

International Online Symposium on Soil C and N Dynamics by Land Use, Management and Climate Changes

Main Topics:

- ✓ Carbon sequestration?
- ✓ Greenhouse gases emission?
- ✓ Plants production?
- ✓ Soil fertility?
- ✓ Effect of Climate Changes?
- ✓ Soil mineral and organic components?

Date :

September 28 - 29, 2020

Venue:

Zoom Cloud Meeting for most participants,
and Yamagata University for participants who can
attend in Tsuruoka, Japan

Organizer & Contact:

Prof. Weiguo CHENG (Yamagata University, Japan)

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Sponsor:



Yamagata University



UGAS, Iwate University

Program (1)

OM: Opening message; KN: Keynote; OC: Oral Communication; P: Poster Presentation

Monday, 2020/9/28			
Time in Japan	Session / Presentation	Presenter, Affiliation	Time in Presenter country
8:00	Start registration online		
Opening Ceremony			
OM 1 9:00-9:10	Opening welcome message from Dean of United Graduate School of Agricultural Sciences, Iwate University	Prof. UEMURA Matsuo, Iwate University	Japan 9:00-9:10
OM 2 9:10-9:20	Opening welcome message from Dean of Faculty of Agriculture, Yamagata University	Prof. MURAYAMA Hideki, Yamagata University	Japan 9:10-9:20
OM 3 9:20-9:30	Opening welcome message and introduction of the IOS from Organizer	Prof. CHENG Weiguo, Yamagata University	Japan 9:20-9:30
Session 1: Natural and Artificial Wetlands			
KN 1 9:30-10:00	Effects of mire disturbance by Sika deer on physico-chemical properties of peat soils and greenhouse gas flux in Ozegahara Mire, Japan	Prof. INUBUSHI Kazuyuki, Chiba University	Japan 9:30-10:00
KN 2 10:00-10:30	Soil and vegetation characteristics along hydrologic gradient in marl- and peat- dominated wetlands in Everglades, Florida	Prof. Jay P. Sah, Florida International University	USA (last day) 21:00-21:30
10:30-10:40	Coffee/Tea Break		
KN 3 10:40-11:10	Peatland restoration at Kayu Tangi Conserved Area: A pilot project	Prof. Abdul Hadi, Lambung Mangkurat University	Indonesia 8:40-9:10
OC 1 11:10-11:30	Extractable carbohydrate as affected by long term conversion from forest to rice paddy	Dr. Nguyen-Sy Toan, The University of Danang	Vietnam 9:10-9:30
OC 2 11:30-11:50	The warming winter accelerated methane emissions during subsequent rice growing season from paddy fields	Pre-Dr. WU Xian, Huazhong Agricultural University	China 10:30-10:50
OC 3 11:50-12:10	CH ₄ emission from paddy field with dry direct seeding	Dr. NAKAJIMA Miyuki, NARO-Tohoku	Japan 11:50-12:10
OC 4 12:10-12:30	Dry direct seeding as an adaptive technology in drought-prone rainfed in the Philippines	Dr. Crisanta S. Bueno, University of the Philippines Los Baños	Philippines 11:10-11:30
12:30-13:30	Lunch Break in Japan		

Program (2)

