

Conference Program

Venue: GIS NTU Convention Center, National Taiwan University

Sunday Nov. 03, 2019

Room	Plato Hall
15:00-19:00	Registration for foreign participants
17:30-19:00	Reception for foreign participants

Monday Nov. 04, 2019

Room	Forum Hall
08:00-09:00	Registration
Room	Forum Hall
Moderator	Zeng-Yei HSEU
09:00-09:20	Opening Ceremony Opening Remarks: Zeng-Yei HSEU, Chairman Welcome Address: Chia-Pei CHOU, Vice President, National Taiwan University Huu-Sheng LUR, Dean of College of Bioresources and Agriculture, National Taiwan University
Moderator	Dar-Yuan LEE
09:20-10:00	Keynote Speech 1: Biochar application modulates soil health and fertility: a meta-analysis Nanthi BOLAN
10:00-10:30	Morning Tea and Coffee
Moderator	Zueng-Sang CHEN
10:30-11:10	Keynote Speech 2: Development and prospect of a smart farming-based rice production system for sustainable agriculture in Taiwan Huu-Sheng LUR
Moderator	Yuan SHEN
11:10-11:50	Keynote Speech 3: Soil microbial ecology and organic matter application for sustainable agriculture Chiu-Chung YOUNG

Monday Nov. 04, 2019

11:50-13:00	Lunch			12:00-14:00 Council meeting (11th Floor, Just Sleep Hotel)
13:00-14:00	Poster Session----Plato Hall (Odd poster number only)			
Room	Socrates Hall	Locke Hall	Alexander Hall	Archimedes Hall
	Session 1: Soil education for pre- and elementary-school children: current issues towards setting an international standard	Session 2: Emerging contaminant elements in soil-plant systems (I)	Session 3: Soil information and digital soil mapping	Society Report
Moderators	Hideaki HIRAI Heng TSAI	Dar-Yuan LEE Tomoyuki MAKINO	Budiman MINASNY Kai-Wei JUANG	Zeng-Yei HSEU Shih-Hao JIEN
14:00-14:10	Demonstration functions, specific characteristics and high impression of soil museums of the world Zueng-Sang CHEN	Effects of emerging contaminant elements on aquatic food chains in irrigation-pond wetlands Rita YAM	Convolution neural network for mapping heavy metals in the topsoil of New South Wales, Australia Yuxin MA	Soil Science Society of Bangladesh S.M. Imamul HUQ
14:10-14:20	Soil education in the Philippines for pre-elementary and elementary school children Edna D. SAMAR	The effects of emerging contaminant elements on soil bacteria Nai-Chun LIN	Soil carbon and other nutrient conditions under different land use in Tamil Nadu, South India Soh SUGIHARA	Soil Science Society of China Renfang SHEN
14:20-14:30	Soil taxonomy of the municipality of Maasim in Sarangani Province, Mindanao, Philippines Adeflor GARCIA	Bioavailability of chromium (Cr) from tannery waste for caisim grewed on contrasted textural soil Eko HANUDIN	Sensitive soil layers at landslide prone areas of the transitional volcanic landscapes between quaternary and tertiary systems in Java - Indonesia Junun SARTOHADI	Indonesian Soil Science Society Budi MULYANTO
14:30-14:40	Making shiny soil balls is popular with children, but what kind of soil balls should we make to link to soil education? Haruo TANAKA	Nonexchangeable K threshold to screen radiocesium transfer risk to brown rice for paddy soils in Fukushima Kohei KUROKAWA	Spatial variation of soil chemical properties in paddy fields of Kurunegala District In Sri Lanka W. M. U. K. RATHNAYAKE	Japanese Society of Soil Science and Plant Nutrition Ryusuke HATANO

