







16th INTERNATIONAL CONFERENCE OF THE EAST AND SOUTHEAST ASIA FEDER ATION OF SOIL SCIENCE SOCIETIES



Healthy Soils for Sustainable Development

MARCH 26-29, 2024, Convention Center Thai Nguyen University,

Vietnam

PROGRAM BOOK

The Organizers





Vietnam Society of Soil Science (VSSS),

The East and Southeast Asia Federation of Soil Science Societies (ESAFS),
That Navyon University (TNIII)

Thai Nguyen University (TNU),

In collaboration with











Soils and Fertilizers Institute (SFI),

Thai Nguyen University of Agriculture and Forestry (TUAF),

Thai Nguyen University of Education (TNUE),

International School of Thai Nguyen University (ISTNU)

International Union of Soil Sciences (IUSS)

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ESAFS 2024
Documents

ESAFS 2024 Healthy Soils for Sustainable Development

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Prof. Hoang Van Hung

ESAFS 2024 Chairman

"Xin chào" and warm greetings to dear scientists, colleagues and friends. We hope you and your loved ones are safe and healthy.

It is a great honor by the Conference Chairman' Prof. Hoang Van Hung to host the 16th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS 2024) in Thai Nguyen University, Thai Nguyen city, Vietnam on the March 26-29th 2024.



"Healthy Soils For Sustainable Development" is the theme of ESAFS 2024. ESAFS 2024 is dedicated to the exchange of recent advances in soil science among soil scientists within the East and Southeast Asian regions and between the region and all over the World. The conference provides a platform for interaction among scientists, academician, consultants, and policy makers, who are responsible for the research and technology transfer of soil science, fertilizer management, and plant nutrition in order to cope with the rapid industrial development. Besides the conference program, attendees may have opportunities to visit many of the spectacular tourist sites in Thai Nguyen province and, Ha Long Bay, as well as other regions in the Northern region of Vietnam. Delegates to this year's ESAFS 2024 can option for a full experience in in-conference educational trip in Tan Cuong commune, as well as the Post-conference tour in Ha Long Bay, Ha Long city - A UNESCO World Heritage. In addition, some of the most distinguished worldrenowned experts in the fields of Soil Science and Healthy Soils will deliver keynote speeches. Therefore, we warmly look forward to your participation in ESAFS 2024. Welcome to the 16th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS 2024).

We look forward to seeing you in Thai Nguyen city - Vietnam.

Prof. Hoang Van Hung

President of Thai Nguyen University (TNU)

DAIHOC

Chairman of 16th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS 2024) https://esafs2024.tnu.edu.vn/

MESSAGE



Vietnam Society of Soil Science's President

Prof. Vu Nang Dzung President of Vietnam Society of Soil Science (VSSS)



On behalf of the leaders of the Vietnam Society of Soil Science (VSSS), Vietnamese soil scientists and more than 500 members of the Society and 25 society branches, I would like to send my warmest congratulations to the distinguished guests, presidents of ESAFS member/society/soil science associations; delegations from friendly countries, scientists in and out of the ESAFS community and all delegates of the conference are here present.

The ESAFS conference has taken place every 2 years since 1991, and this time is the 16th, but the first time to be held in Vietnam. For this, we would like to sincerely thank the great effort of Thai Nguyen University for hosting the event together with the Vietnam Society of Soil Science and organizing it in the beautiful and hospitable Thai Nguyen City. Together, we send our sincerely gratitude to FAO's forces in joining us for the organization of this important conference.

We look forward to learn more than 150 scientific reports and high-quality discussions on 15 topics covered soil health for sustainable development in both oral and poster presentation that will take place in the next two days on the hottest issues related to soil science, soil health in relation to the environment, plant life, people and the climate.

We also prefer international delegates to have time to visit, learn more about the country and its people at the in-conference trip during the event and more for delegates who may participate in the post conference trip events.

We hope that the cooperation of our scientists will deepen and contribute better to the sustainable development of the region and the whole world.

We wish you all good health and the wonderful success of the ESAFS 16th

Conference./.

Prof. Vu Nang Dzung

TRUNG GON

President of Vietnam Society of Soil Science (VSSS)



MESSAGE FAO's Representative in Viet Nam

Dear Colleagues,

The Food and Agriculture Organization of the United Nations (FAO) is pleased to contribute to the organization of the 16th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS 2024). This biannual event serves as a vital platform, bringing together soil scientists from across the region to engage in discussions, share expertise, and disseminate knowledge and technology in the field of soil science.



Healthy soils are cornerstones of life, supporting agriculture, water purification and regulation, and biodiversity, regulating the climate and increasing ecosystems' resilience to extreme weather events and climate change. Despite their fundamental importance for sustainable ecosystems and human activities, soils face threats from both natural and human-induced degradation factors. About 33% of the global soils are already degraded, and the trend is accelerating. In recent decades, the status of soil fertility has declined due to unsustainable soil management practices, causing a drastic decline in food vitamin and nutrient content. Because 95 percent of the food we eat comes from the soil, it is imperative to address the above challenges and promote effective and sustainable management practices to protect our soil while ensuring a sustainable and food secure world for all.

At the global celebrations marking **World Soil Day 2023** on 5 December 2023, FAO Director-General Dr. QU Dongyu said "Healthy soils and water directly impact the quantity and quality of our food and will determine the future of our agrifood systems. We must work together to find innovative ways to produce more food using less water and in harmony with our soils". In this connection, FAO plays a pivotal role in addressing global soil challenges. As the leading international agency dedicated to food and agriculture, FAO focuses on promoting sustainable soil management practices, addressing soil degradation, and enhancing soil health.

Through research, capacity building, and policy advocacy, FAO works closely with member countries and other key stakeholders to develop strategies for preserving soil fertility and soil biodiversity, combating soil threats such as erosion, and ensuring the long-term sustainability of agrifood systems. FAO's initiatives like the Global Soil Partnership contribute to global efforts aimed at transforming agrifood systems to achieve better production, better nutrition, a better environment and a better life for all, leaving no one behind. Through its offices, FAO operates at global, regional, and national levels in partnership with governments, international organizations, civil society, academia, research centers and famers' cooperatives.

In Vietnam, agricultural productivity confronts significant challenges stemming from soil erosion, nutrient depletion, pollution, and unsustainable practices, contributing to degradation. Compounding these issues is a deficiency in comprehensive data and monitoring systems, impeding effective management. In response to these challenges, FAO has initiated various national projects, spanning soil assessment, monitoring, and capacity building. Currently, FAO is assisting the Government in formulating a National Soil Health Strategy (NSHS) and a National Plan for Soil Health Management (NP-SHM), aligning with the "One Health" approach.

FAO remains committed to foster ongoing collaboration with Governments and interested partners to advance sustainable soil management. We are very pleased to join forces with the Vietnam Society of Soil Science (VSSS) and Thai Nguyen University in the organization of this important conference.

Yours sincerely,

Rémi Nono Womdim, Ph.D. FAO Representative in Viet Nam



MESSAGE International Union of Soil Sciences's President

Dr. Edoardo A.C. Costantini

President, International Union of Soil Sciences- IUSS

Dear Esteemed Colleagues,

On behalf of the International Union of Soil Sciences (IUSS), it is with great pleasure and enthusiasm that we extend our warmest



congratulations to the 16th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS 2024), hosted by Thai Nguyen University of Agriculture and Forestry (TUAF) and organized by the Vietnam Soil Science Society (VSSS) and its branch in Thai Nguyen.

We applaud the dedication and efforts of the organizers, General Chairs, and all participants involved in making ESAFS 2024 a reality. Your commitment to advancing soil science and promoting collaboration within the region is truly commendable.

Furthermore, we express our sincere hope that the Soil Science Society of Vietnam (VSSS) will soon attain full membership within IUSS. We eagerly anticipate the opportunity to collaborate closely with VSSS and its nominated representatives for international affairs. Such collaboration will undoubtedly facilitate the exchange of knowledge and foster stronger ties between VSSS and IUSS in the future.

Looking ahead, IUSS eagerly anticipates collaborating with VSSS for the 23rd World Congress of Soil Science in 2026 and other preparatory activities, including Inter-Congress 2024 in China next October. As a full member of both IUSS and ESAFS, VSSS will play a pivotal role in shaping the future of soil science on a global scale.

We live in times of change. The ambition of the IUSS is to remain the global voice of Soil Scientists, ensuring the integration of Soil Science into policy decisions at all levels, in a scientific and political arena that sees soil becoming more and more of interest for global institutions, governments, and private companies.

The IUSS also aims to advocate for the recognition of soil as a vital resource, comparable to water and air, for sustainable management and conservation. Food security, the fight against desertification, combating climate change and loss of biodiversity, improving the well-being and health of citizens, recycling of effluents and organic materials, hydrogeological protection, and water safety, are all global challenges that cannot be achieved without deep scientific soil knowledge. It is our obligation to provide this knowledge in an effective, unbiased, and convincing way.

Once again, congratulations on the success of ESAFS 2024, and we extend our best wishes for continued success in all your endeavors.

Warm regards,

Bloans Al Grantini

Dr. Edoardo A.C. Costantini - President, International Union of Soil Sciences (IUSS)



KEYNOTE SPEAKERS

Prof. Ravi Naidu

Former Chair of the International Union of Soil Sciences Commission for Soil Degradation Control, Remediation and Reclamation.

Professor Ravi Naidu is a Global leader in soil contamination studies, studying agricultural and industrial impacts on the environment.



