

PAWEES 2013

**The 12th Conference of International Society of
Paddy and Water Environment Engineering**

“Agricultural water and rural environment for the future”

**30 October – 1 November 2013
Ramada Plaza Hotel, Cheongju, South Korea**



Organized by

**International Society of Paddy and Water Environment Engineering (PAWEES)
Korean Society of Agricultural Engineers (KSAE)
Chungbuk National University (CBNU)
Ministry of Agriculture, Food and Rural Affairs (MAFRA)
Korea Rural Community Corporation (KRC)**

Supported by

**Ministry of Agriculture, Food and Rural Affairs (MAFRA)
Korea Rural Community Corporation (KRC)
Korean Federation of Science and Technology Societies(KOFST)
Korea Federation of Water Science and Engineering Societies(KFWSES)**

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Welcome address

Dear Colleagues:

It is my great honor to deliver the opening address in 2013 joint PAWEES and KSAE meeting. I would like to extend the warmest greetings to all participants from Japan, Taiwan, Indonesia, Korea, and other countries.

It is my pleasure to welcome you to Cheongju, a capital city of Chungbuk Province. I would like to express my deepest gratitude to the president of PAWEES Mr. Wei-Fuu Yang, president of JSIDRE, Dr. Sho Shiozawa, and a keynote speaker, Dr. Masaru Mizoguchi.

We will discuss the theme of "agricultural water and rural environment for the future" in PAWEES 2013. It is 11 years since we inaugurated the PAWEES in Kyoto in 2003. The PAWEES has achieved remarkable progress during past 10 years. The unique water environment and multi-functionality of paddy farming in Asian monsoon area were globally recognized due to activities of PAWEES. The Paddy and Water Environment (PWE), an official journal of PAWEES, was first published in 2003, registered as a SCIE journal in 2009, and achieved higher impact factor of 1.025 in 2012. From now on, we must continue our best efforts to promote uniqueness of water and ecosystems in paddy fields, and advance the quality of PWE.

Finally, I would like to extend special thanks to the Korean Ministry of Agriculture, Food and Rural Affairs (MAFRA) and Korean Rural Community Cooperation (KRC) for providing financial support. I would like to express my best wishes for a great success of 2013 PAWEES and KSAE joint meeting. Please enjoy your stay in Cheongju. Thank you very much.

President of the Korean Society of Agricultural Engineers (KSAE)



Dr. JIN SOO KIM
Professor, Chungbuk National University



Organizing Committee

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President of KSAE, Chungbuk National University (Korea)

Co-Chairperson

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CEO of Korea Rural Community Corporation (Korea)

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Seoul National University (Korea)

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Seoul National University (Korea)

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Chungbuk National University (Korea)

Dr. Jae Kyoung Noh

Chungnam National University (Korea)

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Dr. Jin Kyu Choi	Chonnam National University (Korea)
Dr. Sang Min Kim	Gyeongsang National University (Korea)
Dr. Seong Gu Hong	Hankyong National University (Korea)
Dr. Jae Gwon Son	Chonbuk National University (Korea)
Dr. Kwang Sik Yoon	Chonnam National University (Korea)
Dr. Ji Hong Jeon	Andong National University (Korea)
Dr. Dong Seok Shin	National Institute of Environmental Research (Korea)
Dr. Hyeon Jun Kim	Korea Institute of Construction Research (Korea)
Dr. Dae Sik Kim	Chungnam National University (Korea)
Dr. Ki Sung Kim	Kangwon National University (Korea)
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Dr. Young Hwan Son	Seoul National University (Korea)
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Dr. Min Won Jang	Gyeongsang National University (Korea)

3. Local Organizing Committee

Chungbuk National University

Chairperson

Dr. Seung Jin Maeng	Chungbuk National University (Korea)
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Co-Chairperson

Dr. Jin Yong Choi	Seoul National University (Korea)
Dr. Kyung Sook Choi	Kyungpook National University (Korea)