OM: Opening message; KN: Keynote; OC: Oral Communication; P: Poster Presentation

Monday, 2020/9/28			
Time in Japan	Session / Presentation	Presenter/ Affiliation	Time in Presenter country
Session 2: Agricultural Lands and Climate Change			
KN 4 13:30-14:00	Investigating the mitigation mechanisms of methane emissions from paddy field by biochar application	Prof. Amnat Chidthaisong, King Mongkut's University of Technology Thonburi	Thailand 11:30-12:00
KN 5 14:00-14:30	Rice straw cover effects on soil erosion and carbon, nitrogen, and phosphorus loss from maize fields	Prof. Woo-Jung Choi, Chonnam National University	Korea 14:00-14:30
OC 5 14:30-14:50	Effects of raised water level on greenhouse gas fluxes in boreal croplands on peat soil	Dr. Sanna Saarnio, Natural Resources Institute Finland	Finland 8:30-8:50
OC 6 14:50-15:10	Effects of field management on soil organic carbon in upland fields in Thailand	Dr. WATANABE Takeshi, JIRCAS	Japan 14:50-15:10
OC 7 15:10-15:30	VNIR hyperspectral imaging of soil organic matter in agricultural soils	Dr. Julien Guigue, Technical University of Munich	Germany 8:10-8:30
15:30-15:40 <i>Coffee/Tea Break</i>			
OC 8 15:40-16:00	Effects of different land-use patterns on soil microbial biomass carbon, nitrogen contents and enzyme activities in rocky mountains of Northern China	Dr. KONG Yuhua, Henan Agricultural University	China 14:40-15:00
OC 9 16:00-16:20	Study of soil chemical properties and nitrogen dynamics in paddy fields with different cropping patterns in Central Java Indonesia	Pre-Dr. Patria N. Kusumawardani, Universitas Gadjah Mada	Indonesia 14:00-14:20
OC 10 16:20-16:40	Co-elevated CO ₂ and temperature affect biomass, chemical composition, and decomposability of rice residues	Dr. Hyun-Jin Park, Chonnam National University	Korea 16:20-16:40
OC 11 16:40-17:00	Effects of prior upland cropping on nitrous oxide emission from rice-growing seasons – comparing rice-rapeseed and rice-wheat rotations	Pre-Dr. XU Peng, Huazhong Agricultural University	China 15:40-16:00
OC 12 17:00-17:20	Utilization of Azolla in rice cultivation for environmental conservation and adaptation to climate change	Pre-Dr. Samuel M. Kimani, UGAS-Iwate University	Japan 17:00-17:20
OC 13 17:20-17:40	Soil carbon stocks and nutrient dynamics under cocoa plantations of different ages	Dr. Alfred Arthur, Cocoa Research Institute of Ghana	Ghana 8:20-8:40
Online Party (18:00-19:00)			

Pre-Dr: who will receive Ph.D degree soon.

Program (3)

OM: Opening message; KN: Keynote; OC: Oral Communication; P: Poster Presentation

Tuesday, 2020/9/29			
Time in Japan	Session / Presentation	Presenter/ Affiliation	Time in Presenter country
8:00	Start registration online		
Session 3: Forests and Treelands			
KN 6 9:00-9:30	Effect of changes in throughfall on soil GHG fluxes under a mature temperate forest, northeastern China: measurement and meta-analysis	Prof. XU Xingkai, Chinese Academy of Sciences	China 8:00-8:30
KN 7 9:30-10:00	Nitrogen saturation in forest ecosystems in central Japan, recovery or progress?	Prof. SASE Hiroyuki, Asia Center for Air Pollution Research	Japan 9:30-10:00
OC 14 10:00-10:20	Soil quality under integrated crop-livestock system – a case study in Middle-West Brazil	Dr. Silvio Y. Ushiwata, Universidade do Estado de Mato Grosso	Brazil (last day) 22:00-22:20
OC 15 10:20-10:40	Soil carbon, nitrogen and phosphorus changes of oil palm fields with different planting age	Dr. TAN Ngai Paing, Universiti Putra Malaysia	Malaysia 9:20-9:40
10:40-10:50	Coffee/Tea Break		
OC 16 10:50-11:10	Effects of different fertilizer applications on SOC mineralization and composition in rubber plantation, Hainan, China	Dr. TANG Shuirong, Hainan University	China 9:50-10:10
OC 17 11:10-11:30	Spatial variability of soil properties reflecting field management practices in a matured oil palm ecosystem	Dr. Wong Mum Keng, The Genting Plantation	Malaysia 10:10-10:30
OC 18 11:30-11:50	Nitrogen fertilizer reducing and green manure planting modulate runoff nitrogen and phosphorus loss in citrus orchard	Pre-Dr. LUO Yue, Huazhong Agricultural University	China 10:30-10:50
OC 19 11:50-12:10	Soil carbon dynamics in the apple orchard under the changing climate	Prof. ITO Daiyu, Hirosaki University	Japan 11:50-12:10
12:10-13:30	Lunch Break in Japan		

Session 4: Poster Presentations (13:30-17:00)	
13:30-14:30	P1~P16
14:30-15:30	P18~P32
15:30-16:30	Free chat
16:30-17:00	Farewell Massage

Poster presentations (1)