Professor Ravi Naidu is the Chief Executive Officer (CEO), Managing Director and Chief Scientist of the Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE), and Global Innovation Chair and Director of the Global Centre for Environmental Remediation (GCER) at University of Newcastle (UoN), Australia. Professor Ravi Naidu (MSc, PhD, DSc) has more than 25 years of experience in soil chemistry, bioavailability and bio-accessibility of contaminants in terrestrial and aquatic environments. He has global recognition in this field and currently is Chair of the International Committee on Bioavailability and is the past President of the International Society in Trace Element, Biogeochemistry and Commission on risk and reclamation of degraded land. He has supervised over 50 PhD students, 24 post docs and is author of more than 600 journal articles.



KEYNOTE SPEAKERS

Prof. Xiaoyuan Yan

Deputy Director of Institute of Soil Science, Chinese Academy of Sciences Vice President and Secretary-General of Soil Science Society of China



Prof. Xiaoyuan Yan currently works at the Institute of Soil Science, Chinese Academy of Sciences, a professor of Soil Science and Environmental Science in the University of Chinese Academy of Sciences. He obtained his PhD from Chinese Academy of Sciences in 1998, and worked in Japan as a post doctor and research scientist for seven years, became a professor of the Institute of Soil Science, Chinese Academy of Sciences in 2006. Prof. Yan is a soil biogeochemist, works on carbon and nitrogen cycling, with special focus on mitigation of greenhouse gas emission and non-point source pollution. He has published more than 180 papers in international peer reviewed journals including Nature, Nature Food, Nature Geoscience, PNAS and etc.

Prof. Xiaoyuan Yan's research focuses are impacts of human activities on soil nitrogen and carbon biogeochemistry cycle; greenhouse gas emission; atmospheric nitrogen deposition; assessment and controls on point and non-point nitrogen pollutions and environmental management. He has published more than 180 internationally peer reviewed journal papers, with more than 13500 citations and an H-index of 55 (web of science).



KEYNOTE SPEAKERS

Prof. Steve Shirtliffe

Project Co-Lead, Crop Phenometrics Platform – Leveraging Field Phenomics tor Advancing Key Rotational Crops,

College of Agriculture and Bioresources

University of Saskatchewan, Canada



Steve Shirtliffe is a Professor in the Department of Plant Sciences at the University of Saskatchewan. Prof. Shirtliffe's primary area of research is in field crop agronomy, about which he has been conducting field-based research for over 20 years, gaining extensive experience in small plot crop agronomy. His position involves teaching, research and outreach in the areas of agronomy and weed control. Prof. Shirtliffe's past and current research projects have focused on the ecology and control of volunteer canola, cereal and pulse and oilseed agronomy, non-herbicidal weed control and agronomic applications of unmanned aerial vehicles (UAVs) or drones. Steven Shirtliffe currently works at the Department of Plant Sciences, University of Saskatchewan. Steven does research in cultural weed control, volunteer canola, crop agronomy and aerial crop imaging and phenotyping. We currently have projects in all these areas.



KEYNOTE SPEAKERS

Dr. Umakant Mishra

Principal Member of Technical Staff, Computational Biology & Biophysics



Dr. Umakant Mishra is a computational soil scientist, who studies land use and climate change impacts on soil properties and functions. Using field observations, remote sensing and environmental datasets, and geospatial and process-based modeling he quantifies anthropogenic and climatic impacts on the soil system. He has published studies on land use and climate change impacts on soil system, lifecycle analysis of bioenergy crops, spatial prediction of soil properties at regional and national scales, and benchmarking earth system model projections.



KEYNOTE SPEAKERS

Prof. Dang Van Minh

Former Deputy President of Thai Nguyen University (TNU) Founding member of the Institute for Agricultural and Rural Planning

Prof. Dang Van Minh has been working in Agriculture and Forestry university - Thai Nguyen University, Vietnam since



1983. He has worked in various field of education and management. He has done well on the university management and also on teaching and researching. His deep expertise focuses on soil science, with particular research on slopping agricultural land, soil quality and soil heavy metal treatment. He has published more than 100 papers in National and International Journals, 9 books and textbooks. He has conducted a lot of works with GOs and NGOs project/programs in rural development, resources and environmental protection related to sustainable agriculture, food security and food safety. His has contributed excellent works on socio-economic development in the Northern Mountainous Region of Vietnam.



KEYNOTE SPEAKERS

Assoc. Prof. Tran Minh Tien

Director of the Soil and Fertilizers Institute (SFI),

Vietnam



Associate Professor, Dr. Tran Minh Tien was born in 27 September 1974. He has been working for the Soils and Fertilizers Institute since 1996 and holding the director position of the institute since 2020.

Dr Tien got his PhD degree in soil fertility and plant nutrition from the Copenhagen University in 2009. His main research subjects are soil fertility and plant nutrition. Dr. Tien has been involved in 76 research projects (41 as project leader) since 1996, of which 6 projects are currently running. He has published 150 publications in peer-reviewed journals, scientific journals, chapters in books and proceedings.



SUBTHEMES OF SESSION

Healthy Soils for Sustainable Development

SESSION 1: Soil Health; Soil Ecology and Biodiversity

SESSION 2: Soil Fertility and Plant Nutrition

SESSION 3: Soil Classification and Mapping; Soil Evaluation and Land

Use; Information on Upland Soils; Serpentine Soils and Wetland

SESSION 4: Mitigation and C-Sequestration in Soil-Plant System;

Land Use to Respond to Climate Change and Sea Level Rise

SESSION 5: Soil Pollution; Soil Degradation and Remediation; Recent

Advances in Soil Research

SESSION 6: Land Governance; Land Policy and Education on Land

Management



International Committee of ESAFS

Prof. Hung-Yu Lai (Chinese Society of Soil and Fertilizer Sciences - CSSFS, Taiwan)

Dr. Dipak Ranjan Biswas (Indian Society of Soil Science – ISSS, India)

Prof. Budi Mulyanto (Indonesian Society of Soil Science – ISSS, Indonesia)

Prof. Toru Fujiwara (Japanese Society of Soil Science and Plant Nutrition – JSSSPN, Japan)

Dr. Edoardo A.C. Costantini (International Union of Soil Sciences- President – IUSS)

Dr. Byung Keun Hyun (Korean Society of Soil Science and Fertilizers – KSSSF, Korea)

Prof. Rosazlin Abdullah (Malaysian Society of Soil Science – MSSS, Malaysia)

Prof. Keshav Raj Adhikari (Nepalese Society of Soil Science – NSSS, Nepal)

Dr. Karen S. Bautista (Philippine Society of Soil Science and Technology – PSSST, Philippine)

Dr. Audthasit Wongmaneeroj (Soil and Fertilizer Society of Thailand- SFST, Thailand)

Prof. S.M. Imamul Huq (Soil Science Society of Bangladesh – SSSB, Bangladesh)

Prof. Xiaoyuan Yan (Soil Science Society of China – SSSC, China)

Dr. Orchurbat Batkhishig (Soil Science Society of Mongolia – SSSM, Mongolia)

Prof. Warshi Dandeniya (Soil Science Society of Sri Lanka – SSSSL, Sri Lanka)

Prof. Vu Nang Dung (Vietnam Society of Soil Science – VSSS, Vietnam)

International Advisory Committee

- Prof. Ravi Naidu (Australia)
- Prof. Jae E. Yang (South Korea)
- Prof. Xiaoyuan Yan (China)
- Prof. Zeng-Yei Hseu (Taiwan)
- Dr. Edoardo A.C. Costantini (IUSS)
- Dr. Umakant Mishra (USA)

Local Organizing Committee - Scientific responsibility:

Chairman: Prof. Hoang Van Hung, Thai Nguyen University, Vietnam

Vice-Chairman: Prof. Nguyen The Hung, Thai Nguyen University of Agriculture and Forestry, Vietnam

Vice-Chairman: Prof. Vu Nang Dung, Vietnam Society of Soil Science

Secretary: Dr. Duong Van Thao and Dr. Nguyen Ngoc Son Hai, Thai Nguyen University of Agriculture and Forestry, Vietnam

Assistant Secretary: Dr. Nguyen Thi Giang, TUAF, Vietnam

Members of Scientific Local Organizing Committee

Assoc. Prof. Le Minh, Dr. Hoang Huu Chien, Dr. Nguyen Duy Hai, Dr. Tran Huu Tuan

Conference Secretariat

Prof. Nguyen The Hung, Dr. Mai Anh Khoa, Dr. Duong Van Thao, Dr. Nguyen Ngoc Son Hai, Dr. Nguyen Thi Giang, Dr. Nguyen Thi Thu Hoai, Dr. Tran Thanh Thuong

Treasurer

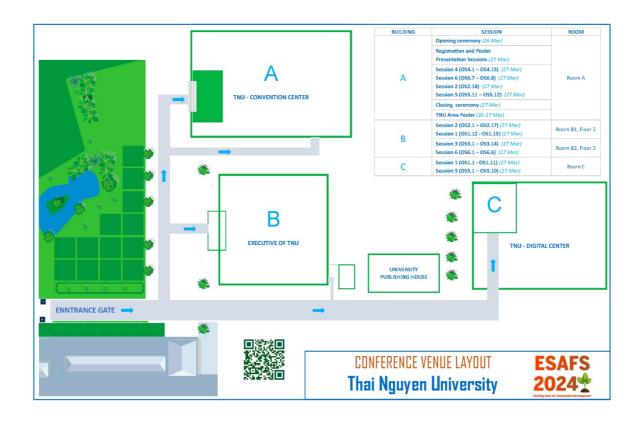
Dr. Mai Anh Khoa, Dr. Nguyen Hong Lien, Msc. Le Hoai Anh