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14:40-14:50	Development and implement of an soil curriculum in the senior high school in Taiwan Wen-Shu HUANG	Effect of antibiotics on germination rate, root length and chlorophyll content of four different crops Hyeon-Ji CHOE	Soil characteristics in urban area under different land use : A case study of Fuchu in Tokyo, Japan Chiaki MURAKAMI	Korean Society of Soil Science and Fertilizer Jwakyung SUNG
14:50-15:00	General discussion	The distribution of gallium, indium and thallium in different type of arable soils in Taiwan Yu-Hsi LIU	Cadmium and lead concentrations in surface soils of tropical Ultisol: spatial variability in-relation to land use, soil associations and topography A. G. K. S. KODIKARA	Malaysian Society of Soil Science Rosazlin ABDULLAH
15:00-15:10		Vanadium extractability, speciation, and bioavailability in agricultural soils Cho-Yin WU	Digital soil mapping of soil fertility for Thai Jasmine Rice using remote sensing and terrain parameters employing machine learning in Thung Kula Rong-Hai region, Thailand Sasirin SRISOMKIEW	Nepalese Society of Soil Science Keshav R ADHIKARI
15:10-15:20		Efficient utilization mechanism of crop water and nutrients and regulation mode under alternate partial root-zone irrigation Fusheng LI	Digital soil mapping, assessment and contribution to digital agriculture Budiman MINASNY	Philippine Society of Soil Science and Technology Edna D. SAMAR

Afternoon Tea and Coffee				
15:20-15:50	Room	Socrates Hall	Locke Hall	Alexander Hall
		Session 4: Soil Fertility and plant nutrition (I)	Session 5: Soil Ecology	Session 6: Recent advances in paddy soil science: toward establishments of sustainable rice production, environmentally-friendly managements and food safety (I)
Moderators		Tetsuhiro WATANABE PI-HUI CHANG	Ryusuke HATANO Hung-Yu LAI	Zeng-Yei HSEU Shih-Hao JIEN
15:50-16:00		Relationship of soil color to soil fertility parameters of major soil series grown to sugarcane C. A. E. VALLEJERA-CORSIGA	Comparison of nutrient utilization strategies of traditional shifting agriculture under different climatic and soil conditions in Zambia, Thailand, Indonesia, and Cameroon Shinya FUNAKAWA	Phylogenetically distinct methanotrophs modulate methane oxidation in rice paddies and mangrove soils Chih-Yu CHIU
16:00-16:10		Silicon availability and its relation to other properties of soils in Taiwan Yin-Chung HUANG	From Effective Microorganisms (EM) Theory to examine soil microbial ecology Lo TSUI	Involvement of microaerophilic iron-oxidizing bacteria in the iron-oxidizing process at the surface oxidized layer of flooded paddy field soil Takeshi WATANABE
16:10-16:20		Enhancement in phosphorus uptake by rhizosphere effect in soil with combined application of chemical fertilizer and cattle manure compost Masahiko KATOH	Elemental and mineralogical diversity of serpentine soils in East Asia Atsushi NAKAO	Degree of saturation, availability and dynamics of phosphorus in paddy growing Alfisols of Sri Lanka and response of rice (<i>Oryza sativa</i> L.) plants to added P Fertilizers R.S. DHARMAKEERTHI
				Soil Science Society of Sri Lanka M.G.T.S. AMARASEKARA
				Chinese Society of Soil and Fertilizer Sciences (Taiwan) Shih-Hao JIEN
				Soil and Fertilizer Society of Thailand Pitayakon LIMTONG

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Moderators	Tetsuhiro WATANABE Pi-Hui CHANG	Ryusuke HATANO Hung-Yu LAI	Mizuhiko NISHIDA Yu-Min TZOU	Zeng-Yei HSEU Shih-Hao JIEN
16:20-16:30	Introduction of FFTC's proficiency testing program of soil and plant tissue analysis Yu-Wen LIN	Evaluating soil properties of serpentine soils between island arc and mainland area in Asia Chia-Yu YANG	Investigation of the effect of inter-tillage weeding on the distribution of nitrogen-fixing microorganisms in natural farming rice paddies Jin-Feng LIN	Vietnam Society of Soil Science Minh Tien TRAN
16:30-16:40	Effect of FertiGroe®N nanofertilizer on culturable bacterial population, microbial biomass, and enzyme activities in two soil types Carlito Jr Polo BASAY	Plant growth promoting endophytic bacteria confer growth promoting effect and different metabolite profiling in host plant Ryota KATAOKA	Role of biochar and manure combination on chemical properties of paddy soil polluted by mine tailing and the effect on rice (<i>Oryza sativa</i>) production Yulnafatmawita	General discussion
16:40-16:50	Effects of irrigation of livestock wastewater on soil quality and forage agronomic traits Hsin-Jung LEE	Cutting-edge arbuscular mycorrhizal fungal technology for sustainable agriculture Masanori SAITO	Effects of different iron amendments in paddy soil on arsenic accumulation in rice plants Han-Ting HSU	
16:50-17:00	Use of urine and excreta could improve vegetable production and soil fertility in Central Nepal Sharda KC	Isolation of endophytic fungi from forest soils in Indonesia Keitaro TAWARAYA	Effect of pelletized urea biochar composite on growth and N response of rice plant D.K.R.P.L. DISSANAYAKE	

