannah O.	Exposure to Subway Particles' Components Induced Endothelial Dysfunction					
ET07	Le Hoang Son	Health risk assessment of street food customers: A comparative study in Danang, Vietnam					
ET08	Kanitthika Santhaweesuk	Evaluation of Hexabromocyclododecane and Te	trabromobisphenol - A Levels in Ind	oor Total Dust in Bangkok Metropolitan Area,			
L100		Thailand					
	Discussion of Posters from ET01	to ET08 (12:21 - 12:29)					
ET09	Tran Vu Chi Mai	Analysis of plastic waste generation and discard habits in Danang City, Vietnam					
ET10	Nguyen Hoang Trung H.	Biosynthesis of silver nanoparticles from Glinus Oppositifolius extract					
ET11	Vu Thi Mai Hoa	Composition of biosolids from high organic content wastewater treatment by activated sludge process					
ET12	Song Toan Pham Phu	Developing A Thermal-Composting System for Recycling Bio-solid Waste					
ET13	Kawinthip Wichatham	natham Discovering Bacteria with the Capability to Degrade Polypropylene Plastic in Soils					

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ET14	Diep Ngoc Khoi Vo	Evaluation of the stabilization effectiveness of dewatered sludge by aerobic incubation experiments combined with a bulking agent		
ET15	Nattharika Phongmanee	Occurrence and fate of Super-hydrophilic organic matter in natural waters in Japan and related Haloacetic acid formation potential		
ET16	Jayson Arizapa	ssessment of Different Spectral Indices for Surface Water Extraction		
	Discussion of Posters from ET09	to ET16 (12:45 - 12:53)		
ET17	Aprillia Findayani	The Effectiveness of the APO (Sea Water Breaker) as Natural Based Solution on Mangrove Restoration in the North Coast of Central Java: a Comparative Study		
ET18	Ho Hong Quyen	Development of chitosan-based adsorbent for boron removal from aqueous solution		
ET19	Duy Nam Dao	Enhancing the efficiency of methylene blue degradation using TiO2 quantum dot photocatalyst		
ET20	Nguyen Thi Thuy Hang	Evaluation of seaweed utilization potential to reduce pollution of waste waters sourced from tropical intensive shrimp farms		
ET21	Tran Thi Kim Nhi	Effects of Sodium Nitroprusside (SNP) treatment combined and Calcium Chloride (CACL2) on slowing ripening process and shelf life extension of Booth7 Avocado (Persea americana Mill.) after harvest		
ET22	Hoang Thi Hong Van	Can bio-drying be the solution for DSW-based RDF?		
ET23	Pham Nguyet Anh	Area source emission inventory for air quality management: a case study of Vinh Phuc province, Vietnam		
	Discussion of Posters from ET17	to ET23 (13:07 - 13:15)		



