

PARALLEL TECHNICAL SESSIONS			
<i>Session IA</i>	<i>Session IB</i>	<i>Session IC</i>	<i>Session ID</i>
Technology for Sustainable Water and Environmental Management	Technology for Sustainable Water Use and Agricultural Development	Establishment of Sustainable Paddy Farming for Food Security and Poverty Alleviation	Modernization of Irrigation and drainage schemes
Venue: Auditorium Jurutera	Venue: Dewan Seminar, Level 2	Venue: Galeri 2	Venue: Bilik Gunasama
Chairperson: Dr. Ahmad Fikri Abdullah	Chairperson: Dr. Aimrun Wayayok	Chairperson: Dr. Rowshon Kamal	Chairperson: Prof. Dr. Thamer Ahmed Mohamed
09:00-09:15			
PIJIC2015-63 Rainwater Harvesting Sites Selection By Using Remote Sensing And Gis Techniques; A Case Study Of Kirkuk, Iraq <i>Faez Hussein Buraihi, Abdul Rashid b. Mohamed Shariff (Malaysia)</i>	PIJIC2015-84 Malaysia Paddy Production, 1963 – 2030 <i>Yogambigai Rajamoorthy, Subramaniam Munusamy (Malaysia)</i>	PIJIC2015-69 SRI-Tray: Breakthrough in Nursery Management for the System of Rice Intensification <i>Zubairu Usman Bashar, Aimrun Wayayok, Amin M.S.M, Mohammad Razif Mahadi, Bande Y.M (Malaysia)</i>	PIJIC2015-01 Irrigation Pattern Analysis Using Wavelet Transform in Agricultural Reservoir Sung-Hack Lee, Sang-Hyun Lee, Jin-Yong Choi

09:15-09:30

<p>PIJIC2015-7</p> <p>Homogeneity Analysis of Rainfall in Malaysia</p> <p><i>Ng Jing Lin, Samsuzana Abd Aziz, Huang Yuk Feng, Aimrun Wayayok, Md Rowshon Kamal (Malaysia)</i></p>	<p>PIJIC2015-81</p> <p>Variability of Rice Yield with Respect to Crop Health</p> <p><i>Renny Eka Putri, Azmi Yahya, Nor Maria Adam and Samsuzana Abd Aziz (Malaysia)</i></p>	<p>PIJIC2015-75</p> <p>Performance of UMAR-SRI^{mat} on Soil Water Conservation and Weed Control in System of Rice Intensification</p> <p><i>Umar Mohammed, Aimrun Wayayok, Mohd Amin Mohd Soom, Khalina Abdan (Malaysia)</i></p>	<p>PIJIC2015-26</p> <p>Water And Mass Balance Analysis In Pump Irrigated Lowland Paddy Fields</p> <p><i>Tasuku Kato, Satoko Omno, Ryota Tsuchiya, Satomi Tabata (Japan)</i></p>
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09:30-09:45

<p>PIJIC2015-22</p> <p>Developing and Calibrating a Stochastic Rainfall Generator Model for Irrigation Scheduling</p> <p><i>N.S. Dlamini, M.K. Rowshon, A. Fikhri, S.H. Lai , Ujjwal Saha (Malaysia)</i></p>	<p>PIJIC2015-28</p> <p>Simulation of Rice Yield Under Water and Salinity Stress in Rasht Area Using Aquacrop Model</p> <p><i>Ebrahim Amiri, Hamidreza Ahmadzadeh Araji; Aimrun Wayayok; Majtaba Rezaei (Malaysia)</i></p>	<p>PIJIC2015-41</p> <p>Water and Nutrients Balance in Tropical-Highland Potato Field under Horizontal Ridge System with Different Fertilizers and Biochars Application</p> <p><i>Krissandi Wijaya, Ardiansyah, Eni Sumarni, Condro Wibowo, Ahadiyat Yugi Rahayu, Taku Nishimura, Budi Indra Setiawan (Indonesia)</i></p>	<p>PIJIC2015-61</p> <p>A Modified Empirical Model for Estimating the Wetted Zone Dimensions Under Drip Irrigation</p> <p><i>Ahmed A. M. Al-Ogaidi, Aimrun Wayayok, Md Rowshon Kamal, Ahmed Fikri Abdullah (Malaysia)</i></p>
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09:45-10:00