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17:00-17:10	Determination of base saturation percentage in agricultural soils via portable X-ray fluorescence spectrometer Ashmita RAWAL	Characteristics of soil morphology of high mountain belt in Khuvsgul mountain region, Mongolia Saruul NARANGEREL	General discussion
18:00-21:00	Puppetry show and welcome banquet at La Marée Restaurant (Foreign participants & invited guests only)		

Tuesday Nov. 5, 2019

Forum Hall				
Registration				
Room				
08:00-08:30				
Room	Socrates Hall	Locke Hall	Alexander Hall	Archimedes Hall
	Session 7: Soil Fertility and plant nutrition (II)	Session 8: Recent advances in paddy soil science: toward establishments of sustainable rice production, environmentally-friendly managements and food safety (II)	Session 9: Soil management and climate change (I)	Session 10: Soil and water management
Moderators	Edna D. SAMAR Ya-hui CHUANG	Mizuhiko NISHIDA Shan-Li WANG	Shinya FUNAKAWA Chi-Ling CHEN	Ki-In KIM Yu-Ting LIU
08:30-08:40	Mobility characteristics of inorganic nutrients from soil fertilized with sewage sludge compost Riko SAMATA	Fertility re-evaluation of paddy soils after 50 years of the Green Revolution (FREPS 50) ~ A case study in the Philippines ~ Fukiko MASAI	Evaluation of practices for soil organic carbon sequestration to mitigate climate change in Taiwan Chi-Ling CHEN	Policy framework for soil and water conservation integrating soil erosion and ecosystem services Jae E. YANG
08:40-08:50	The effects of biochar, poultry manure and their mixture on soil properties, growth and yield of cocoyam grown on a severely degraded sandy soil of Southwestern Nigeria Michael-Taiwo AGBEDE	Effects of the Green Revolution on long-term changes of fertility status of paddy soils in tropical Asia Junta YANAI	The ultimate loss of soil: coastal and river bank erosion – the example of Camau Peninsula, Vietnam Stefan NORRA	Ammonium and nitrate contamination of shallow groundwater under vegetable fields in the downstream areas of the Huang River, Central Vietnam Morihiro MAEDA

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08:50-09:00	Microbial immobilization of ¹⁵ N labeled ammonium and nitrate following addition of polysaccharide with different quality Qian MA	The effects of N application methods on N recovery and grain yield of dry direct-seeded rice in north-east Japan Mari NAMIKAWA	Effect of continuous application of livestock manure compost on soil carbon accumulation and GHG emissions from a rice paddy field in a cool-temperate region, Japan Fumiaki TAKAKAI	Assessment of the nitrate-N leaching in the upland soils using the undisturbed monolith gravimetric lysimeter YeJin LEE
09:10-09:10	Effects of combined organic-inorganic fertilization to rice productivity and nitrogen use efficiency Edna D. SAMAR	Digital assessment of soil physical quality in the central region of Taiwan Chien-Hui SYU	Soil spectral library for cocoasoil of Papua New Guinea Kanika SINGH	Sorption and exchange of potassium on montmorillonitic soil clay mineral Zuldadan NASPENDRA
09:10-09:20	Role of plant growth promoting bacteria <i>Brevibacterium linens</i> RS16 in rice (<i>Oryza sativa</i> L.) cultivars to ameliorate salt stress by accumulation of proline and glycine betaine Jeongyun CHOI	Alleviating soil compaction under rice-upland crop rotations with deep tillage leads to increased nutrient availability and rice yield in a long-term experiment Tran Ba LINH	Gross nitrogen transformation rates during shifting cultivation cycle in Northern Thailand Makoto SHIBATA	Modelling organic carbon stocks in croplands of China: the past and the future Yongqiang YU