Environmental



Architecture, regional design, Co-chairs: Yuto Tada and disaster prevention

Tran Ha Quan

U	Technology II	and disaster prevention	GSGES, Kyoto University	Danang University of Science and Technology		
	Introduction of co-chairs and session (12:00 - 12:05)					
ET24	Keika Sato	A Study of the Local Stone Industry and its Use in the Community -A Study of the Kitahira District				
ET25	Chawin Chantharasuphit	Architectural and Space Design in Temporary I				
ET26	Shuwei Yang	Preserve or Abandon: A Study on Hearth Tran Context	sformations of the Wa Ethnic Group	in Southwest China under Post-Resettlement		
ET27	Jakkai Srivanichsakulchai	Renovation buildings with carbon reduction pri	nciples			
ET28	Asaka Jobe	Survey on piloti architecture in flood-prone are	as -A case study from Hitoyoshi City	, Kumamoto Prefecture		
ET29	Yehong Lai	The transformation of Hakka vernacular archite	ecture - Hakka Weilong House			
ET30	Jakkrit	The use of rubber wood in the development of a	architectural structures			
	Discussion of Posters from ET24 to	o ET30 (12:19 - 12:26)				
ET31	Augusto Cesar Oyama	A foretold human-made disaster: impacts of mega events on housing rights and marginalized groups in Rio de Janeiro, Brazil				
ET32	Jayne Tereza Brito S.	Temporary Emergency Shelter: A case study in Maranhão-Brazil				
ET33	Maria Perez Rodriguez	Post-Disaster Housing Reconstruction in Mexico after the Earthquakes of September 2017				
ET34	Ngo Thi Ngoc Huyen	Study on Housing Model to Cope with Flood at Thua Thien Hue Province	nd Typhoon for Low-income Househ	olds in Quang Vinh Commune, Quang Dien District,		
ET35	Amanda Devina Sihombing	Disaster Preparedness and Local Wisdom for t	ne Community Conservation in a Ru	ral Area of Indonesia		
ET36	Celine Jamin	Human Capital Transferring Thatching Technology	ology- The case study of the Miyama	Kayabuki Thatching Company		
ET37	Awliya Rahmat Erviyus	Informal Architectural Development Prototype	of Informal Urban Village House			
ET38	Yogi Bachtiar	Myth and philosophy: Exploring Architectural and Conservation of historic Mosques in Lombok				
ET39	Xiaolan Yao	Research on the Transformation of Building Sp	ace by Changing Society in Changqi	Village of South Guangdong, China		
	Discussion of Posters from ET31 to	o ET39 (12:44 - 12:51)				
ET40	Medria Shekar Rani	Land Cover Change Analysis of Kampung Batu	Lonceng, Indonesia			
ET41	Naelis Sazqia Kamalin	Spatial Distribution and Driving Factors of Lar	d Use Change in Lebak Regency, In	donesia		
ET42	Passawut Vacharasinthu	Study Method of Vernacular Architecture : Cas	e Study of Buffalo Fighting Stadium	in Koh Samui, Suratthani		
ET43	Qinglong An	Suitability assessment of industrial heritage too	rism of the towns along Chinese Eas	stern Railway in Heilongjiang Province		
ET44	Patricia Pahlevi Noviandri	The Sound of Ramadhan: Perceive Affective As	sessment of Kampung Kauman, Yog	yakarta		
ET45	Eggi Septianto	Exploring the Immaterial Qualities of Bandung's Historic Area: Towards a Multi-Sensory-Based Study in Architecture				



NR13

Natural Resources I

Imelda Irmawati Damanik

Mizue Hayashi



Regional resources management

Co-chairs:

Fundamental Studies of Regional Redevelopment Towards Sustainable Well-being Vitalizing Local Community

Upgrading Informal Settlement Concept with Community Based Design (Case Study: Ledok Timoho Settlement)

Akiko Higashiguchi GSGES, Kyoto University

Andrea Emma Pravitasari IPB University

Introduction	of	co-chairs	and	session	(12:00	- 12:05)

Discussion of Posters from ET40 to ET47 (13:07 - 13:15)

NR01	Cathleen Simatupang	Assessment of PM2.5 morphology and source identification near an industrial area in Thailand using Field Emission Scanning Electron	
		Microscope	
NR02	Bon Haley R. Gumabay	Assessing Spatial Changes and Predicting Land Cover Dynamics in La Mesa Watershed	
NR03	Kheam Soklin	Changes in Soil Fertility: A Case Study From Agricultural Land in Aoral District Kampong Speu Province, Cambodia	
NR04	Ayu Savitri	Dynamics of Land Cover Change, Regional Development, and Its Local Dependence Driving Factors in Bojonegoro Regency	
NR05	A P Wardana	Dynamics of Land Cover, Development Level, and Regional Typology of Central Java Province Based on Sustainable Development	
INKUS		Index	
NR06	Rufaidah Qonita Muslim	Effect of land-use change on chemical properties of volcanic soil	
NR07	Thanakon Sukuman	Spatio-Temporal Dynamics and Prediction of Land Use/Cover Changes in a Depopulating Region: Case of Saijo City, Ehime Prefecture	
NR08	Novella Giovanni Land use changes by informal economic activities in SijunjungRegency, West Sumatra, Indonesia		
Discussion of Posters from NR01 to NR08 (12:21 - 12:31)		to NR08 (12:21 - 12:31)	
NR09	Wen Wang	Land Use Transition in Satoyama and Satoumi in Minamisanriku Town, Miyagi Prefecture	
NR10	Sylvia Zahara	Settlement Development based on Land Capability in Disaster-Prone Area (Case Study: Banda Aceh, Indonesia)	
NP11	Maria Jassica C Cabriel	Temporal analysis of NDVI in a highly disturbed area in Albay, Philippines	

Marie Jessica C. Gabriel Temporal analysis of NDVI in a highly disturbed area in Albay, Philippines Surface Soil Moisture on Landslides Prone Area: How's the distribution?