Member

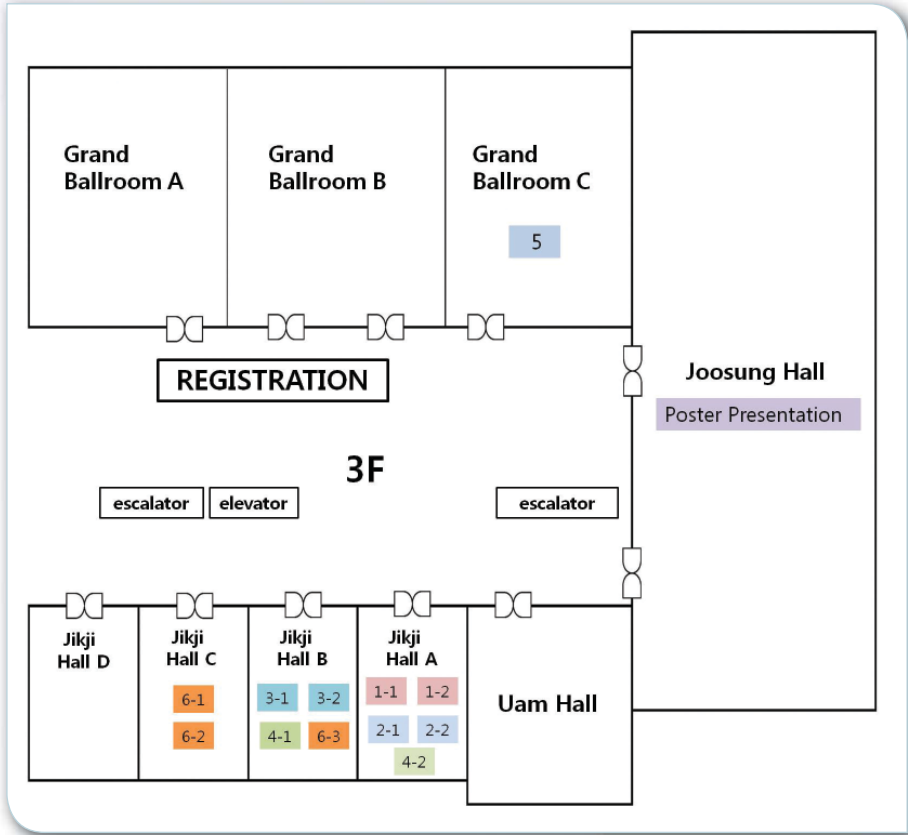
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Mr. Sihong Li	Chungbuk National University (Korea)
Mr. Jae Yong Lee	Chungbuk National University (Korea)
Mr. Ji Hoon Shim	Chungbuk National University (Korea)

Secretary

Miss. Ji Hye Jeong	Chungbuk National University (Korea)
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Layout





Conference Program

30(Wed) October

Time	Jikji Hall (A)	Jikji Hall (B)	Jikji Hall (C)	Joosung Hall
08:30-09:00	Registration			
09:00-10:40	Session 1-1 (Theme 1) (4 presentations) Dr. Jae Kyoung Noh	Session 3-1 (Theme 3) (4 presentations) Dr. Noriyuki Koizumi Dr. Song Bae Kim	Session 6-1 (Student Session I) (6 presentations) Dr. H. Ikeura Dr. Seung Jin Maeng	Poster Sticking 08:30-09:10 Presentation 17:20-18:20 (25 posters) Dr. Hwa-Lung Yu Dr. Ke-Sheng Cheng Dr. Seong-Joon Kim
10:40-11:00	Coffee Break			
11:00-12:20	Session 1-2 (Theme 1) (3 presentations) Dr. Moon Seong Kang Dr. Kyung Sook Choi	Session 3-2 (Theme 3) (4 presentations) Dr. Seongjik Park Dr. Taeil Jang	Session 6-2 (Student Session II) (5 presentations) Mr. J. Onishi Dr. JinYong Choi	
12:20-13:20	Lunch (Jusung Hall)			
13:30-13:50	Opening Ceremony(Joint with KSAE) (Grand Ballroom A, B)			
13:50-14:10	Keynote Speech(Joint with KSAE) (Grand Ballroom A, B)			
14:10-14:30	Coffee Break			
14:30-16:10	Session 2-1 (Theme 2) (4 presentations) Dr. Fi-John Chang	Session 4-1 (Theme 4) (4 presentations) Dr. Ming-Che Hu Dr. T. Kato		
16:10-16:30	Coffee Break			
16:30-18:10	Session 2-2 (Theme 2) (3 presentations) Dr. Gene J.-Y. You Dr. H. Tanji			
18:30-20:30	Banquet and Autumn classic concert(Joint with KSAE) (Grand Ballroom A, B)			



Conference Program

31(Thu) October

Time	Grand Ballroom (C)	Jikji Hall (A)	Jikji Hall (B)
08:30-09:00	Registration		
09:00-11:00	Session 5 (Theme 5) (6 presentations) Dr. Ray-Shyan Wu Dr. K. Noborio	Session 4-2 (Theme 4) (4 presentations) Dr. Tsang-Jung Chang Dr. In Hong Song	Session 6-3 (Student Session III) (7 presentations) Dr. Kyoung Jae Lim Dr. Min Won Jang
11:00-11:10	Break		
11:10-12:30	Award Ceremony (Grand Ballroom C)		
12:30-13:00	Agenda I Meeting - PWE Publication (Grand Ballroom C)		
13:00-14:00	Lunch		
14:00-15:00	Agenda II and III Meeting - Management of PAWEES, International cooperation opportunities among member countries (Grand Ballroom C)		
15:00-15:30	Coffee Break		
15:30-15:50	Cheongju Statement & Closing Remarks		
16:10-17:40	Executive Meeting (Closed) / Old Printing Museum Tour		
18:00-20:00	Dinner		