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09:20-09:30	Response of paddy (<i>Oryza sativa</i> L.) under spatially varying levels of soil phosphorus and potassium H. P. G. T. N. KULASINGHE	An evaluation of quantity-intensity relationship of potassium on some low land rice growing soils Kar SANJIB	Assessment of soil health using simple tools and its application Ching-Hua MA	Effects of drip fertigation on soil carbon sequestration and greenhouse gas emissions in sugarcane field Mengling NONG
09:30-09:40	Yield and N use efficiency of rice and peanut applied with different soil amendments in acid upland soil affected with periodic drought M.C.A. SALES	Impact of improving chemical properties of newly established acid sulphate soils for paddy growth Jelly-Amalia SANTRI	Distribution of soil organic carbon and its controlling factors in tropical volcanic regions Han LYU	Effect of rock fragment contents and sizes on saturated hydraulic conductivity in repacked soil columns Mina LEE
09:40-09:50	General discussion	Decomposition patterns of biochars derived from selected Satoyama biomass resources in soils Shin ABE	Early Impact Of cover crops on greenhouse gas emissions and soil microbial activities Artemio Jr MARTIN	General discussion
09:50-10:30	Morning Tea and Coffee			

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	Session 11: Soil management and climate change (II)	Session 12: Emerging contaminant elements in soil-plant systems (II)	Session 13: Soil Fertility and plant nutrition (III)	Session 14: Control, remediation and reclamation of soil degradation and soil contamination (I)
Moderators	Kye-Hoon KIM Chia-Hsing LEE	Hsi-Mei LAI Jin Hee PARK	Suphachai AMKHA Ian Auza NAVARRETE	Junta YANAI Stefan NORRA
10:30-10:40	Soil properties controlling accumulation of C from plant residue Tetsuhiro WATANABE	Assessing fate and toxicity of thallium in rice paddies and rice fish medaka Pei-Jen CHEN	Agricultural practices and soil properties controlling crop production in sandy soils under semiarid tropical climate Hitoshi SHINJO	Advanced countermeasures for cadmium and arsenic contamination in rice under recent international situation Tomoyuki MAKINO
10:40-10:50	Optimization of nitrogen fertilization to minimize yield-scaled nitrous oxide emission in maize cropping field Muhammad Ashraf ALAM	Accumulation and distribution of ECEs in domestic growth rice in Taiwan Hsi-Mei LAI	Alternative nutrient management for sugarcane plantation in the central region adopted from tailor-made fertilizer technology for sugarcane in the Northeast (SimCane), Thailand Napaporn PHANKAMOLSIL	Elution characteristics of various silica materials and their effect on the mitigation of arsenic and cadmium in rice plant Hiroshi TAKENAKA
10:50-11:00	Deposition and metal content of particulate matter on the surface of shrub and tree leaves Seon Ju KWON	Physiological and molecular characterizations of rice in response to gallium and indium Ya-Fen LIN	Production of compost by means of eradicating invasive water hyacinth (<i>Eichhornia crassipes</i>) S. R. AMARASINGHE	Evaluation of adsorptions of cadmium and chromium on the biochars pyrolyzed from different feedstocks Che-Yu CHIH
11:00-11:10	Interactive effects of mycorrhization, daytime and/or nighttime eCO ₂ on plant performance are host-species (N ₂ -fixing vs. non-N ₂ -fixing) or cropping pattern (mono-culture vs. intercropping) dependent Xinhua HE	Mitigation of manganese toxicity using various soil amendments in chromium contaminated soils Jin Hee PARK	Selection of appropriate methods to determine soil Mn availability for low-cadmium rice cultivar Rei SAITO	Chemical speciation and solubility of soil lead and arsenic by thermal treatments Kent SONODA