Publicity

Dr. Duong Van Thao, Dr. Nguyen Ngoc Son Hai, Mr. Nguyen Tran Quang, Viet Bac Media



CONFERENCE VENUE LAYOUT





ESAFS CONFERENCE PROGRAMME

ESAFS 2024 CONFERENCE PROGRAM

	MONDAY, 25 March 2024
15.00-17.00	Registration and Welcoming Reception
13.00-17.00	(May Plaza and TNU's Main Hall of Convention Center)
18.30-20.30	Reception Party (May Plaza)
	26 March 2024 (Convention Center, Thai Nguyen University)
7.00-8.00	Registration
8.00-8.30	Opening ceremony
	Welcoming speech by Prof. Hoang Van Hung (President of Thai Nguyen University)
	Welcoming speech by Prof. Vu Nang Dung, President of Vietnam Society of Soil Science, VSSSVietnam
	Remark welcome speech from FAO by Mr. Nguyen Song Ha, Assistant to FAO Representative
	Welcoming speech by Dr. Edoardo A.C. Costantini (President, International Union of Soil Sciences- President – IUSS)
	Keynote Speech
	hair: Prof. Nguyen The Hung/ Prof. Toru Fujiwara
8.30-9.00	Keynote Speech 1
	Prof. Steve Shirtliffe (Canada)
0.00.0.20	Title: Precision agriculture in soil, plant nutrition and fertilizers.
9.00-9.30	Keynote Speech 2
	Prof. Xiaoyuan Yan (China)
0.20.10.00	Title: How to Achieve Carbon Neutrality in Staple Food Production in China
9.30-10.00	Keynote Speech 3
	Prof. Dang Van Minh (Vietnam)
	Title: Heavy metal pollution: Current situation, challenges and solutions
10.00.10.20	for agricultural land in Vietnam
10.00-10.30	Group photo & Tea Break
10.30-11.00	Keynote Speech 4
	Dr. Umakant Mishra (USA)
	Title: Current knowledge on the storage and fate of organic carbon in
11.00.11.20	global soils.
11.00-11.30	Keynote Speech 5
	Assoc. Prof. Tran Minh Tien (Vietnam)
12.00.12.20	Title: Soil health in Vietnam - Current status and solutions
12.00-13.30	Lunch (TNU Convention Centre – Main Hall)
13.30-16.30	In-conference Educational Trip in the ESAFS 2024 conference
10 20 21 00	Chair: Prof. Dang Van Minh / Dr. Hoang Huu Chien
18.30-21.00	Farewell Dinner (Sen Ho Gardens and Restaurant)
	Chair: Dr. Mai Anh Khoa

WEDNESDAY	, 27 March 2024 (Convention Center, Thai Nguyen University)
8.00 - 8.30	Registration and Poster Presentation Sessions
	(TNU's Main Hall of Convention Center)
8.30 - 9.30	Oral Presentation Sessions (1)
9.30 - 10.00	Tea Break
10.30 - 11.45	Oral Presentation Sessions (2)
10.30 - 11.45	Parallel ESAFS Business Meeting during the Conference
	with the Presence of President of Member Societies
	Chairman: Prof. Nguyen The Hung / Prof. Vu Nang Dzung
12.00 - 13.30	Lunch party (TNU's Main Hall of Convention Center)
13.30 - 15.00	Oral Presentation Sessions (3)
15.00 - 15.30	Tea Break
15.30 - 16.30	Oral Presentation Sessions (4)
16.30 - 16.45	Awarding prizes in ESAFS 2024 Award & Certificates
	Chair: Prof. Hoang Van Hung
	Main Hall of Convention Center, Thai Nguyen University
16.45 - 17.00	Closing speech and Awarding country for the 16th Organization of
	ESAFS 2026
	Chair: Prof. Nguyen The Hung
	Main Hall of Convention Center, Thai Nguyen University
18.00-21.00	Gala dinner
	Chair: Prof. Hoang Van Hung
	May Plaza Hotel

ORAL PRESENTATION SESSION

	WEDNESDAY, 27 Mar	ch 2024 (Convention Ce	nter, Thai Nguyen Un	iversity)
Room	TNU's Meeting	TNU's Meeting	TNU's Meeting	TNU's Meeting
	Room C	Room B1, Floor 5	Room B2, Floor 5	Room A
	(C Building)	(B Building)	(B Building)	(A Building)
Session	Session 1 : Soil health;	Session 2 : Soil	Session 3: Soil	Session 4: Mitigation
	Soil ecology and	fertility and Plant	classification and	and C-Sequestration
	Biodiversity	nutrition	mapping; Soil	in soil-plant system;
			evaluation and land	Land use to respond
			use; Information	to climate change
			on upland soils;	and sea level rise
			Serpentine soils	
			and Wetland	
Chair	Prof. Byung Keun	Prof. Steve Shirtliffe/	Prof. Zeng-Yei	Prof. Xiaoyuan Yan/
Persons	Hyun / Dr. Nguyen	Assoc. Prof. Tran	Hseu / Prof. Dang	Prof. Pham Quang
0.20 0.45	Dinh Cong	Minh Tien	Van Minh	На
8.30 - 8.45	OS1-1	OS2-1	OS3-1	OS4-1
	Soil microbial	Cyclical use of	Fractionation and	Agroforestry
	community, carbon use efficiency and	unutilized organic fertilizer resources in	potential risk of rare earth elements	provides long-term income and
	use efficiency and turnover rate under			
	different soil pH in	Japan Feasibility of "Strategy for	in soils derived from felsic to	sustainability over monoculture in
	Subtropical	Sustainable Food	ultramafic parent	Northwest Vietnam
	Okinawa, Japan	System"	rocks	Northwest vietnam
	Okinawa, sapan	System	TOCKS	Nguyen La, Hung Van
	Sugihara S , Fuchigami	Shin-ichiro Mishima	Wu, C.Y., Yang,	Do
	K, Seki M, Jegadeesan		C.Y., Cascante,	Do
	M, Kannan P,		M.D., Liao, W.A.,	
	Hamamoto T , Ikazaki		Hum, H.Z., Wu,	
	K, Arai M, Tanaka H		J.Y., Huang, K.F. &	
	, ,		Hseu, Z.Y.	
8.45 - 9.00	OS1-2	OS2-2	OS3-2	OS4-2
	The effects of	Bioavailability and	Effects of drip	Roles of Soil Particle
	multiple inter-tillage	Physiological Effects	irrigation and	and Soil Aggregate
	weeding on	of Ce, Gd, and Y to	nitrogen	Size Distribution on
	greenhouse gas	Brassica rapa in Soil-	management on	Organic Carbon
	emissions in no	plant System	maize yield and soil	Sequestration under
	fertilizer and		nitrous oxide	46-years Long-term
	pesticide rice paddy	Wu, P.H. & Hseu, Z.Y.	emissions under	Experiment in
	field- Results from		equal nitrogen	Thailand
	four consecutive			
	years		Wei Xiao, Fusheng	Tantarawongsa, P.,
			Li	Chidthaisong, A.,
	Namie, H., Shimada, K.,			Aramrak S., Sriphiroom
	Zhao, S., Toma, Y.,			P., Nobuntou W., and
	Ishiguro, M., Hatano R.			Amonpon W.

0.00 0.15	001.2	002.2	002.2	004.2
9.00 - 9.15	OS1-3 Soil Tillage and	OS2-3 Differences in	OS3-3 Nitrogen cycling	OS4-3 Effect of different
	Soil Tillage and Application of		Nitrogen cycling patterns in tropical	organic fertilizer on
	Organic Materials on	• •	forests: A	soil organic carbon
	Oil Palm Plant disc	greenhouse gas emissions between	comparative study	transformation and
	and their Effects on	aerobic and	of Oxisols and	soil CO2 emission
	Soil Properties	anaerobic composting	Ultisols under	son CO2 chiission
	Son 1 Toperties	of cattle waste in	similar soil acidity	Yilin Yang, Norikazu
	Sabrina, T, Sembiring,	Central Vietnam	Similar son actairy	Yamaki, Katsuro
	M, and Nyak Akoeb, E	Contrar vicentin	Shibata, Johno,	Taira, Masato Kawai,
	iii, and i vyak i ikoto, E	Tran Thi Minh Chau,	Watanabe, Nguyen,	Yo Toma
		Takashi Someya,	H.L & Funakawa	
		Satoshi Akao, Masato		
		Nakamura, Fumiko		
		Oritate, Hiroaki		
		Somura, Nguyen Thi		
		Minh Nga, Nguyen		
		Duc Huy, Morihiro		
		Maeda		
9.15 - 9.30	OS1-4	OS2-4	OS3-4	OS4-4
	Field-scale soil	Mineral contents in	Soil correlation for	Factors affecting the
	salinity prediction	agricultural soils	soil properties	amounts and
	using machine	determined by X-ray	prediction	turnover rates of soil
	learning algorithms in the prairie area of	powder diffraction analysis and their	Vo Quang Minh, Le	organic carbon fractions in paddy
	Saskatchewan,	relations to selected	Dang Long, Pham	fields across Asian
	Canada	soil properties in	Huu Phuoc, Pham	countries
	Cumuu	Japan	Cam Dang , Mai	Countries
	Ha, T., Nketia, K.A.,	- · · · · · · · · · · · · · · · · · · ·	Nhut Au	Yanai, J. Suzuki, A.,
	Fernando, F., Shirtliffe,	Kurokawa Kohei,		Nakao, A., Tanaka, S.,
	S.J.	Atsushi Nakao, Kazuki		Wagai, R.,
		Azuma, Atsuhito		Sriprachote, A.,
		Suzuki, Shigeto Fujimura,		Timbas, N., Tan, N.P.,
		Shokichi Wakabayashi,		Vista, S.P., Paneru, P.,
		Junta Yanai		Hseu, Z.Y., Kim, P.J.,
			_	Arai, H & Tayasu, I.
9.30 - 10.00		Tea Br		
Room	TNU's Meeting	TNU's Meeting	TNU's Meeting	TNU's Meeting
	Room C	Room B1, Floor 5	Room B2, Floor 5	Room A
	(C Building)	(B Building)	(B Building)	(A Building)
Session	Session 1 : Soil health;	Session 2 : Soil	Session 3: Soil	Session 4: Mitigation
	Soil ecology and	fertility and Plant	classification and	and C-Sequestration
	Biodiversity	nutritions (Continue)	mapping; Soil	in soil-plant system;
	(Continue)		evaluation and land	Land use to respond
			use; Information	to climate change
			on upland soils;	and sea level rise
			Serpentine soils and Wetland	(Continue)
			(Continue)	
Chair Persons	Prof. Jae E. Yang/	Prof. Hideto Ueno /	Prof. Zeng-Yei	Prof. Kwon-Rae Kim
Chan I Crouls	Assoc. Prof. Mai Van	Dr. Ha Xuan Linh/	Hseu /Dr. Nguyen	/Prof. Vo Quang
	Trinh	Dr. Nguyen Quang Ha	Quoc Dinh	Minh
I			-	