* For each presentation
General; 20mins, Students; 15mins (Including Q&A)

1(Fri), November

Time	Program
09:00-16:00	Technical Tour Four-river Restoration Project Sites



Keynote Speech

30(Wed), October 13:50-14:10

Grand Ballroom(A, B)

Keynote Speech	
Chair: Sang Min Kim (Gyeongsang National University)	
13:50-14:10	Development of decontamination method farmers can do by themselves in paddy contaminated by radiocaesium in Fukushima Prof. Masaru Mizoguchi (University of Tokyo)

Sessions_Oral Presentation

30(Wed), October 09:00-10:20

Jikji Hall (A)

Session 1-1 : Climate Change and Water Resources	
Chair: Jae Kyong Noh (Chungnam National University)	
09:00-09:20 A-01	Impact of Climate Change on Intelligent Reservoir Decision-Making System Fi-John Chang(National Taiwan University), Yu-Chung Wang
09:20-09:40 A-02	Impact of Average Elevation of Basins on Earlier Snowmelt Caused by Climate Change Nobuo ITO(Civil Engineering Research Institute for Cold Region ,PWRI), Yuji SUTO, Kazumasa NAKAMURA
09:40-10:00 A-03	Assessment of Climate Change Impact on Crop Yields in Northern Taiwan by Using Principal Component Analysis Ray-Shyan Wu(National Central University), MING-HSU LI, JI-TANG FANG, CHI-MEI WANG
10:00-10:20 A-04	A Distributed Hydrological Model for Climate Change Impact Assessment S. H. Kim(Konkuk University), S. R. Ahn, J. Y. Park, R. Ha, S. J. Kim

Sessions_Oral Presentation

30(Wed), October 09:00-10:20

Jikji Hall (B)

Session 3-1 : Rural Planning and Environment

Chair: Noriyuki Koizumi (National Institute for Rural Engineering)
Song Bae Kim (Seoul National University)

09:00-09:20 C-01	Water Management at Large-Sized, Sub-Irrigation-Installed Paddy Fields NAKAMURA Kazumasa(Civil Engineering Research Institute for Cold Region , PWRI), KOHIYAMA Masayuki, UNOKI Keiji
09:20-09:40 C-02	Field Evaluation of Hybrid Turbidity Reduction System for Managing Agricultural Non-point Source Pollution Minyoung Kim(National Academy of Agricultural Science), Seounghee Kim, Sangbong Lee, Jinoh Kim, YoungjinKim, YonghoCho
09:40-10:00 C-03	Development of a Simple Method of Discrimination between the Dojo and Kara-dojo Loaches for the Conservation of Japan's Rural Ecosystem Noriyuki Koizumi(Institute for Rural Engineering, National Agriculture and Food Research Organization), Kazuya Nishida, Atsushi Mori, Keiji Watabe, Takeshi Takemura
10:00-10:20 C-04	Groundwater Level Prediction using Artificial Neural Networks at the Zhuoshui River Basin in Taiwan Jun-Lin Huang(National Taiwan University), Yi-HungChen, Wen-PingTsai, Kuang-ChihChang, Fi-JohnChang

Sessions_Oral Presentation

30(Wed), October 09:00-10:15

Jikji Hall (C)

Session 6-1 : Student Session I

Chair: Hiroshi Ikeura (Japan International Research Center for Agricultural Sciences)
Seung Jin Maeng (Chungbuk National University)

09:00-09:15 F-01	Pollutant Load Management of Freshwater Reservoir Watershed by Using HSPF and WASP Heesang Oh(Konkuk University), Chun Gyeong Yoon, Yeong-Kwon Son, Han-Pil Rhee, Daeho Han
09:15-09:30 F-02	Modeling the Future Water Footprint of Paddy Rice in the Republic of Korea Temba Nkomozezi(Kyungpook National University), Sang-Ok Chung
09:30-09:45 F-03	Effect of Return Flow on Water Temperature in Irrigation-Drainage Canal under Spill-over Paddy Irrigation Masaomi KIMURA(University of Tokyo), Kouki KASAI, Toshiaki IIDA, MARIE Mitsuyasu, Naritaka KUBO
09:45-10:00 F-04	Evaluation of Applicability and Simulation of Nitrogen Cycle Using LM3V Model of South Korea Rim Ha(Konkuk University), Jong-Yoon Park, Sang-Ho Kim, So Ra Ahn, Seong-Joon Kim
10:00-10:15 F-05	The Suitability Evaluation of Dredged Soil from Reservoir as Embankment Materials Jaesung Park(Seoul National University), Younghwan Son, Sookack Noh, Taeho Bong
10:00-10:15 F-06	Comparison of Design Flood for Different Regional Climate Models under Climate Change Jihoon Park(Seoul National University), Moon Seong Kang, Inhong Song