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11:10-11:20	Estimation of soil carbon stock change by liming in maize cropping upland soil Song Rae CHO	Effects of thallium on growth and ultrastructure of rice seedlings Chwan-Yang HONG	Sodium selenate application in soil on growth and yield quality in lettuce Suphachai AMKHA	Effect of conservation practices using various materials of mulching in Cameron Highlands Agrosystems, Malaysia Wan Yusoff Wan ABDULLAH
11:20-11:30	Changes in paprika internal electrical conductivity affected by manganese and chromium exposure Seung Ju CHA	General discussion	Use of nano-fertilizer to minimize nutrient losses from sandy regosols H.M.I.K. HERATH	Vertical migration of Fukushima Accident-derived radiocesium-137 in orchard soils under different land use and fertilizer management Kaori MATSUKA
11:30-11:40	General discussion		Soil testing kits as an alternative to laboratory soil testing for soil pH, exchangeable K and available P in Sri Lankan soils Dinaratne-Nihal SIRISENA	Radioactive cesium uptake ability of lupin Takuro SHINANO
11:40-11:50			Effects of calcium and magnesium treatments in acid soil on cadmium absorption by rice plant Bo-Jiun YANG	Blocking the diffusion of gasoline plume in groundwater using a permeable reactive barrier making up of waste distillery sludge Cheng-Chung LIU
11:50-13:00	Lunch			
13:00-14:00	Poster Session-----Plato Hall (Even poster number only)			

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	Session 15: Soil management and climate change (III)	Session 16: Control, remediation and reclamation of soil degradation and soil contamination (II)	Session 17: Soil Fertility and plant nutrition (IV)	Session 18: Forest soils
Moderators	Dang Van MINH Hsing-Cheng HSI	Junta YANAI Stefan NORRA	Minh Tien TRAN Chien-Hui SYU	Chih-Hsin CHENG Rosazlin ABDULLAH
14:00-14:10	Nitrous oxide emission with different type of animal manure and region in South Korea ChangOh HONG	Soil erosion accelerated by deer overgrazing or clear-cutting deteriorates phosphorus availability in forest ecosystems Nanami MURASHITA	Fractionation of phosphorus in soils with different soil types of sugarcane cropland in Okinawa, south Japan Eito NONOMURA	The aeolian additions of the Podzolic soils on the high-altitude mountains in central Taiwan Heng TSAI
14:10-14:20	Mitigation of global warming gas with bottom ash in radish-maize rotation field DoYoung HEO	Plant microbial fuel cells for soil remediation, waste valorization and fate of pollutants Chung-Yu GUAN	Saving irrigating water and fertilizer P to adapt with water scarcity and soil P enrichment in intensive rice production in the Mekong delta-Vietnam Khoi-Minh CHAU	Specific features in soil processes of the reclaimed soils in Japan Masayuki KAWAHIGASHI
14:20-14:30	Green manuring effect on net ecosystem carbon budget and global warming potential in maize field Hae Ri HAN	Anthropogenic disturbance on geopedogenetic processes at the Lower slope of Ungaran Volcano, Central Java - Indonesia Elok-Surya PRATIWI	Livestock holdings control the soil fertility of the homegardens in the Kilimanjaro highlands, Tanzania Yuri ICHINOSE	Roles of typhoon disturbances on seasonal and interannual patterns of litterfall for coniferous and broadleaf plantations in Xitou, Central Taiwan Chih-Hsin CHENG
14:30-14:40	Significant variations in arbuscular mycorrhizal fungal communities between subsoil and topsoil layers under 15-year long-term fertilizer amendments in an intensively managed arable purple soil Xinhua HE	Accumulation of chromium in cyanidiales Yen-Lin CHO	Inhibition of soil amidase activity by pyroligneous acid to control the release of soil nitrogen Joo Kyung LEE	Genesis and classification of various andic soils in the hills of central Miyagi Prefecture, northeastern Japan: evaluating the effect of volcanic ash using cryptotephra identification Sahoko ONUMA