10.00 – 10.15	OS1-5	OS2-5	OS3-5	OS4-5
10.00 – 10.13	Conservation	Effect of organic	Overview of soil-	Soil Carbon Check:
	Agriculture minimizes	matter application on	based functions in	A Tool for
	negative nitrogen	the nitrogen budget in	serpentine	Monitoring Soil
	balance and increases	a field with paddy-	ecosystem	Carbon
	nitrogen use efficiency	upland rotation on		Sequestration and
	and soil carbon stock	gray lowland soil in	Hseu, Zeng-Yei	Giving Guidance for
	in rice paddy systems	northern Japan		Soil Health Solutions
	M. Jahiruddina, M. M.	Takakai, F, Kohsaka,		Chon, N.Q.,
	R. Jahangira, M. A.	Y, Yamamoto, A.,		Reijneveld, J.A., van
	Kaderbc, M. A.	Suzuki, S, Kanamaru-		Oostrum, M.J.,
	Haqued, M.E. Haque,c,	Ogaya, S., Aono, Y.,		Brolsma, K.M.&
	and R.W. Bellc	Hatakeyama, K.,		
		Nakagawa, S., Tanaka,		
10.15 – 10.30	OS1-6	S., Kaneta, Y., Sato, T. OS2-6	OS3-6	OS4-6
10.13 – 10.30	Some organic	The double pot	Modeling for the	Effect of long-term
	manures contribute	technique identified	smart and rapid	land management
	excellent charges on	multiple nutrient	screening fertility	and residue quality
	soil system and	deficiencies in sands	of rural soils from	on in-situ SOC
	improve crop	of south-central	serpentines in	accumulation in
	productivity	coastal Vietnam for	Taiwan and	Andosols, Japan, by
	Dr. Sanjib kar	crop production	Vietnam	using 13C/15N- labeled residue
	D1. Sunjio kui	Hoang, T.T.H.,	Yang, C.Y. and	indeled residue
		Nguyen, V.B., Trinh,	Hseu, Z. Y.	Hideaki Yasuno,
		T.S., Mann, Surender		Haruo Tanaka, Soh
		& Bell, R.		Sugihara
10.30 - 10.45	OS1-7	OS2-7	OS3-7	OS4-7
	Change of Population and Characteristics of	Investigation of Rice Husk Biochar	Effects of AigamoRobo,	Studies on the use of locally available
	Non-Symbiotic	Application with or	Automatic Weed	(Coxs Bazar and
	Bacteria in Tropical	without Organic	Supression Robot,	Saint Martin)
	Peat soil by	Manures and their	in an organic paddy	renewable seaweed
	Application od Soil	Effects on Soil	field	wastes as compost
	Ameliorant and	Chemical Properties	N. 1.1 N. 1.1	organic fertilizer
	Nitrogen Fertilizer	Changes, Growth of Paddy Rice and	Mizuhiko Nishida, Ayako Sasaki,	resources
	Joko Tandiono,	Paddy Rice and Greenhouse Gas	Ayako Sasaki, Yoshiki Tokonami	Durlave Roy
	Thamrin, Hapsoh,	Emissions	1 John Tokonum	Daria (Citto)
	Trisla Warningsih &			
	Sharakbah Yacob	War War Mon, Hideto		
10.45 – 11.00	001.0	Ueno	002.0	004.0
10.43 - 11.00	0010	OS2-8	OS3-8	OS4-8
	Growth of Seedlings	Nitrogen Management	Geochemical	Carbon sequestration
	of Garcinia atroviridis Griff ex T.	Options for Increasing Nitrogen Use	Characterization of Soils in the	and formation of stable carbon stock
	Anders on Various	Nitrogen Use Efficiency	Soils in the Ophiolite Complex	
	Growing Media and	Efficiency	of Eastern Taiwan	depends on some chemical components
	Applications of	Md. Mizanur Rahman,	oi Lasteili Talwall	of soil which can
	Catappa Leaf Extract	Jonathan Hillier and	Cascante, M.D., Wu,	control climate change
	Catappa Deat Extract	Mohammad Sazzad	C.Y., Hum, H.Z.,	control chinate change
	T. Sabrina, Mariani	Hossain Sazzad	Yang, C.Y., and	Dr. Sanjib kar
	Sembiring, T.	110334111	Hseu, Z.Y	Di. Danjio Kai
1	<u> </u>		11500, 2.1	
	Irmansyah			

11.00 – 11.15		OS2-9	OS3-9	OS4-9
11100 11110		Prediction of Plant	Changing patterns	Soil Health, Carbon
		Available Nutrient	of Ni concentration	Storage (Topsoil and
		Levels Soil Using EC	in soil and rice with	Subsoil), and Crop
		sensor	water management	Yield Improved by
		SCHSUI	in serpentinitic	Biochar: A Solution
		Cu Vyyaana Cin Jaana	_	for Carbon Farming
		Su Kyeong Sin, Jeong Yeon Kim & Jin Hee	paddy soils	for Carbon Farming
			A. 1. N. 1	N1
		Park	Atsushi Nakao,	Nguyen Van Hien,
			Nodoka Harada,	Nguyen Cong Vinh, ,
			Takehiro Masumura,	Tran Sy Hai, , Nguyen
			Tatsuhiro Nishikiori,	Thi Thanh Tam, Mai
			Junta Yanai	Thi Lan Anh, Nguyen
				Thi Van, Tong Thi
				Phu, Joshep Stephen
11.15 - 11.30	OS1-10	OS2-10	OS3-10	OS4-10
	Preliminary assessment	Potential of reducing	Cross-validation	Stability of organic
	through contributions	greenhouse gas	Approaches for	carbon fractions in
	of organic farming to a	emissions in rice	Evaluation of	soils with different
	sustainable	production from	Landslide	arable land uses in
	environment	improved water and	Susceptibility Map	northern Taiwan
		rice residue	Accuracy	
	Darshini, R, Denison,	managements: A case		W.H. Chen and Z.Y.
	J., and Eruthaiaraj, K	study from Vietnam	Van-Trung Chu,	Hseu
			Shou-Hao Chiang,	
		Dao Trong Hung,	and Tang-Huang	
		Nguyen Quang Hai,	Lin, Ngoc-Anh	
		Markus Keck &	Nguyen, Nguyen	
		Daniela Sauer	Quang Thi	
11.30-11.45	OS1-11	OS2-11	OS3-11	OS4-11
	Nematodes associated	Chemical speciation	Establishing	Vietnam's Forest
	with citrus in the	and phyto-	geochemical baseline	Carbon Pools and
	Mekong delta and	availability of legacy	and threshold for	Implication for
	development of a	phosphorus in rice	major and trace	Climate Change
	quantitative detection	paddy soils in Taiwan	elements in Lao Cai	Mitigation
	method for Tylenchulus	-	agricultural soil	-
	semipenetrans Cobb	Shibata, M., Johno, S.,	_	Do Dinh Sam, Vu Tan
	in soil by real-time	Watanabe, S., Nguyen,	Pham Thi Dung,	Phuong, Ngo Dinh
	PCR assay	H.L. & Funakawa, S.	Tran Tuan Anh,	Que
	•	ĺ	Tran Minh Tien,	
	Sinh, N.V., Toyota, K.,		Pham Thanh Dang,	
	Long, N.T., Trung,		Nguyen Thi Lien,	
	N.H., Phuc, P.N.C.,		Nguyen Xuan Qua,	
	Tran, T.H., Ngan,		Doan Thu Tra, Vu	
	D.T.N., Hung, D.G. &		Hoang Ly, Dang	
	Phuong, N.T.K.		Minh Tuan, Tran	
			Trong Hien, Tran	
			Dang Tuan, Nguyen	
			Trong Tai	
			Trong rai	