Sessions_Oral Presentation

30(Wed), October 11:00-12:00

Jikji Hall (A)

Session 1-2 : Climate Change and Water Resources

Chair: Moon Seong Kang (Seoul National University)
Kyung Sook Choi (Kyungpook National University)

11:00-11:20 A-05	Application of Improved SWAT Model for Assessing Climate Change Impact and Adaptation in Agricultural Water Resources Management Jong-Yoon Park(Konkuk University), In-Kyun Jung, Rim Ha, Jun-Woo Lee, Seong-Joon Kim
11:20-11:40 A-06	Climate Change Action Plan for Water Resources in Taiwan Wei-Fu Yang(Water Resouece Agency, Ministry of Economic Affairs), Chi-Ming Chen, Pei-Jung Wu
11:40-12:00 A-07	Paddy Growth and GHG Emission in SRI Paddy Fields Subjected to Lowering Groundwater Level Budi I. Setiawan(Bogor Agricultural University), Arief Irmansyah, Chusnul Arif, Tsugihiro Watanabe, Masaru Mizoguchi, Hisaaki Kato

Sessions_Oral Presentation

30(Wed), October 11:00-12:20

Jikji Hall (B)

Session 3-2 : Rural Planning and Environment

Chair: Seongjik Park (Hankyong National University)
Taeil Jang (Chonbuk National University)

11:00-11:20 C-05	Application and Characteristic according to the Foundation of Greenhouse on the Reclaimed Land Seongyoon Lim(Chungbuk National University), Jung Koo Park, Yun Seok Kang, Chang Seob Song
11:20-11:40 C-06	Assessment of Rice Straw and Husks for using Feedstock for Biomass Gasification Seonggu Hong(Hankyong National University), Long Wang
11:20-12:00 C-07	Determining Optimal Soil Moisture for Irrigated Rice in Indonesia with System of Rice Intensification Chusnul Arif(Bogor Agricultural University), Masaru Mizoguchi, Budi Indra Setiawan, Tsugihiro Watanabe
12:00-12:20 C-08	Assessing Watershed Prioritization for Implementing Conservation Practices Taeil Jang(Chonbuk National University), Jaegwon Son, Jinkyu Choi, Hyejin Oh, Hyejin Woo, George Vellidis

Sessions_Oral Presentation

30(Wed), October 11:00-12:15

Jikji Hall (C)

Session 6-2 : Student Session II	
Chair: Junya Onishi (Japan International Research Center for Agricultural Sciences) JinYong Choi (Seoul National University)	
11:00-11:15 F-07	Estimating Pollutant Load by Impervious Area from Nonpoint Source Using SWMM Model Jae-ho Choi(Konkuk University), Chun Gyeong Yoon, Han-Pil Rhee, Je Ha Ryu, Moon Soo Cho
11:15-11:30 F-08	Analysis of Irrigation Service Needs by Rice Farming Families in Japan Toshiaki IIDA(University of Tokyo), Masaomi KIMURA, Koshi YOSHIDA, Naritaka KUBO, Takahiro YOKOI
11:30-11:45 F-09	Enhancement of SATEEC GIS system using ArcPy and ArcMap 10.1 G. J. Lee(Kangwon National University), J. M. Lee, D. H. Kum, C. H. Jang, J. E. Yang, K. J. Lim
11:45-12:00 F-10	Runoff Characteristics of Non-point Source Pollution from Reclaimed Paddy Yujin Lee(Konkuk University), Chun Gyeong Yoon, Joon-Sik Kim, Moonsoo Cho, Seungil Lee
12:00-12:15 F-11	The Infiltrated Nutrient Loads Assessment of Shallow Groundwater in Protected Cultivation and Paddy Field Eun-Mi Hong(Seoul National University), Jin-Yong Choi, Won-Ho Nam, Moon-Seong Kang, Jeong-Ryeol Jang

Sessions_Oral Presentation

30(Wed), October 14:30-15:50

Jikji Hall (A)

Session 2-1 : Sustainable Soil and Water Management

Chair: Fi-John Chang (National Taiwan University)

14:30-14:50 B-01	<p>Assessment of Water Delivery Efficiency at Irrigation Canals using Performance Indicators</p> <p>Won-Ho Nam(Seoul National University), Jin-Yong Choi, Eun-Mi Hong, Jin-Taek Kim</p>
14:50-15:10 B-02	<p>Spatiotemporal stochastic model for multi-site streamflow simulation - with an application for irrigation management</p> <p>Hsin-I Hsieh(National Taiwan University), Ming-Daw Su, Ke-Sheng Cheng</p>
15:10-15:30 B-03	<p>Intelligent Real-time Water Level Forecast Models for Drainage System</p> <p>Ying-Ray Lu(National Taiwan University), Pin-An Chen, Yi-Hung Chen, Kai-Yao Chang, Fi-John Chang</p>
15:30-15:50 B-04	<p>Water-saving Effect of Simplify Surge Flow Method and ADF Method in Uzbekistan</p> <p>Junya Onishi(Japan International Research Center for Agricultural Science), Paluashova Ghavharay, Hiroshi Ikeura</p>