<p>PIJIC2015-97</p> <p>Groundwater Conceptual Model for Paddy Irrigation</p> <p><i>Ahmad Fikri Abdullah, Wan Amirul Wan Mustapa (Malaysia)</i></p>	<p>PIJIC2015-70</p> <p>Simulating Yield Response to Water Using Aquacrop</p> <p><i>Ebrahim Jahanshiri, Sue Walker, Aimrun Wayayok, Mohd Amin M. Soom, Azmi Yahya, Yuveena Gopalan, S.G.P. Virdis (Malaysia)</i></p>	<p>PIJIC2015-50</p> <p>Nitrogen Uptake of SRI Paddy Field compare to Conventional Field</p> <p><i>Ardiansyah, Chusnul Arif, Krissandi Wijaya (Indonesia)</i></p>	<p>PIJIC2015-3</p> <p>Low Flow Duration Frequency Relationships of Selected Catchments in the Blue Nile Basin</p> <p><i>Jeremy P. Mondejar & Patrick William (Phillipines)</i></p>
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10:00-10:30**COFFEE BREAK****10:30-10:45**

<p>PIJIC2015-98</p> <p>Development of 3D Model View of Potential Groundwater Aquifer for Irrigation Using Geophysical Technique</p> <p><i>Fathin Ayuni Azizan, Mohamed Azwan Mohamed Zawawi, Ahmad Fikri Abdullah (Malaysia)</i></p>	<p>PIJIC2015-29</p> <p>Modeling of Rice Harvested Area and Its Impact on Rice Yield and Production in Mekong River Basin</p> <p><i>Kenji Tanaka, Yoshida Koshi, Maeda Shigeya, Kuroda Hisao (Japan)</i></p>	<p>PIJIC2015-95</p> <p>Suitability of Capsule as a Paddy Coating Material for the System of Rice Intensification (SRI)</p> <p><i>Tukur Daiyabu Abdulkadir, Wan Ishak Wan Ismail, Muhammad Saufi Mohd Kasim, Siti Khairunniza bt. Bejo (Malaysia)</i></p>	<p>PIJIC2015-17</p> <p>A Case Study of Small Earthfill Dam Damaged by Debris Flow in Japan</p> <p><i>Daisuke Shoda, Hisato Suzuki, Hiroshi Yoshisako, Keisuke Inoue, Michiaki Konno (Japan)</i></p>
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10:45-11:00

<p>PIJIC2015-96</p> <p>Detection of Fractured Aquifer Using Combination of Resistivity and Induced Polarization Analysis</p> <p><i>Mohamed Azwan b Mohamed Zawawi, Noorellimia bt Mat Toridj, Aimrun Wayayok (Malaysia)</i></p>	<p>PIJIC2015-72</p> <p>Predicting Paddy Rice Production Under An Integrated Cropping System on Malaysian East Coast</p> <p><i>Y. Gopalan, S. Walker, E. Jahanshiri, S.G.P. Virdis (Malaysia)</i></p>	<p>PIJIC2015-99</p> <p>Initial Design of an Automated System for Paddy Seedling Placement in a Germination Tray</p> <p><i>Muhammad Firdaus Mohd Rosli, Muhammad Razif Mahadi, Muhammad Afiq Misri, Aimrun Wayayok (Malaysia)</i></p>	<p>PIJIC2015-16</p> <p>Optimal shapes of weirs for trapping migratory fish</p> <p><i>Tadasuke Nakamichi, Koichi Unami, and Masayuki Fujihara (Japan)</i></p>
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11:00-11:15

<p>PIJIC2015-14</p> <p>Numerical Analysis of Density-Driven Fluctuation in Groundwater Caused by Saltwater Intrusion</p> <p><i>Makoto Kawabata, Junichiro Takeuchi, and Masayuki Fujihara (Japan)</i></p>	<p>PIJIC2015-19</p> <p>Aeroller : Herbicides Roller Machine for Aerobic Rice Weed Control</p> <p><i>Mohd Khusairy K., Ayob H., Chan C. S., Mohamed Fauzi M. I., and Mohamad Fakhru Zaman O., M.Shahril Shah GS., Azlan O., Abdul Rasad M., Mohd Hashim A., Saifulizan M. N. (Malaysia)</i></p>	<p>PIJIC2015-77</p> <p>Crop Coefficient and Water Productivity in Conventional and System of Rice Intensification (SRI) Irrigation Regimes of Terrace Rice Fields in Indonesia</p> <p><i>Chusnul Arif, Kazunobu Toriyama, Bayu Apri Dwi Nugroho, Masaru Mizoguchi (Indonesia)</i></p>	<p>PIJIC2015-87</p> <p>Methane Emission From Paddy Soil in Relation to Soil Temperature in Tropical Region</p> <p><i>Fazli P., Hasfalina C. M., Mohamed Azwan M.Z., Umi Kalsom M. S., Nor Aini A. R., Azni I.</i></p>
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11:15-11:30