Unraveling the Presence and Impact of PFAS in Water from Industrial and AFFF Sources Pitchaya Piyaviriyakul Warid Zul Ilmi Identification of Inclusive and Sustainable Water Provision in Coastal Slums towards Realizing a Healthy City in Bandar Lampung Kanika Bimrah Reviving Traditional Water Management Systems in Semi-Arid Regions of India: A Case Study of Jaipur, Rajasthan

Discussion of Posters from NR09 to NR15 (12:45 - 12:54) Chhe Sokhieng Study on Urban Green Development in Siem Reap Town, Siem Reap Province, Case Study on Public Space

Umaira AHMED Historical and Current Use and Management of Mangrove Resources in the Maldives: Case Study of 3 Islands in NoonuAtoll

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NR18	Neysa Yumna Callista	Effects of Vinasse Waste Application for Plant Growth, Soil Physical Properties, Soil Chemical Properties, and Soil Quality	
NR19	Komaki Haruna	The relation of horse-use and the change of natural-resource use and lifestyle -a case of Yamamuro-	
NR20	Adeline Davila Irazabal	The Role of Shrines in Local Revitalization	
NR21	Nguyen Ngoc Tung	Strengthening climate resilience of urban regions in Central Vietnam through nature-based solutions for heat adaptation and air quality improvement	
	Discussion of Posters from NR16 to NR21 (13:06 - 13:15)		

5	

Natural



Natural environment

Co-chairs: Makoto Shibata

Pok Sophak

9	Resources II	and livelihood	GSGES, Kyoto University	Royal University of Agriculture	
	Introduction of co-chairs and sess	ion (12:00 - 12:05)			
NR22	Adisak Taiyawong	Duo-Environments: The Cropping System for Year-Round Morkhor 60 Soybean Variety Production in Northeast Thailand			
NR23	Abil Dermail	Strategies to conserve temperate maize in tropical sa	vanna of Thailand		
NR24	Mail . Dai	Food Estate Development and Institutionalization of	Integrated Pest Management i	n Sungai Mandau District, Siak Regency, Riau,	
NR24	Millenia Dzikra	Indonesia			
NR25	Ngoc Tan Bui	Impact of Methane Fermentation Waste Fluid Applic	ation Rates on Maize Growth	and Nitrogen Fate: A Soil Texture Perspective	
NR26	Jabulani Nyengere	Influence of Spatial Soil Heterogeneity on Crop Resp	onse to Urine Fertilizer Applica	ation	
NR27	Thanarote Sricha	Niaw Dam Chaw Mai Pai 49: The genetic resource to	new ideotype of rice breeding		
NR28	Annisa Hasanah	Rice foodshed of Indonesia's new capital and its rice s	elf-sufficiency towards regional	l sustainable food system	
NR29	Thanaphon Putjaiko	Stigma exsertion creates weedy rice developing phen	otypically mimicry to cultivated	l rice	
NR30	Teppratan Rakvong	Winged bean: a genetic diversity to duo-purpose utili	zation		
	Discussion of Posters from NR22 t	o NR30 (12:23 - 12:31)			
NR31	Dyna Chin	Agricultural and Livelihood Trajectories of Upland fa	rmers In Northwestern, Camb	odia	
NR32	D. '.' H	Assessing the Situation of Impoverished Farming Ho	useholds' Livelihood Capital in	Vulnerable Eco-regions - A Case of Ulanqab City,	
INK32	Peiting Hao	China			
NR33	Tran Thi Quynh Tien	Situation and solutions to develop community based to	ourism in Thua Thien Hue		
NR34	Trang LE	Climate vulnerability of coastal communities in Da N	ang City, Vietnam		
NR35	Sosuke Yamasaki	Evaluation of regional resources by rural communities	s for promoting tourism - A ca	se of Hong Ha commune, Vietnam	
NR36	Adzani Ardhanareswari A.	Exploring The Role of Women Self-help Group in Bo	uilding Rural Community Capa	city	
NR37	Nur Hidayah Djaimin	Social Network Analysis Approach to Improve Regio	nal Islands Connectivity: A Cas	se Study in Maluku Archipelago Area, Indonesia	
	Discussion of Posters from NR31 t	o NR37 (12:45 - 12:53)	1		
NR38	Mutiara Dewi	Assessment of Ecosystem Services at Kyoto University	ty		
NR39	Dinh Dien	Diversity of the Annonaceae in Phong Dien Nature F	leserve, Thua Thien Hue Provi	nce	
NR40	Kanon Tanaka	Have publicity and educational activities on Japanese	giant salamander conservation	in Kyoto raised public awareness of biodiversity	
14140	Manon Tanaka	conservation?			
NR41	Mol Pengkheang	Estimating Leaf Area Index of Cassava Plantation us	ing Aerial Imagery		
NR42	Muhammad Ghozaly Salim	Genetic Identification and Population Structure of Ho	oundshark (Hoshi-zame) in The	Sea of Japan	
NR43	Van Thi Yen	Morphological characteristics and distribution status	of Aquilaria banaensae Phamh.	in Hue Saola Nature Reserve	
NR 44	Bounthavy V.	Growth, Yield Components, and Nutritional Value of Tropical Grass and Leucaena Grown for use as Roughage in Goat Fattening			
	Discussion of Posters from NR38 t	o NR44 (13:07 - 13:15)			