Sessions_Oral Presentation

30(Wed), October 14:30-15:50

Jikji Hall (B)

Session 4-1 : Agricultural Nutrient Management and Environmental Quality

Chair: Ming-Che Hu (National Taiwan University)
Tasuku Kato (Tokyo University of Agriculture and Technology)

14:30-14:50 D-01	Decrease of Egg-masses for the Japanese Brown Frog (<i>Rana japonica</i>) after Land Consolidation Project in Paddy Field Area, Japan Keiji Watabe(Institute for Rural Engineering, National Agriculture and Food Research Organization), Atsushi Mori, Noriyuki Koizumi, Takeshi Takemura, Kazuya Nishida
14:50-15:10 D-02	Applicability Study of Ecological Impact Assessment using AQUATOX Model in Paldang Reservoir, South Korea Heesang Oh(Konkuk University), Chun Gyeong Yoon, Han-Pil Rhee, YeongKwon Son
15:10-15:30 D-03	Applications of VFS Systems for Managing Non-point Source Pollutions of Upland Fields Kyung-Sook Choi(Kyungpook NationalUniversity), Jeong-Ryeol Jang
15:30-15:50 D-04	GIS-based Biomass Resource Planning for Taiwanese Power Market Ming-Che Hu(National Taiwan University), An-Lei Huang, Tzai-Hung Wen

Sessions_Oral Presentation

30(Wed), October 16:30-17:30

Jikji Hall (A)

Session 2-2 : Sustainable Soil and Water Management

Chair: Jiing-Yun You (National Taiwan University)
Hajime Tanji (National Institute for Rural Engineering)

16:30-16:50 B-05	<p>The Evaluation of the Nonstationary of Annual Maximum Precipitation in Taiwan: A Comparison of using Three Different Methods</p> <p>Po-Chun Chen(National Taiwan University), Gene Jiing-Yun You</p>
16:50-17:10 B-06	<p>The Determination of Optimal Time for Reservoir Empty Flushing</p> <p>Tsung-Hsien Chien(National Taiwan University), Gene Jiing-Yun You</p>
17:10-17:30 B-07	<p>Expansion of Leased Paddy Land and Crisis of Sustainability of Water User Associations in Japan</p> <p>Hajime Tanji(National Institute for Rural Engineering, NARO)</p>

Sessions _Oral Presentation

31(Thu), October 09:00-11:00

Grand Ballroom (C)

Session 5 : Multifunctional Role of Agricultural Water in Terms of Social and Economic Effect	
Chair: Ray-Shyan Wu (National Central University) Kosuke Noborio (Meiji University)	
09:00-09:20 E-01	Screening Rice (<i>Oryza sativa L.</i>) Varieties Suitable for System of Rice Intensification (SRI) K. Noborio(Meiji University), J. Lanceras-Siangliw, K. Katano, M. Mizoguchi, T. Toojinda
09:20-09:40 E-02	Effect of SRI Methods on Water Use, NPS Pollution Discharge, and GHG Emission in Korean Trials Joongdae Choi(Kangwon National University), Gunyeob Kim, Woonji Park, Suin Lee, Deogbae Lee, Dongkoun Yun
09:40-10:00 E-03	System of Rice Intensification for Enhancing Water Productivity and Sustainable Rice Production -Experiences in INDIA R Mahender Kumar(Directorate of Rice Research (DRR)), K. Surekha, Ch Padmavathi, N. Somashekar, P. Raghuv eer Rao, P. C. Latha, L. V. SubbaRao, B. Sreedevi, B. Gangaiah, S. Ravichandran, P. Muthuraman, Subramaniam Gopalakrishnan, V. Vinod Goud, B. C. Viraktamath, Om Rupela
10:00-10:20 E-04	The Impact of Agricultural Policy to Rural Water Management in Northern Taiwan Ray-Shyan Wu(National Central University), Chia-Chi Ma
10:20-10:40 E-05	Irrigation Practice and Irrigation Management Improvement in Baingda Irrigation Project Maung Maung Naing(Irrigation Technology Centre), Zaw Min Htut, Yutaka Matsuno, Haruhiko Horino
10:40-11:00 E-06	Nitrogen and Weed Management in No-tilled Transplanted Rice on No-tilled Transplanted Rice - Surface Seeded Wheat Cropping System under Conservation Agriculture Pijush K Mukherjee(Uttar Banga Krishi Viswavidyalaya (UBKV)), Biswapati Sinha