	WEDNESDAY, 27 Mar	ch 2024 (Convention Ce	nter, Thai Nguyen Uni	versity)
Room	TNU's Meeting	TNU's Meeting	TNU's Meeting	TNU's Meeting
	Room C	Room B1, Floor 5	Room B2, Floor 5	Room A
	(C Building)	(B Building)	(B Building)	(A Building)
Session	Session 5: Soil	Session 2: Soil	Session 6: Land	Session 4: Mitigation
	poluttion; Soil	fertility and Plant	governance; Land	and C-Sequestration
	degradation and	nutrition (Continue)	policy and	in soil-plant system;
	remediation; Recent		Education on land	Land use to respond
	advances in soil		management	to climate change
	research			and sea level rise
				(Continue) + Session
				6: Land governance; Land policy and
				Land policy and Education on land
				management
				(Continue)
Chair	Prof. Hung-Yu Lai /	Prof. Toru Fujiwara/	Prof. Warshi	Prof. Rosazlin
Persons	Prof. Vo Quang Minh	Assoc. Prof. Tran	Dandeniya / Prof.	Abdullah / Prof.
		Minh Tien	Hoang Thi Thai Hoa	Nguyen Ngoc Minh
13.30 - 13.45	OS5-1	OS2-12	OS6-1	OS4-12
	Sediment microbial	Free Energy change	Development of	Effects of plant
	fuel cells with iron	of ion exchange	comprehensive soil	residues quality on
	addition for reduction	reactions and cation	education package	C accumulation
	of phosphorus release	exchange capacity	for achieving SDGs	patterns in the
	in agricultural areas	estimated the		converted cropland
	Manihina Maada	potassium movement	Kosaki, T., Asano,	soil from lowland
	Morihiro Maeda, Gamamada Liyanage	and status in soil	Y., Mori, K. Kadono, A., Asano, M.,	paddy field in Japan
	Erandi Priyangika	Sourav Khan and	Toyota, A., Niwa, K.	Le Van Dang,
	Perera, Nguyen Tu	Sanjib Kar	and Osawa, S.	Matsuura S., Wagai R.,
	Uyen & Tesfau Bekele	Sunjio ikui	ana osawa, s.	Yasuno, H., Tanaka H.,
				Sugihara, S.
13.45 - 14.00	OS5-2	OS2-13	OS6-2	OS4-13
	Influence of long-	Effect of soil P level on	Determination of	Application of
	term fertilization on	in-situ sugarcane-AMF	Tropical Peat Soils	CLUE-Mondo and
	clay mineral transformation in	symbiosis P absorption	Humification Degree	SWAT models to
	transformation in variable charge soils	in tropical alkaline soil, Okinawa, Japan	using Field Emission Scanning Electron	assess land use and climate change
	areas	OKIIIawa, Japan	Microscope	impacts on
	ui cus	Ishii Haruki, Ezawa T,	equipped with	hydrological
	Liang Tao, Hui Li, Yuji	Nakamura M,	Energy Dispersive X-	process and
	Jiang & amp; Dong Liu	Miyamaru N, Tanaka	Ray and Digimizer	potential soil
		H, Sugihara S.	T , 1 , 1 , 1 , .	erosion in Ba river
			Izzatul Akmal Azmi,	basin of central
			Nur Qursyna Boll Kassim, Soon Kong	highland of Vietnam
			Yong & & amp;	Ngo Thanh Son , Hoang
			Osumanu Haruna	Le Huong, Vu Thanh
			Ahmed	Bien, Nguyen Thu Ha,
				Nguyen Duc Loc

14.00 - 14.15	OS5-3	OS2-14	OS6-3	OS4-14
14.00 - 14.13	Enhance the	Effect of rhizosphere	Assessing current	Carbon sequestration
	Detoxification and	nutrient levels on	land use of priorities	in mangrove
	Adsorption Capacity	cherry tomato growth	for change in Nam	plantation sediment
	of Thermoacidophilic Microalgae	and fruit characteristics in a	Nan catchment, Lao PDR	in Red River Mouth, Northern Vietnam
	Cyanidiales by	greenhouse	IDK	Trof thef if victiain
	Oxidizing Fe(II) under	8	Vu Dinh Tuan, Vu	Ha Thi Hien and
	Anaerobic and Acidic	Jeong Yeon Kim, Su	Van Tuan, Nguyen	Nguyen Thi Kim Cuc
	Conditions	Kyeong Sin, Jongwon Park & Jin Hee Park	Ngoc Khanh, Phan Ngoc Minh,	
	Nhu Anh Thi Than, Yen-	Tark & Jili Fice Fark	Sengvilayvanh	
	Lin Cho, Yu-Ting Liu		Singthavikhoune	
14.15 - 14.30	OS5-4	OS2-15	OS6-4	OS6-7
	Silicon	Impact of Methane	Enhancing Soil	Situation of Land
	supplementation for	Fermentation Waste	Temperature	Use Management in
	sustainable yield of crops in coastal	Fluid Application Rates on Maize	Determination using Novel Remote	the New Rural Construction in
	unfavorable ecosystem	Growth and Fate of N	Sensing Indices	Trang Bom District,
	of Bangladesh	with special reference	zenomg murees	Dong Nai Province
	8	to Soil Textures	Bui, H.A., Liou, Y.A.	8
	Haque MA, Hoque			Mai Hai Chau
	MF, Jahiruddin M,	Bui Ngoc Tan, Shibata		
	Hossain MB, Haque	Matoko, Matsubara Keisuke, Fukushima		
	ME, and Bell RW	Keisuke, Fukushima Keitaro, Matoh Toru,		
		Funakawa Shinya		
14.30 - 14.45	OS5-5	OS2-16	OS6-5	OS6-8
	Application of	O	Soil topics as a part	Paired Observations
	phytoremediation	Potential of	of geographical	of Arsenic Speciation
1			0 0 1	
	and chelates to	Alternative Organic	education – current	in Rice Grain, Leaf,
	and chelates to remediate heavy	Alternative Organic Fertilizers in Japan's	education – current state and 'digital	in Rice Grain, Leaf, and Paddy Soil Using
	and chelates to remediate heavy metal contaminated	Alternative Organic Fertilizers in Japan's Strategy for	education – current state and 'digital natives' generation	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-
	and chelates to remediate heavy	Alternative Organic Fertilizers in Japan's	education – current state and 'digital	in Rice Grain, Leaf, and Paddy Soil Using
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P.,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X- ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S.,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. &	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X- ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P.,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X- ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D.,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S.,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. &	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X- ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J.,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S.,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. &	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A.,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S.,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. &	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X- ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J.,
	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N.	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M.	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M.,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N.	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M.	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M.	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M.	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in paddy fields	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district, Thua Thien Hue	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in paddy fields Chunwu Zhu, Wei	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
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14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in paddy fields Chunwu Zhu, Wei Zhou, Chuang Cai,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district, Thua Thien Hue province Le Ngoc Phuong Quy, Duong Thi Thu Ha,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
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14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in paddy fields Chunwu Zhu, Wei Zhou, Chuang Cai, Lian Song, Gang Liu,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district, Thua Thien Hue province Le Ngoc Phuong Quy, Duong Thi Thu Ha, Tran Trong Tan, Nguyen Thi Hai,	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,
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14.45 - 15.00	and chelates to remediate heavy metal contaminated soils in Thai Nguyen mining sites Hai N.N.S., Peter S., Nong N.N., Ravi N. OS5-6 A novel new T-FACE research platform advancing climate change simulation in paddy fields Chunwu Zhu, Wei Zhou, Chuang Cai, Lian Song, Gang Liu,	Alternative Organic Fertilizers in Japan's Strategy for Sustainable Food Systems	education – current state and 'digital natives' generation perspective Charzyński, P., Świtoniak, M. & Urbańska, M. Urbańska, M. OS6-6 Factors affecting the knowledge capacity of cadastral officials in land management in A Luoi district, Thua Thien Hue province Le Ngoc Phuong Quy, Duong Thi Thu Ha, Tran Trong Tan, Nguyen Thi Hai, Pham Huu Ty, Ton Nu	in Rice Grain, Leaf, and Paddy Soil Using High-Resolution X-ray Absorption Near Edge Spectroscopy Halpert, E.J., Ravel, B, Mot, V., Hoeng, S., Snyder, D., McGarry, T.J., Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas,