ORAL PRESENTATIONS - Parallel sessions

Global Ecology	Environmental Technology	Natural Resources	
Efforts towards decarbonisation in Asia	Current status of water environment in Asia and countermeasure technologies	Landscape with traditional livelihood in south-eastern Asia	
Coordinator: Gregory Patrick Trencher GSGES, Kyoto University	Coordinators: Taku Fujiwara GSGES, Kyoto University Suwanna Kitpati Boontanon Mahidol University	Coordinator: Shozo Shibata GSGES, Kyoto University	
(13:30 - 13:45) Rizaldi Boer: "Decarbonizing the Agriculture, Forest, and Land	(13:30 - 13:45) Nguyen Thi Thu Huong: "Application of surface-modified nanofiltration membrane for enhanced beauty metals removed from groundwater"	Introduction to session (13:30 - 13:35) (13:35 - 13:50) Mohammad Zaini Dahlan: "Leaditr in decigning Sundayees Leadescape	

Use (AFOLU) sector in Indonesia Toward Net Zero Emission"

(13:45 - 14:00) Hoang Cong Tin:

"Carbon storage capacity of seagrasses at Lang Co Lagoon, Thua Thien Hue province"

(14:00 - 14:15) Manuela Gertrud Hartwig:

"Energy (In)Justices and Challenges to Japan's Decarbonization"

(14:15 - 14:30) Diomedes Racelis:

"GHG Emission of the UPLB College of Forestry during the Pandemic"

for enhanced heavy metals removal from groundwater

(13:45 - 14:00) Le Cong Tuan: "Applying indigenous bacterial strains to improve the efficiency of biofloc shrimp farming in Thua Thien Hue province"

(14:00 - 14:15) Kaung Htet Swan: "Solution for urban wastewater management in developing countries: A case study of the decentralized system in Yangon"

(14:15 - 14:30) Wang Wen-Long:

"Chemical oxidations for the removal of recalcitrant trace contaminants in reclaimed water"

(14:30 - 14:45) Tran Ha Quan: "The ability of reusing municipal treated water for irrigation the landscaping in Vietnam. The research in constructed wetland in municipal wastewater treatment plant, Danang city"

"Locality in designing Sundanese Landscape: Study of Disaster, Ecology, and Society"

(13:50 - 14:05) Jan Joseph Dida:

"Assessing Landscape and Ecosystem Services Dynamics in Cagayan de Oro River Basin"

(14:05 - 14:20) Tran Phuong Nhi:

"Community-based tourism potential at Ru Cha mangrove ecological forest in Huong Phong commune, Thua Thien Hue province, Vietnam"

(14:20 - 14:35) Chin Dyna:

"Agricultural and Livelihood Trajectories of Upland Farmers in Northwestern, Cambodia"