Sessions_Oral Presentation

31(Thu), October 09:00-10:20

Jikji Hall (A)

Session 4-2 : Agricultural Nutrient Management and Environmental Quality

Chair: Tsang-Jung Chang (National Taiwan University)
In Hong Song (Seoul National University)

09:00-09:20 D-05	Feasibility Analysis of Nitrogen Balance in Paddy Fields toward New Irrigation Service for Rice Quality Tasuku Kato(Tokyo University of Agriculture and Technology), Toshiakilida
09:20-09:40 D-06	Runoff Water Quality from Miscanthus Plantation Fields Seonggu Hong(Hankyong National University), Sungjik Park
09:40-10:00 D-07	Relational Analysis between Yield and Planting Condition of Rainy Season Rice in Low Productive Fields: a Case Study in Lao PDR Hiroshi Ikeura(Japan International Research Center for Agricultural Sciences), Phetyasone Xaypanya, Sengthong Phongchanmixay, Somphone Inkhamseng, Somnuck Soubat, Salermphon Inkhamseng, Somnuck Soubat, Salermphon Phonangeone, Soulintha Chanthabuly
10:00-10:20 D-08	Investigation of Organic Fertilizer to Reduce Insecticide -Assessment of Paddy Ecosystem Using Emergence Husks of Red-dragonflies Tadao AODA(Niigata University), Kai KATANO, Hiroshi JINGUJI

Sessions_Oral Presentation

31(Thu), October 09:00-10:45

Jikji Hall (B)

Session 6-3 : Student Session III	
Chair: Kyoung Jae Lim (Kangwon National University) Min Won Jang (Gyeongsang National University)	
09:00-09:15 F-12	Assessment of Drought Vulnerability Considering Climate Exposure and Anti-drought Capacity of Reservoirs based on RCP Scenarios Na-Young Park(Seoul National University), Jin-Yong Choi, Sang-Hyun Lee, Seung -Hwan Yoo
09:15-09:30 F-13	Simulating Daily Streamflows Coupled Upper Irrigation Reservoirs in Geumho River Basin, Korea Jaekyoung Noh(Chungnam National University), Jaenam Lee
09:30-09:45 F-14	A study on the Water Quality Improvement of Reclaimed Watershed Using HSPF/EFDC Moonsoo Cho(Konkuk University), Je-ha Ryu, Chun Gyeong Yoon, Jae Ho Choi
09:45-10:00 F-15	Evaluation of Effects on Baseflow of Using Measured Field Slope Length and Slope using SWAT Ji Min Lee(Kangwon National University), Younghun Jung, Gwan Jae Lee, Seong Joon Kim, Joong Dae Choi, Kyoung Jae Lim
10:00-10:15 F-16	Assessment of Paddy Field Runoff on Water Quality of Yeongsan River Basin by Load Duration Curve Dongho Choi, Jaewoon Jung(Chonnam National University), Kwangsik Yoon, Woojung Choi, Hana Park
10:15-10:30 F-17	Evaluation of Water Quality Properties in Agricultural Reservoirs Using Multivariate Analysis Joon-Sik Kim(Konkuk University), Chun Gyeong Yoon, Jae-Ho Choi, Moonsoo Cho, Je ha Ryu
10:30-10:45 F-18	Comparison of Nonpoint Source Pollution Loads from Tillage and No-Tillage Upland Crop Areas by HSPF Watershed Modeling So Ra Ahn(Konkuk University), Sang Ho kim, Rim Ha, Jong Yoon Park, Seong Joon Kim

Sessions_ Poster Presentation

30(Wed), October 17:20-18:20

Joosung Hall

Chair: Hwa-Lung Yu (National Taiwan University) Ke-Sheng Cheng (National Taiwan University) Seong-Joon Kim (Konkuk University)	
P-1	Climate Change Vulnerability Assessment for Agricultural Infrastructure in Korea Sang Min Kim(Gyeongsang National University), Sung Jae Kim, Sung Min Kim, Min Won Jang
P-2	Presence of Small Drainage Pond Alleviated the Non-Point Source Pollution Load in the Paddy Rice Field Min-Kyeong Kim(National Academy of Agricultural Science), Soon-Ik Kwon, Goo-Bok Jung, Seong-Chang Hong, Mi-Jin Chae, Kyu-Ho So
P-3	An Analysis of Runoff Characteristics of Hosan Stream Using Rainfall-Runoff Model Seung J. Maeng(Chungbuk National University), Ji H. Shim, Gil S. Hwang, Dong O. Kim, Ji H. Jeong
P-4	Development of Irrigation Management Method for Reducing Inflow of Radioactive Substances in Japan Moono Shin(National Agriculture and Food Research Organization), Tomijiro Kubota, Koji Hamada, Tadayoshi Hitomi
P-5	Effect of Land Use Chaining in Chungju on Flood Hydrograph in 1997 and 2008 Ho-Jin Lee(ChungBuk National University), Sung-Duk Kim, Hyosang Lee
P-6	National Risk Assessment of Irrigation on the Farmland near Wastewater Treatment Plants in Korea Jae-Ho Choi(Konkuk University), Chun Gyeong Yoon, Han-Pil Rhee, Moonsoo Cho, Je ha Ryu
P-7	Analysis of Release Characteristics of Sediment and Water Quality Changes at Forest Dominated Watershed Seungil Lee(Konkuk University), Chun Gyeong Yoon, Yujin Lee, Kwang Wook Jung, Jeha Ryu
P-8	Phosphorus Treatment Characteristics According to Design of Constructed Wetland Moonsoo Cho(Konkuk University), Chun Gyeong Yoon, Joon-Sik Kim, Yujin Lee, Han-Pil Rhee