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Moderators	Dang Van MINH Hsing-Cheng HSI	Junta YANAI Stefan NORRA	Minh Tien TRAN Chien-Hui SYU	Chih-Hsin CHENG Rosazlin ABDULLAH
14:40-14:50	Modeling sediment yield response to land use change using SWAT model in Hiso basin, Fukushima, Japan Shilei PENG	Arsenic sequestration by framboidal pyrite in naturally contaminated soils: chemical extraction, SEM and micro-XRF/XAFS investigation Yohey HASHIMOTO	Salinity effects on soil characteristics, nitrogen recovery and rice growth on two paddy soils in the Mekong Delta Duy-Minh DANG	The phosphorus accumulation and distribution in larch plantation ecosystem at different stand ages Xin CHEN
14:50-15:00	Land suitability for citrus on new sediment soils in Segara Anakan, Cilacap, Indonesia Makruf NURUDIN	Role of organic matter associated with temporal change of radiocesium forms in soil Hirofumi TSUKADA	Response of paddy rice to gypsum topdressing in soils with different level of available sulfur and soluble metals Ayano SUZUKI	Alteration of water soluble organic inorganic matters by converting of land use of tropical peat soil in Malaysia Kensuke MIZUKI
15:00-15:10	Global cropland NPP increase due to agricultural Green Revolution Pengfei HAN	General discussion	Unexpected effect of plastic film mulching: increase soil carbon stock in maize cropping land, due to higher net primary production than respired carbon loss Ho Gyeong CHAE	Soil fauna distribution on various land use type in super wet tropical rain forest West Sumatra Indonesia Herman HERMANSA
15:10-15:20	General discussion		An evaluation on the effects of humic acid and organic manures on the point of zero charge Sourav Kumar KHAN	Measures to reduce soil erosion on cassava farms in Central Highlands, Vietnam Trinh Cong TU
15:20-15:40	Afternoon Tea and Coffee			
Moderator	Zeng-Yei HSEU (Chairman)			Room
15:40-16:00	Closing ceremony			Socrates Hall

Posters

Odd poster numbers

Nov. 4, 2019 (Odd poster number only on Monday)

Plato Hall

Poster No.	Authors	Title
S1-P1	W.Y. Tseng, Y.S. Yen, Y.S. Liao, W.C. Chiu, C.J. Fong and Hung-Yu Lai	"SOIL EXHIBITION TOUR " — The soil education for general public and elementary school children in Taiwan
S2-P1	You-Ren Li, C. H. Syu and D. Y. Lee	Effects of Al on the uptake and accumulation of Ga and In in rice seedlings grown in Ga/In containing solution cultures
S2-P3	Wei-Lin Liu, P.T. Yang, H.W. Lin and S.L. Wang	Sorption of gallium and indium on humic acid-ferrihydrite
S2-P5	Goo Bok Jung, M. J. Chae, M. S. Kong, E. J. Lee, H. I. Jung and S. Y. Hong	Evaluation of chemical properties and heavy metals in upland soils in Korea
S2-P7	Ian Auza Navarrete and C.P Dulfo	Reactive iron controls the dynamics of Ni and Cr in serpentine paddy soils
S2-P9	B. H. Cheah, Y. T. Wang and Ya-Fen Lin	A distinctive effect of high Ga and In on rice physiology and molecular regulation
S2-P11	Y.H Chuang, Cheng-Hua Liu, Ray Hammerschmidt, Wei Zhang, Stephen A. Boyd and Hui Li	Influence of transpiration stream on lettuce uptake of antibiotics
S3-P1	Naoki Moritsuka, K. Matsuoka, S. Sano and J. Yanai	Laboratory and field measurement of magnetic susceptibility of agricultural surface soil for rapid soil assessment
S3-P3	Hiroaki Shimada, J. L. Boettinger, A. R. Jacobson, M. Asano and K. Tamura	Comparison of adjacent soils formed different parent materials, Cache Valley, Utah, USA
S3-P5	Chung Woo Kim, M. J. Yoon, J. Y. Yoo, M. J. Kim, Y. H. Kim and S. T. Hong	Chemical properties of representative soil in Chungbuk province
S3-P7	Porntip Phontusang and S. Sritumboon	Characteristics in spatial variability of soil organic matter under different land uses in northeast of Thailand
S4-P1	M. Akashi, S. Kaneko, K. Kamogari and Ryota Kataoka	Recycle barley bran into fertilizer and its influence on soil microorganisms
S4-P3	Meilania Nugraheni, Kiwamu Ishikura, Lulie Melling, Kitso Kusin and Ryusuke Hatano	Production of CO ₂ , CH ₄ and N ₂ O in differently disturbed tropical peat soils
S4-P5	Suci Febryani, Benito Heru Purwanto and Sri Nuryani Hidayah Utami	Phosphate (P) adsorption ability of clay fraction of several soil types in southern slope of Mount Ungaran, Semarang, Indonesia