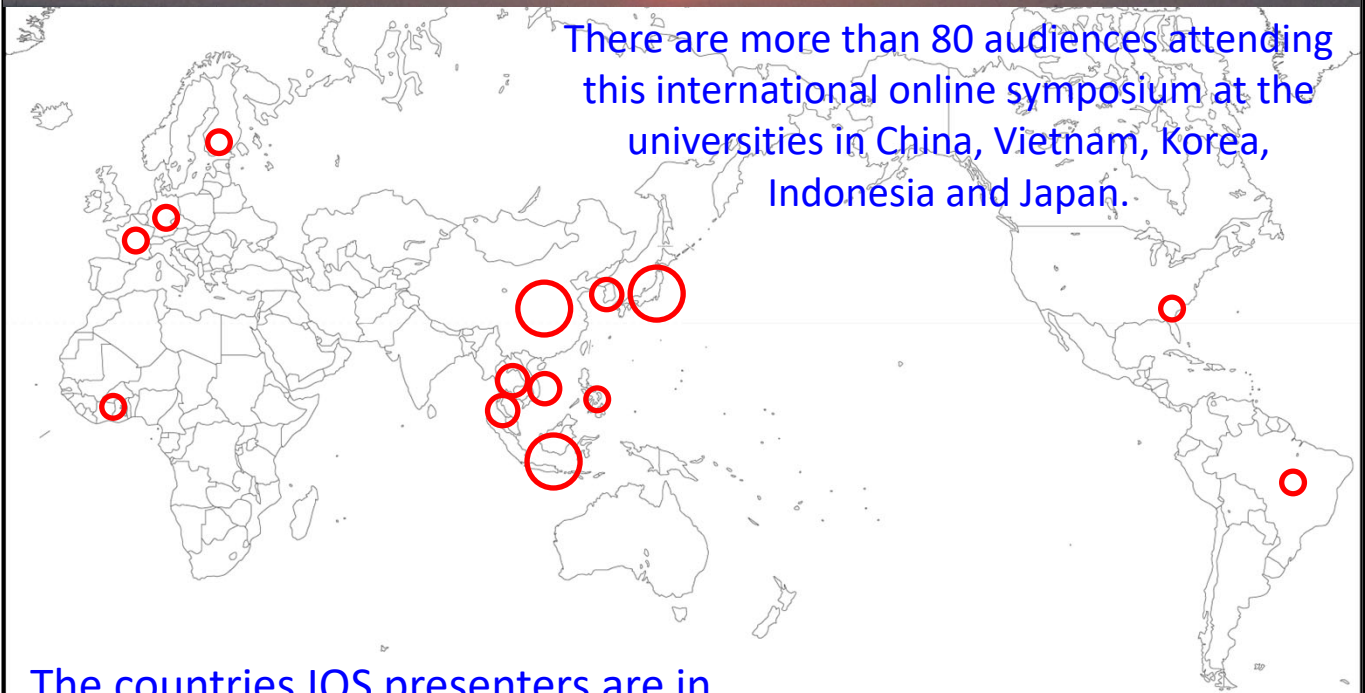
No.	Presenter	Affiliation	Country in	Title
P1	Dr. FURUKAWA Yuichiro	Niigata Prefecture	Japan	Fertilization management for organic ricecultivation in weed coexistenceenvironment
P2	Dr. YASHIMA M. Miwa	Chiba University	Japan	A soil C and N recovery trial using green manures in a decontamination site of Fukushima area
P3	SATO Makiba	Chiba University	Japan	Effect of pellet compost on CO ₂ and N ₂ O production and plant growth in Andosols and Chernozem
P4	TAIRA Hidetoshi	Chiba University	Japan	Cyanobacteria as candidates for remediation of degraded soils
P5	Dr. PARK Hyun-Jin	Chonnam National University	Korea	Soil salinity effects on soil carbon content and rice yield in reclaimed coastal tideland paddies with different cultivation years
P6	SEO Bo-Seong	Chonnam National University	Korea	Estimation of electrical conductivity of saturated soil paste from 1:1, 1:2, 1:5 soil-water extracts in soils with different texture
P7	Dr. WU Haohao	Chinese Academy of Sciences (Beijing)	China	Responses of soil DOM quantity and quality to freeze–thaw and litter manipulation with contrasting soil water content: a laboratory
P8	Dr. WU Haohao	Chinese Academy of Sciences (Nanjing)	China	The role played by vegetation water use strategies in the response of gross primary productivity to drought across China: integration of flux tower, satellite data, and process-based model
P9	GONG Shanshan	Henan Agricultural University	China	Seasonal dynamics of soil active carbon and nitrogen under 5 different ages of <i>Platycladus orientalis</i> artificial forest in rocky mountains of
P10	HU Jinli	Huazhong Agrcultural University	China	The effect of zero-valent iron addition on the process of returning straw to paddy fields
P11	JIANG Mengdie	Huazhong Agrcultural University	China	Prior nitrogen fertilization regulates CH ₄ emissions from rice cultivation by increasing soil carbon storage in a rapeseed-rice rotation
P12	NA Liping	Huazhong Agrcultural University	China	Evaluating the impact of earthworm on urea- ¹⁵ N utilization and potential environmental pollution
P13	SU Ronglin	Huazhong Agrcultural University	China	Organic matter mineralization in different horizons of paddy soil responses to temperature change
P14	XIAO Hengbin	Huazhong Agrcultural University	China	Land use and fertilization impacts on nitrogen in water body
P15	SUN Zheng	UPMC University Paris 06	France	Interests of Rock-Eval® thermal analysis on soil organic matter
P16	XU Wenxian	Hainan University	China	Improvement of soil properties and enzyme activities of young rubber plantation in Hainan through kudzu mulching