15.00 - 15.30		Tea Br	reak	
Room	TNU's Meeting	TNU's Meeting	TNU's Meeting	TNU's Meeting
	Room C	Room B1, Floor 5	Room B2, Floor 5	Room A
	(C Building)	(B Building)	(B Building)	(A Building)
	Session 5: Soil	Session 1 : Soil health;	Session 3: Soil	Session 5: Soil
	pollution; Soil	Soil ecology and	classification and	pollution; Soil
	degradation and remediation; Recent	Biodiversity (Continue)	mapping; Soil evaluation and land	degradation and remediation; Recent
	advances in soil	(Continue)	use; Information on	advances in soil
	research (Continue)		upland soils;	research (Continue)
	researen (continue)		Serpentine soils and	researen (continue)
			Wetland (Continue)	
Chair Persons	Dr. Dipak Ranjan	Dr. Karen S. Bautista	Dr.Audthasit	Dr. Umakant Mishra
	Biswas / Dr. Ha Van	/Dr. Hoang Huu Chien	Wongmaneeroj /Dr.	/ Dr. Nguyen Ngoc
	Thuan		Nguyen Duy Hai	Son Hai
15.30 - 15.45	OS5-7	OS1-12	OS3-12	OS5-10
	Research on	Digital soil mapping	World Reference	Application of Spent
	measures to reduce soil degradation for	of Soil pH in the Wet Zone of Sri Lanka	Base for Soil Resources –	Coffee Grounds Can Increase Soil
	vegetable and flower	Lone of Sti Lanka	scientific and	and Clay Losses
	cultivation in	Vitharana, U.W.A,	educational	and Clay Losses
	ferralitic soil in the	Mishra U. and	challenges related to	Do Hong Nhung, Mai
	Central Highlands	Dhananjaya R.G.B.	"illustrated"	V. Ha, Anh T.Q.
	region in Vietnam		databases	Nguyen, Minh N.
			,	Nguyen
	Le M. Chau, Lam V.		Switoniak, M. &	
	Ha, Le T. Binh, Dang		Charzyński, P.	
15.45 - 16.00	M. Nguyet OS5-8	OS1-9	OS3-13	OS5-11
13.43 - 10.00	Influence of organic	Characterizing soil	Soil degradation	Effect of rice
	amendments on soil	bacteria targeting to	status on different	cultivation on
	properties and	develop a biofertilizer	land use types in	abundance of iron-
	bioavailability of	to reduce the use of	Can Tho province,	reducing bacteria in
	heavy metals in the	inorganic phosphorous	Viet Nam	paddy soils
	contaminated soil	fertilizers in paddy		
	NO CL OHVI	cultivation	Le Dang Long, Tran	
	K.S. Chen & H.Y. Lai	Jeewanthi, P.B.D.,	Van Hung, Pham	Feng, Hikaru Asano, Yoshihiro Ohmori,
		Dandeniya Warshi.S.	Thanh Vu, Nguyen Van Hieu,, Nguyen	Yoshihiro Ohmori, Hirotomo Ohba,
		Dandeniya warsin.s.	Trung Hieu, Pham	Yoko Masuda, Keishi
			Cam Dang, Pham Thi	Senoo, Toru Fujiwara
			Thuy Kieu, Vo	, , ,
			Quang Minh	
16.00 - 16.15	OS5-9	OS1-13		OS5-12
	Water erosion	4 per 1000 Initiative		Aerobic co-
	mitigation practices	in Bangladesh: An		composting
	in the agricultural	Important Agenda of Soil Health		degradation of highly PCDD/F-
	highlands of Thua Thien Hue province	Soil Health Restoration		contaminated field
	I men mue province	1xcstol ation		soil. A study of
	Le Dinh Huy, Makoto	Uddin, M. J., Aurnab,		bacterial community
	Shibata, Nguyen Van	I. T.		
	Binh, Shinya			Huu-Tuan Tran,
	Funakawa			Chitsan Lin, Ngoc Son
				Hai Nguyen, Khoi-
				Nghia Nguyen,
				Hong-Giang Hoang

POSTER PRESENTATION SESSION

TUESDAY,	26 March 2024 (Convention Center, Thai Nguyen University)
8.00 - 8.30	Poster Session 1 (35 Posters)
	TNU Convention Centre – Main Hall
G4.1	(TNU Area Poster Place 1)
S1A	PS1A-1
	Evaluating the Potential of Rice-Based Spent Mushroom Substrate
	(SMS) Combined with Chicken Manure and Liquid Organic Plant
	Supplement as Soil Conditioner
	Rojales, J.S., Dimaano, V.T., Allag, D.R., Cortez, L.A., Arciaga, J.P.,
	Samar, E.D and Bautista, K.S.
	PS1A-2
	The development of a national soil health strategy and action plan
	for Vietnam
	Nguyen Dinh Cong, Nguyen Song Ha, Caon Lucrezia, Tran Minh Tien,
	Tran Minh Thu
	PS1A-3
	Chemical speciation and phyto-availability of legacy phosphorus in
	rice paddy soils in Taiwan
	Shibata, M., Johno, S., Watanabe, S., Nguyen, H.L.& Funakawa, S.
	PS1A-4
	Agricultural Soil Fertility Assessment Model and Grading
	Yoon, Jeong, Nam, Lee J.G., Kim, H.S., Kim, M.S. & Yang, J.E
	PS1A-5
	Assessing the potential for sustainable nitrogen utilization in clay-
	enhanced chicken manure
C4.D	Chen Ting-Yu and Lai, H.Y
S1B	PS1B-1
	Potential use of soil improvement microbial preparation for fruit trees
	Nguyen Thu Ha, Nguyen Viet Hiep, Dang Thuong Thao, Truong Thi Duyen
	PS1B-2 Research on methods to produce slow-release N, P, K fertilizers which
	was using silica-biochar materials from rice straw as a substrate
	Nguyen X. Huan, Tran T.M. Thu, Nguyen N. Minh, Tran M. Tien
	PS1B-3
	The effect of composted and pelleted quail manure on soil nitrogen
	mineralization
	Yeh, C.Y. & Lai, H.Y.
	PS1B-4
	The impact of chicken manure processing fertilizers made from
	chicken manure bedding material with various agricultural
	byproducts on soil properties and growth of pak choi
	Yang, M.Q., Hsu, Y.H. & Lai, H.Y.
	PS1B-5
	Effect of applying organic fertilizer made from chicken manure on
	soil fertility and the growth of Brassica chinensis L. cv. Wrinkled leaf
	Lee, Y.C. & Lai, H.Y

S1C	PS1C-1
SIC	Short-term impact of agricultural plastic mulches on soil labile
	carbon and available phosphorus in chilli (Capsicum annuum)
	carbon and available phosphorus in chili (Capsicum annuum) cultivation in Sri Lanka
	Dias, P.A.M., Gimhani, T.D.M., Chathurika, J.A.S., Ariyarathne, M.,
	Karunarathna, A., Perera, C., Jones, D.L. & Chadwick, D
	PS1C-2
	Effect of decomposer enriched City Waste Compost application on
	growth and Yield of broccoli
	Sabina Devkota and Parbati Adhikari
	PS1C-3
	Effects of continuous application of rice straw and cow-dung
	compost on soil fertility and rice yield in paddy fields
	Yuka Sasaki, Makoto Chuzenji, Nguyen Thanh Tung and Ken-ichi
	Kakuda
	PS1C-4
	Assessing Land Suitability for Major Crops and Proposing to
	Convert Cultivation Structure On Agricultural Production Land
	Area of Nhu Xuan District, Thanh Hoa Province
	,
	Nguyen Thi Hue, Ha Manh Thang, Mai Van Trinh
	PS1C-5
	Application of Data Mining Techniques and GIS to Assess Suitable
	Land for Mango Cultivation in Cho Moi District, An Giang Province
	Nguyen Huy Anh, Nguyen Trinh Minh Anh, Nguyen Phu Cuong
S1D	PS1D-1
	Applying machine leaning to produce Soil Organic Carbon Stock
	map of Vietnam
	Vu Manh Quyet, Nguyen Dan Tri, Tran Minh Tien
	PS1D-2
	Verifying the Semi-quantitative Soil Classification System of
	Vietnam Based on Soil Monoliths from the Vietnam Soil Museum
	Nguyen Thanh Tuan, Ho Quang Duc, Le Thai Bat, Le Anh Tuan & Tran
	Thuy Chi
	PS1D-3 Nowtheast Hilly Land Classification According to Fee Unesco Wyb
	Northeast Hilly Land Classification According to Fao-Unesco-Wrb Quantitative Method
	Nguyen Van Toan, Nguyen Vo Kien, Duong Thanh Nam, Vu Xuan
	Thanh, Nguyen Thi Ha, Vu Anh Tu, Vu Xuan Thanh, Nguyen Thi Ha,
	Duong Thanh Nam
	PS1D-4
	Effects of rice straw mulching on trophic structure and metabolic
	footprints of the nematode community belowground in an alternative
	upland-paddy rice system
	Sinh, N.V., Brooke, K., Jessica R., Hao, V.A., Thinh, N.Q., Chan, P.B.,
	Thy, C. T. A., Phuong N.T.K., Toyoda, K. & Nghia, N.K.
	PS1D-5
	Effects of cultivation activities on deep earthworm density in the
	citrus orchards
	Nguyen V. Hiep, Nguyen M. Hung
S1E	Nguyen V. Hiep, Nguyen M. Hung PS1E-1
S1E	
S1E	PS1E-1 Heat stress tolerance on Cucurbitaceae plant and biocontrol activity on plant parasitic nematode by endophytic fungus isolated from
S1E	PS1E-1 Heat stress tolerance on Cucurbitaceae plant and biocontrol activity