Poster No.	Authors	Title
S4-P7	D.H. Wu and Pei- Rong Du	Study of genetic diversity and rice breeding mode for low-Cd accumulation
S4-P9	Hoang Huu Chien, R. Otomo, K. Okumura, K. Yamane, D.V. Minh, T. Shimamura, S. Tanaka and K. Iwasaki	Soil properties affecting the quality of special local tea produced in Thai Nguyen Province, Northern Vietnam
S4-P11	Yanling Wang, Xinghong Xu and Dan Yin	Retention and release of soil phosphorus from various aggregates in the red soil with long-term fertilization
S4-P13	Prapasiri Tongsir and H.Y. Lai	Assessment of soil properties suitable for tea cultivation in Taiwan
S4-P15	G. Z. Ling, X. X. Wang, S. Yang, M. M Chang, X. L. Tang and Xiao-Feng Li	Seasonal alleviation of Mn-induced chlorosis in sugarcane seedlings facilitated by ammonium and rainfall
S4-P17	Natthawipa Onlamai, S. Sritumboon and P. Phontusang	Variation of soil potassium in different land uses in Northeast of Thailand
S4-P19	Jinsen Zheng and S. Funakawa	Optimizing nitrogen management to balance food and environmental objectives in two maize systems of the Tanzanian highlands
S4-P21	H. Tasi and Hao-Yun Yang	The study of sauerkraut manufacture affecting soil salinity in Dapi Township
S4-P23	Hsiu-Yen Chang, Tzu-Shan Su, Yin-Ren Lai, Shudi Pan and Shan-Li Wang	Speciation of phosphorus in acidic paddy soil as affected by rice-straw biochars
S4-P25	Sheng Zhou, Huifeng Sun, Jining Zhang, Xianxian Zhang and Cong Wang	Rice yield, nitrogen use efficiency and greenhouse gases emission in response to controlled-release fertilizer combined with wheat straw incorporation in a paddy field
S4-P27	Pornthiwa Kanyawongha, N. Phanchindawan and A. Sriprachote	Soil fertility status and leaf nutrient concentrations of robusta coffee in the multi-cropping system with para rubber
S4-P29	Sharmin-Akter Chowdhury, S. K. Paul, K. Suzuki and N. Harada	Growth and yield performance of aromatic rice varieties in response to different nitrogen fertilization treatments
S4-P31	Eun-jin Lee, Yoo-hak Kim, Myung-suk Kong, Tae-Gu Lee, Ha-il Jung, Goo-bok Jung, Seong-Soo Kang and Yihyun Kim	Introduction of on-site diagnosis & prescription built by linking soil testing with on-site diagnosis and its application
S4-P33	Hyeon-suk Cho, M. C. Seo, W. G. Sang, P. Shin and J. K. Baek	Effect on rice yield and content of soil carbon according to the difference types of organic matter in paddy soil
S4-P35	HuiSu Bae, H. S. Jang, U. H. Kim, S. H. Ahn and J. T. Youn	Effect of nitrogen fertilizer on seed yield and growth response for Italian ryegrass in the saemangeum reclaimed tidal land
S4-P37	Indika Kaumudini Herath, and D. M. D. I. Wijebandara	King coconut husk: A source of potassium for coconut plantations

Poster No.	Authors	Title
S4-P39	Shinsuke Mori, H. Fujimoto and G. Ishioka	Application of an enriched stable isotope tracer to wet-direct seeded rice cultivation: plant incorporation of seed coating-derived molybdenum
S4-P41	Zih-An Lin, Liang-Ching Hsu, Chao-Yu Pan, Yu-Min Tzou and Yu-Ting Liu	Transformation of phosphorus species in sediments under aerobic and anaerobic environment with various water salinity
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