Poster presentations (2)

No.	Presenter	Affiliation	Country in	Title
P17	Li Jinqiu	Hainan University	China	Effects of water and fertilization management on CH ₄ and N ₂ O emissions in double -rice paddy fields in tropical regions, China
P18	Udkham Phansa	Chiang Mai University	Thailand	Remediation of Chlorpyrifos Contaminated Soil Using Biochar
P19	Le Duc Tam	National Institute of Medicinal	Vietnam	Effects of nitrogen levels on growth and yield of <i>Lactuca indica</i> L. in Hanoi, Vietnam
P20	Tran Khanh Bao	The University of Danang	Vietnam	Effects of burning rice straw on bulk soil properties and water extractable carbohydrate of a rice paddy
P21	Dr. Helena Lina Susilawati	Indonesian Agricultural Environment Res. Ins	Indonesia	Estimation of CO ₂ emission as affected by oil palm plantation on tropical peatland
P22	Ramdhana Karimah	Universitas Gadjah Mada	Indonesia	Effect of soluble organic nutrient extracted from goat dung on microbial respiration, nutrient content and growth of water spinach (<i>Ipomea reptans</i>)
P23	Meilania Nugraheni	Sinar Mas Forestry, Hokkaido University	Indonesia	Effect of disturbances on greenhouse gas emissions of Indonesian and Malaysian peat soils
P24	Wibowo Wisnu Aji	Univ. Gadjah Mada, Yamagata University	Indonesia	Effect of long-term application of high dose manure on soil carbon, nitrogen and rice growth in Tsuruoka, Japan
P25	Asih Indah Utami	Univ. Gadjah Mada, Yamagata University	Indonesia	Soil C and N contents affected by soil mixing: comparison of organic and conventional rice farming
P26	Riza Kurnia Sabri	Univ. Gadjah Mada, Yamagata University	Indonesia	Soil carbon decomposition, nitrogen mineralization, and rice yield in Andosol organic farming paddies after the lands reconstructed in Tochigi, Japan
P27	Margi Asih Maimunah	Univ. Gadjah Mada, Yamagata University	Indonesia	Effect of weeding frequencies on soil nitrogen and crop yield in organic rice farming
P28	Putu Oki Bimantara	Yamagata University	Indonesia	Changes in soil properties as affected by slash and burn agriculture in a Japanese Satoyama, Shonai, Yamagata
P29	SHIONO Hiroyuki	Yamagata Prefecture	Japan	Methods of reducing methane emission from paddy fields with rice straw incorporated in a cold region of Japan
P30	Sarah Kentsch	UGAS, Iwate University	Japan	Using image analysis and deep learning techniques to detect invasive species in forests and wetlands
P31	Md. Rakibul Hassan	UGAS, Iwate University	Japan	Interactive effect of long-term elevated CO ₂ and temperature on the apple (<i>Malus domestica</i>) tree and its mitigation technique
P32	Valensi Kautsar	UGAS, Iwate University	Japan	Continued and discontinued excessive compost manure application on dissolved CO ₂ , CH ₄ and rice yield: two years pot experiment

WE ARE ON ONE EARTH

There are more than 80 audiences attending this international online symposium at the universities in China, Vietnam, Korea, Indonesia and Japan.



The countries IOS presenters are in

○ : 1; ○ : 2~4 ○ : 10~16

INARI-sama (Rice God) in Shonai
bless COVID-19 pandemic to
end soon in the world!
Welcome to Yamagata next time!