P-9	<p>Evaluation of Mass Balance in Korean Paddy Rice Culture under Reservoir Irrigation</p> <p>Jung Hun Song(Seoul National University), Moon Seong Kang, Inhong Song, Soon Ho Hwang, Jihoon Park, Jeong Ryeol Jang</p>
P-10	<p>Feasibility Study for Agricultural Reuse of Reclaimed Wastewater in Korea</p> <p>Han-Pil Rhee(Konkuk University), Chun Gyeong Yoon, Joon-Sik Kim, Jae-Ho Choi, Seungil Lee</p>
P-11	<p>Comparison of the Conversion Techniques of the Huff Methods for Developing the Temporal Rainfall Distribution</p> <p>Min Jun(Seoul National University), Young Gu Her, Soonho Hwang, Moon Seong Kang</p>
P-12	<p>Analysis of the Runoff Characteristics of Yongdamdam Watershed Using Multi-Point Hydrological Observations and SWAT Model</p> <p>Hyung-Jin Shin(Korea Water Resources Corporation), Hyo-Sok Chae, Min-Ji Park, Seong-Joon Kim</p>
P-13	<p>Comparison of EMCs for NPS Pollutants from Liquid Pig-manure and Chemical Fertilizer Application on Paddy Field</p> <p>Soonho Hwang(Seoul National University), Moon Seong Kang, Sang Min Jun, Jung Hun Song, Inhong Song</p>
P-14	<p>Evaluating the Impact of Climate Change Based on RCPs on a Variation of Transplanting Season and Effective Rainfall of Paddy Rice in Korea</p> <p>Sang-Hyun Lee(Seoul National University), Jin-Yong Choi, Seung-Hwan Yoo</p>
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Venue

RAMADA PLAZA HOTEL

Address: 500-3 Yulrang-dong, Sangdang-gu, Cheongju, Chungbuk, Korea

Tel: +82-43-290-1000

Fax: +82-43-290-1010

Email: reservation@ramadakorea.co.kr

Website: <https://www.ramadakorea.co.kr/>

Check-in Time: 03:00 PM

Check-out Time: 12:00 PM

Fee: 150,700 won/day (One person, Including breakfast), 169,400 won/day (Two persons, Including breakfast)

Accommodations

REEHO TOURIST HOTEL

Address: 35-7 Biha-dong, Heungdeok-gu, Cheongju, Chungbuk, Korea

Tel: +82-43-233-8800

Website: <http://www.hotelreeho.co.kr/>

Check-in Time: 02:00 PM

Check-out Time: 12:00 PM

Fee: 80,000 won/day (Including breakfast)

HOTEL GALLERY

Address: Bongmyeong-dong, Heungdeok-Gu, Cheongju, Korea

Tel: +82-43-267-1121

Fax: +82-43-263-9532

Email: info@newgalleryhotel.com

Website: <http://www.newgalleryhotel.com/>

Check-in Time: 02:00 PM

Check-out Time: 12:00 PM

Fee: 66,000 won/day (Including breakfast)

At the Cheongju Shi-We (시외) Bus Terminal (Not Gosok Bus Terminal) you may take a taxi to the Ramada Plaza and Hotel Gallery. It takes about 25 and 15 minutes respectively, and the fare is about 10,000 won and 7,000 won if not in traffic. Reeho Hotel is also located 5 minute walk distance.

The shuttle bus will run between hotels and conference venue during the conference period. The bus timetables are as follows:

October 30-31: Reeho hotel at 8:00 am and hotel Gallery at 8:15.

November 1: Ramada hotel at 8:00 am, hotel Gallery at 8:15, and Reeho hotel at 8:30.