	PS1E-2
	Current situation and solutions to promote digital conversion of land
	indicators in organic agricultural production
	Luyen Huu Cu, Pham Minh Hanh, Le Thai Bat
	PS1E-3
	Apply electromagnetic induction method in precise agriculture
	Phan Thien Huon, Phan Thien Huong, Huu Tran, Duy Nguyen
	PS1E-4
	Prediction of Soil Organic Carbon by Vis-NIR spectrometry in the
	Soils from Taiwan
	Wu, P.H., Huang, Y.C., Wu, C.Y. & Hseu, Z.Y.
	PS1E-5
	Soil degradation status on different land use types in Can Tho
	province, Viet Nam
	Le Dang Long, Tran Van Hung, Pham Thanh Vu, Nguyen Van Hieu, Nguyen
	Trung Hieu, Pham Cam Dang, Pham Thi Thuy Kieu, Vo Quang Minh
S1F	PS1F-1
SII	Spatial analysis of land quality of agricultural land use types in Bac
	Lieu province
	_
	Nguyen Van Pho , Le Dang Long , Vo Quang Minh PS1F-2
	Spectroscopy and potential for soil study in the Mekong Delta, Viet
	Nam Hyymh Thi Thy Hyang Dham Cam Dang Nga Yyan Anh La Thanh
	Huynh Thi Thu Huong, Pham Cam Dang, Ngo Xuan Anh, Le Thanh
	Quyen, Nguyen Hong Phuc, Hua My Thuong, Vo Quang Minh PS1F-3
	Use of RothC model to predict the spatial and temporal changes in
	soil organic carbon sequestration potential in central Taiwan
	Chien-Hui Syu, Yen, C.C. & Yang, B.J. PS1F-4
	Effect of Rice Straw Compost Treatment Levels on Soil Organic Matter
	Content and Rice Yield in Long-Term Experiment Paddy Soil
	So Ye Han, Sangho Jeon, Jin-Ju Yun, Seong Heon Kim, Jay Hong Shim,
	Yun-Hae Lee, So ye Han, Soon ik Kwon, Byung Keun Hyun
	PS1F-5
	Greenhouse Gas Emission from Rice Cultivation in Different Soil
	and Ecological Conditions in Vietnam
	Mai Van Trinh, Bui Thi Phuong Loan, Vu Thi Hang, Dinh Quang Hieu
	and Vu Duong Quynh
S1G	PS1G-1
Sid	
	Impact of rice straw Incorporation and Indigenous Microorganisms
	(IMO) on soil carbohydrate and nitrogen mineralization in a long-
	term paddy soil
	Nguyen Thi Linh Phuong, Do Hong Hanh, Tran Thi Phu, Doan Chi
	Cuong, Vo Van Minh & Nguyen-Sy Toan
	PS1G-2
	Development of calibration curves of SOC stocks for different
	cropland types with BD expressed in a function of OC
	Juang Kai-Wei. Fu, C.M., Sie, Y.C., Tsai, T., Lin J.J., Hsu, Y.T.; Juang,
	K.W.
	PS1G-3
	Paddy field irrigation for soil total organic carbon and nitrogen form
	analysis
	· ·
	You-Cheng Chen; Shan-Li Wang

	PS1G-4
	Effects of flooding on land resources in coastal areas of Quang Ninh
	province under climate change conditions and proposed solutions for
	sustainable land use
	Viet NQ, Hung PA
	PS1G-5
	Effect of Complex Soil amendment on winter wheat (Triticum
	aestivum L. cv. "Baekkang") Growth In Reclaimed Tidal Land
	Sung Hyeon-Nam, Wi Young Lee, Yong Seon Jhang, Sang Phil Lee,
	Jung Hwan Yoon, Seok Soon Jeong, Jun Gyu Lee, Jae Young Jung, Sung
	Chul Kim,& Jae E. Yang
8.00 - 8.30	Coffe Break and Poster Session 2 (35 Posters)
	TNU Convention Centre – Main Hall
	(TNU Area Poster Place 2)
S2A	PS2A-1
~=12	Developing land fund for urbanization in the context of
	climate change in Ho Chi Minh City
	Truong Do Thuy Linh, Do Thi Tam, Vu Xuan Cuong, Xuan Thi Thu Thao
	PS2A-2
	No-tillage paddy rice can significantly reduce fuel consumption and
	working time but cause a decrease in rice yield
	Nguyen Thanh Tung, Luc, Q.C., Katahira, M.
	PS2A-3
	Assessment the difference in heavy metal contamination between
	Geoaccumulation Index and Contamination Index
	Jae Young Jeong, Sang Phil Lee, Seok Soon Jeong, Young Don Lee, Chan
	Gyu Lee, Byung Jun Park, Jun Gyu Lee, Jay E Yang, Hyuck Soo Kim
	PS2A-4
	Effects of raw gypsum and its combination with other amendments
	on the immobilization of As, Cd, and Pb in soil
	Chaw Su Lwin, Mina Lee, Namhee Yi, Taehee Beak, Kwon-Rae Kim
	PS2A-5
	Evaluation of Heavy Metal Stabilization in Contaminated Soil by
	Combined Application of Compost and Phosphogypsum
	Taehee Baek, Namhee Yi, Mina Lee, Chaw Su Lwin and Kwon-Rae
S2B	PS2B-1
	Molybdenum speciation in paddy soils and its uptake and
	accumulation by rice plants
	Yang, P.T., Wang, S,L
	PS2B-2
	Effect of combined treatment of red mud and gypsum for
	metal(loid)s immobilization in acidic and alkaline soils
	Mina Lee, Chaw Su Lwin, Namhee Yi, Taehee Baek & Kwon-Rae Kim
	PS2B-3
	Effects of CO2 and temperature on the release of arsenic from high
	arsenic biochar
	Nguyen Thi Quynh Anh, Hoang, T.T.T & Nguyen, M.N.
	PS2B-4
	Soil degradation status on different land use types in Can Tho
	province, Viet Nam
	Vo Quang Minh, Pham Thanh Vu, Tran Van Hung, Nguyen Van Hieu
	, Nguyen Trung Hieu, Pham Cam Dang, Pham Thi Thuy Kieu

	DC2D 5
	PS2B-5 Application of bischen derived from different agricultural wests to
	Application of biochar derived from different agricultural waste to
	improve soil quality in Thai Nguyen
	Duong Minh Ngoc, Nguyen Kieu Anh, Dang Van Minh, Nguyen Chi
S2C	Hieu, and Nguyen Duy Hai PS2C-1
S2C	Environmental quality of rice growing land in Bac Ninh province (Vietnam)
	Current status and some solutions for reasonable use and protection
	Pham Huong Giang, Nguyen Thanh Mai, Nguyen Phuong Lien
	PS2C-2
	Evaluation of heavy metals (As, Cd, Cu, Pb, Zn) accumulation in
	native plants growing on contaminated Thai Nguyen sites, Vietnam
	Hai N.N.S., Peter S. Jianhua D., Fangjie Q., Nong N.N, Nanthi B., Ravi N. PS2C-3
	Factors affecting the adsorption capacity of mg/al layered double
	hydroxides composite zeolite (mg/al ldh-zeolite) on heavy metals in
	contaminated soil in Vietnam
	Nguyen Thi Bich Hanh
	PS2C-4
	Screen for stable low-risk rice genotypes for As based on
	environment-genotype interaction, food quality standard, and health
	risk assessment
	Bo-Ching Chen, Juang, K.W., Tsai, T., Syu, C.H.
	PS2C-5
	Assessment Of Soil Pollution In Industrial Zones: Case Study At
	Industrial And Minerals Exploitation Area In Dak R'lap District,
	Dak Nong Province, Vietnam
	Nguyen Thuy Cuong, Nguyen Van Hiep, Nguyen Ba Lam, Nguyen
S2D	Xuan Vung PS2D-1
520	Biodegradation of nitenpyram insecticide by endophytic bacterium
	Bacillus thuringiensis strain NIT-2, isolated from neonicotinoid-
	treated plant
	Md. Tareq Bin Salam, Ryota Kataoka
	PS2D-2
	Predicting 137Cs and 90Sr activity concentrations in brown rice
	using specific activity ratios of 137Cs/Cs and 90Sr/Sr in the
	exchangeable fraction of soil
	Tsukada, H., Takeda, A, Yamaguchi, N, Saito, T. & Thoa, N.P.
	PS2D-3
	Study on the Possibility of Soil Improvement and Treatment of
	Heavy Metal Pollution of Elephant Grass Va06 Growing on Land of
	Lead Zinc Mine Waste Land Hich Village, Tan Long commune,
	Dong Hy district, Thai Nguyen province
	Hoang Anh Duc., Chu, V.H., Tran Do, H.N., Duong, N.Q.T., Nguyen,
	P.H., Hai N.N.S., Nong N.N
	PS2D-4
	Assess the current situation, changes and propose solutions for
	sustainable use of land resources in Ky Anh town, Ha Tinh province
	Hung PA, Viet NQ

	PS2D-5
	Application of Gis Technology to Build Land Database for Provincial
	Planning (An Experiment for The Planning Development of the
	Urban System in Thai Binh Province)
	Hong Hanh, N.T., Hong Yen, D., Anh Tuan, P., Hiep Nhu, D. & Le Dieu
	Linh, N.L.
S2E	PS2E-1
	Land policy as part of natural resources management strategy in
	Viet nam in the period of 2011-2020 and to ward 2030
	Nguyen Dinh Bong
	PS2E-2
	Geochemical fractionation of nickel and chromium in serpentine-
	derived paddy soils in the Philippines
	Navarrete, I.N.Dulfo, CP
	PS2E-3
	Application of Visible and Near-Infrared Diffuse Reflectance
	Spectroscopy for Estimating Soil Organic Carbon
	Trung Q. Lai, Eden Halpert, Minh N. Nguyen
	PS2E-4
	Development of a Model for Predicting Soil Properties in South
	Korea through Mid-Infrared Soil Spectroscopy
	Sangho Jeon, Jin-Ju Yun, Seong Heon Kim, Jay Hong Shim, Yun-
	Hae Lee, Soyeo Han, Soon ik Kwon, Byung Keun Hyun
	PS2E-5
	Paired Observations of Arsenic Speciation in Rice Grain, Leaf, and
	Paddy Soil Using High-Resolution X-ray Absorption Near Edge
	Spectroscopy
	Halpert, E.J., Ravel, B., Mot, V., Hoeng, S., Snyder, D., McGarry, T.J.,
	Cazacu-de Luca, A., Phan, K., Stahl, M., Sousa, D., Nicholas, S.&
	Bostick, B.C.
S2F	PS2F-1
	Effects of Chicken-Feather Hydrolysate on Soil Health
	Pi-Chen, Chin, Hsin-Yu, Ho, Shan-Li Wang
	PS2F-2
	Effects of in-season nitrogen application on soybean
	Gong Dong Hyeok; Donghyeok Gong, Sanghun Lee, Kiyoul Jung,
	HyenChung Chun
	PS2F-3
	Study on leaf nutrition diagnosis to determine deficiency and use
	appropriate fertilizer for Ha Giang Sanh orange variety
	Nguyen Duc Dung, Tran Minh Tien, La Tuan Anh, Nguyen Van Hien,
	Nguyen Minh Quang PS2F-4
	Change of soil map in Kon Plong district, Kon Tum province in the 2005 - 2023 period
	•
	Phan Hoang Vu., Pham Thanh Vu, Tran Van Hung, Vo Quang Minh, Vu
	Ngoc Hung
	PS2F-5
	Solution to enhace accumulation and concentration of agricultural
	land in Vietnam
	Tran Thai Yen, Phan Thi Thanh Huyen, Pham Anh Tuan Le Van Tho, Ngo Thi Ha, Nguyen Thi Hue

S2G	PS2G-1
	Monitor the rice growing season using remote sensing images
	Trang Kien Bush, Vo Quang Minh
	PS2G-2
	Study on leaf nutrition diagnosis to determine deficiency and use
	appropriate fertilizer for Ha Giang Sanh orange variety
	Nguyen Duc Dung, Tran Minh Tien, La Tuan Anh, Nguyen Van Hien,
	Nguyen Minh Quang
	PS2G-3
	Update soil maps of Tan Thanh district, Long An province, Viet Nam
	To Thanh Duong, Pham Thanh Vu, Phan Chi Nguyen, Vo Quang Minh
	PS2G-4
	Pedotransfer function for soil properties prediction: A case in Vinh
	Long province, Viet Nam
	Vo Quang Minh, Nguyen Huu Phuoc, Mai Nhut Au, Pham Cam Dang
	PS2G-5
	Evaluating the Potential of Rice-Based Spent Mushroom Substrate
	(SMS) Combined with Chicken Manure and Liquid Organic Plant
	Supplement as Soil Conditioner
	Rojales, J.S., Dimaano, V.T., Allag, D.R., Cortez, L.A., Arciaga, J.P.,
	Samar, E.D and Bautista, K.S.



IN-CONFERENCE EDUCATIONAL TRIP PROGRAMME

IN-CONFERENCE EDUCATIONAL TRIP IN ESAFS 2024 CONFERENCE

Chair: Prof. Dang Van Minh / Dr. Hoang Huu Chien

1. Time: 13:30-16:30, March 26, 2024 (Tuesday)

2. Location and sightseeing information:

Loaction: Hao Dat Tea Cooperative (Tan Cuong Commune, Thai Nguyen City, Vietnam)



Sightseeing information:

- Hao Dat Tea Cooperative is one of the most famous tea producers in Vietnam with 5-star OCOP-rated tea products and also an attractive destination for community tourism.
 - It is about 9 km from Thai Nguyen University (about 20 minutes of travelling by bus).
- Services provided include sightseeing, tea production experience, a food restaurant, and community accommodation.

3. Tour contents

Content 1. Investigating formation conditions and pedological characteristics of tea soil in Tan Cuong

- Introduction to soil formation and eco-system conditions
- Description of soil profiles and characteristics.

Instructors/presenters: Prof. Dang Van Minh and Dr. Hoang Huu Chien

Content 2. Visiting tea garden and investigating tea plantation in Tan Cuong

Instructors/presenters: Technical staff of Hao Dat Tea Cooperative

Content 3: Visiting the tea processing factory of Hao Dat Tea Cooperative

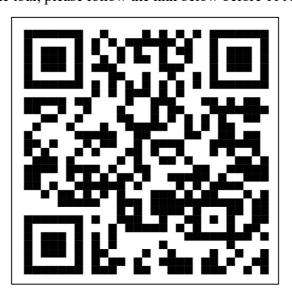
Instructors/presenters: Technical staff of Hao Dat Tea Cooperative

4. Schedule:

- 1:30 PM: Depart from Thai Nguyen University (by University bus).
- 1:50-3:30 PM: Upon arrival, divide into 3 groups to visit the 3 contents mentioned in section 3 (about 30 minutes/content/group).
 - 3:30-4:30 PM: Sightseeing, taking photos, and shopping at Hao Dat tea shop.
 - 4:30 PM: Move to Sen Ho Gardens and Restaurant (by bus) for Conference farewell party.

5. Registration

- All delegates are welcome to join the tour.
- To register for the tour, please follow the link below before 11 AM on March 26, 2024.



ESAFS 2024 In-Conference Educational Trip Registration

CONFERENCE POST-TOUR PROGRAMME

POST-TOUR CONFERENCE PROGRAM

- Field trip after the conference (Departing from Thai Nguyen city to Ha Long Bay, Ha Long city): Thursday - Friday, March 28-29, 2024: FIVE STARS CRUISE SCHEDULE (2 DAYS 1 NIGHT)

FIVE STARS CRUISE SCHEDULE (2 DAYS 1 NIGHT)

DAY 1: THAI NGUYEN - HALONG BAY - LAN HA BAY

- 7:00: Driver and tour guide pick up customer from May Plaza hotel Thai Nguyen city to Tuan Chau, Ha Long.
- 11:30: From the Tuan Chau Harbour, check in at F43 opposite the area 17 Tuan Chau Sleeping Pier.
- 12:30: Customers board the train and receive room at the receptionist desk on the cruise. When enjoy the welcome party, they will be listened sum up the safe rules and plan.
- 13:00: Enjoy a lunch in the restaurant. BLUE DIAMOND start to depart for the voyage to discover the Lan Ha Bay.
- **15:45:** Visit the Ba Trai Dao area and the natural lagoon of Lan Ha Bay this area includes the beach breaths a romantic atmosphere and three smaller islets like three giant peaches on the sea. You can join with our activities such as: kayaking, swimming, sightseeing and explore the Ba Trai Dao area.
 - (In unfavorable weather conditions, to ensure the safety of our guest, this destination would be change into Light cave- famous for the pristine natural beauty and poetic, attractive seascape of Lan Ha Bay. You can join with our activities such as: kayaking, sightseeing on the bamboo boat, ... This is the best time for you to enjoy bamboo boats or swimming which is an interesting activity to discover the truest beauty of the stunning limestone structure and the blue sky of Lan Ha Bay).
- 17:30 18:30: Come back to our BLUE DIAMOND and free play, see sunset, outdoor swimming and enjoy tea, fruit.
- 18:00: Join a cooking class that will be set up on the restaurant or sundeck.
- 19:30: Enjoy special seafood and typical Vietnamese food on the cruise. After dinner, customers can take part in some activities such as: Squid fishing, karaoke... Overnight on BLUE DIAMOND.

DAY 2: LAN HA BAY – TUAN CHAU – THAI NGUYEN

- **6:15:** Wake up early, join the Tai Chi session on sundeck area, enjoy the fresh atmosphere and watch the sunrise in Lan Ha Bay.
- 7:00 7:45: Have breakfast. Admit morning view of bay's landscape with a cup of tea or coffee.
- **08:15:** Visit the famous Tra Bau, it's time for freely kayak and explore the landscape, or swim... Come back the rest room and enjoy the holiday on Bay.
- **09:00:** Back to your cabin, relax and check carefully all the luggage before leaving your cabin.
- **09:30:** Check-out and enjoy a fantastic cruise on the bay for room service. Complete check out procedure and enjoy your brunch at BLUE DIAMOND.
- 10:30: Enjoy the brunch at restaurant.
- 11:30: Disembark at Tuan Chau harbor, we hope you have enjoyed your time with us and wish you a safe onward journey.
- 12:30: Customers come on the bus and back to Thai Nguyen.
- 16:00: Back to Thai Nguyen city and say goodbye to the delegation.

*Note:

- Because of cruising conditions, the program may be changed slightly due to specific weather or tide conditions without prior notice to visitors
- 5* cruise can change based on the number of register customers
- English tour guide.

TOUR PRICE: 5000,000 VND (220 USD)/ 1 PERSON

TOUR INCLUSION:

- Plan and One night aboard BLUE DIAMOND 5*
- Including bus through the holiday
- Meals follow the schedule
- Welcome drink
- Entrance fee, kayking fee, bamboo boat fee
- Free WIFI, Satellite HD LED Television in the cabin
- Free cafe, tea in room
- 1 bottle of water in the room and on the bus
- Outdoor Jacuzzi
- Free Viet A Travel soft hat.

TOUR EXCLUSION

- Visa
- Spa treatment services
- Tips for tour guide and driver
- Others drink and tobacco
- Other services and items not mentioned in the "INCLUSION"

IMPORTANT NOTES

Bring your identity documents (ID for domestic guests and Passport for foreign guests, for children under 11 years old must have a photo of their birth certificate for age verification) when boarding.

Note: Subjects maybe changed upon further notice