Incheon International Airport(ICN) to Ramada Plaza Cheongju, Reeho Tourist Hotel and Hotel Gallery



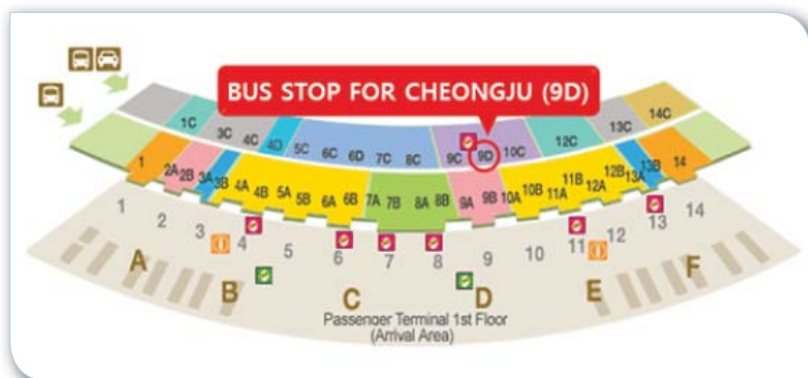
Located about 130km northwest of Cheongju, Incheon International Airport wins the Airport Service Quality (ASQ) Award for the eighth year in a row to be the first in the industry, and at the same time reaching a remarkable achievement of operating the world's second largest amount of air cargo and the world's ninth largest number of passengers in 2012 based on its wide aviation network across 173 cities in 53 countries.

<http://www.airport.or.kr>

Tel: +82-1577-2600

By Airport Limousine

You can get information about Limousines Buses, and ticketing at the following ticket booths : Exit 4 and 9 (indoors) & Exit 4, 6, 7, 8, 11, 13, and 9C (outdoors). The bus stop for Cheongju is at 9D on the 1stFloor. The fares are 18,700 won and 20,600 won (after 23:00) to Cheongju Shi-We (시외) Bus Terminal. The bus runs every 20~60 minutes from 06:30 to 23:10, and it takes about 120~150 minutes. Do not confuse Cheongju (청주, 淸州) with Chungju (충주, 忠州) nor Jeonju (전주, 全州).



At the Cheongju Shi-We (시외) Bus Terminal, you may take a taxi to the Ramada Plaza Cheongju. It takes about 25 minutes, and the fare is about 10,000 won if not in traffic.

By Airport Railroad Express (AREX) - KTX

You can take the Airport Railroad Express (on B1 floor) for Seoul KTX Station. It takes 43 minutes for Express train and 53 minutes for Commuter train between Incheon International Airport and Seoul KTX Station. The fares are 8,000 won and 3,950 won, respectively.



At Seoul Station, KTX (Korean Train Express) comfortably takes you to Osong Station about 22 km west of the Ramada Plaza Cheongju. It runs almost every hour, and the fare is 17,200 won (but 18,500 won from Friday to Sunday). It takes about 45-55 minutes.

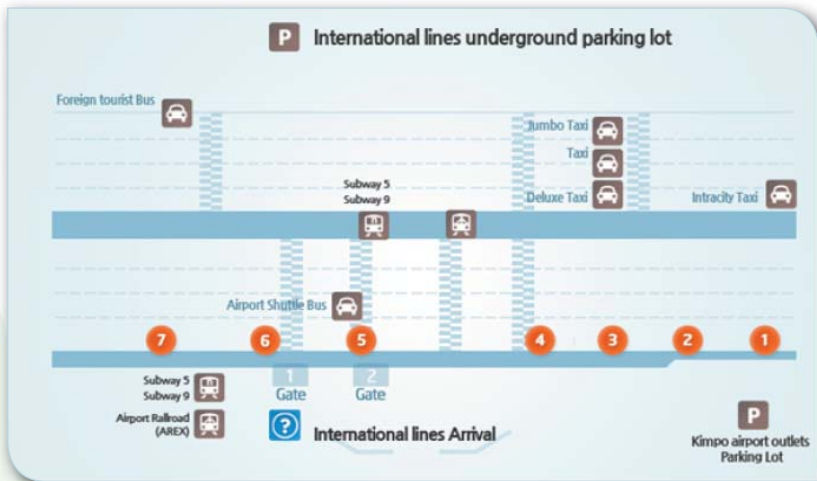
You can get a taxi to the hotel at the Osong Station (travel time: approx. 35 minutes, fare: 20,000 won).

*Incheon Airport Rental Car Service (KT Kumho/AVIS)

You may want to rent a car at the ICN. Car rental service is available at near Exit 3 on the terminal 1F.

Gimpo International Airport(GMP) to Ramada Plaza Cheongju

If you arrive at the Gimpo International Airport, you can get a bus for Cheongju at the stop 2 on the 2nd floor in the international terminal. The fare is 11,500 won (12,800 Won for 22:40) to the Cheongju Shi-We (시외) Bus Terminal. The bus runs every one hour from 08:00 to 22:40, and it takes about 120 minutes.



PAWEES 2013

**The 12th Conference of International Society of
Paddy and Water Environment Engineering**

“Agricultural water and rural environment for the future”