<p>PIJIC2015-30</p> <p>Groundwater Modeling for Groundwater Management in the Coastal Area of Mekong Delta, Vietnam</p> <p><i>Nguyen Dinh Giang Nam, Akira Goto, Kazutoshi Osawa (Japan)</i></p>	<p>Pijic2015-107</p> <p>Development of Real Time Soil Nutrient Mapping System in Paddy Field</p> <p><i>M.H. Ezrin, W. Aimrun, M.S.M. Amin. And S.K. Bejo (Malaysia)</i></p>	<p>Pijic2015-76</p> <p>The Role of Groundwater to Mitigate the Drought and as an Adaptation to Climate Change in the Phitsanulok Irrigation Project, in The Nan Basin, Thailand</p> <p><i>Sucharit, Koontanakulvong, Chokchai Suthidhummajit (Thailand)</i></p>	<p>PIJIC2015-15</p> <p>Constructing an Estimation Model on Fish Diversity based on Heterogeneous Data</p> <p><i>Jia Hao Hu, Wen Ping Tsai, Chi Jyun Yu, Fi John Chang (Tawan)</i></p>
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11:30-11:45

<p>PIJIC2015-105</p> <p>Proposed Wireless Connection System Based on Zigbee Technology in Real Time Application</p> <p><i>Abdallah Alsayed, Muhammed Razif Mahadi, Aimrun Waykok, Wan Ishak B Wan Ismail (Malaysia)</i></p>	<p>PIJIC2015-18</p> <p>Optimization of Energy Use Intensity Using Data Envelopment Analysis and Benchmarking Methodology for Sustainable Rice Cultivation Under Wetland Direct Seeding Conditions in Malaysia</p> <p><i>A. Muazu, A. Yahya, W.I.W. Ishak and S. Khairunniza-Bejo (Malaysia)</i></p>	<p>PIJIC2015-100</p> <p>Effects of Water Ponding on Decreasing Leaf and Panicle Temperature in Rice Paddy Fields</p> <p><i>Yanyan Wang, Hiroki Oue, Sanz Grifrio Limin, Sartika Laban (Japan)</i></p>	<p>PIJIC2015-8</p> <p>Plant-Feeding Habit of the Red-Eared Turtle Based on Analysis of Environmental DNA Extracted from Their Feces Samples</p> <p><i>Noriyuki Koizumi, Atsushi Mori, Takuya Mineta, Eiji Sawada, Keiji Watabe and Takeshi Takemura (Japan)</i></p>
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11:45-12:00

<p>PIJIC2015-59</p> <p>A Combined Sensitivity Analysis of Seven Potential Evapotranspiration Models</p> <p><i>Muhamad Askari, Mohd Azizi Mustafa, Budi Indra Setiawan, Mohd Amin Mohd Soom, Sobri Harun, Mohamed Roseli Zainal Abidin, Zulkifli Yusop (Malaysia)</i></p>	<p>PIJIC2015-91</p> <p>Relationship Between Soil Moisture Content in Paddy Field and Its Image Texture</p> <p><i>Siti Khairunniza Bejo, Nor Hafizah Sumgap, Siti Nurul Afiah Mohd Johari (Malaysia)</i></p>	<p>PIJIC2015-10</p> <p>The Study on the Relation Between the Thickness of Oxidation Layer and Denitrification</p> <p><i>Lin Xiaolan, Yoshida Kaoshi, Maeda Shigeya, Kuroda Hisao (Japan)</i></p>	<p>PIJIC2015-65</p> <p>Spatial Analysis of Farm Pond Landscape and Bird Ecology in Hsinhua, Tainan</p> <p><i>Chih Hung Tan, Hsiang Yi Hsu, Tzyy Woei Chu, Wei Yi Wei, Meng Hsien Chuang, Fang Ju Liu, Ching Chi Chen, and Chi Feng Tsai (Taiwan)</i></p>
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12:00-12:15

<p>PIJIC2015-48</p> <p>A Distributed Soil Moisture Model for the Irrigation Factors Assessment Using Enhanced Meteorological Data</p> <p><i>Min Ki Hong, Jin Yong Choi, Seung Jae Lee, Sung Hack Lee (Korea)</i></p>	<p>PIJIC2015-80</p> <p>Application of Satellite Image Data to Evaluation of Frog Habitats in Paddy Fields, Japan</p> <p><i>Keiji Watabe, Atsushi Mori, Noriyuki Koizumi, Takeshi Takemura and Chika Zukemura (Japan)</i></p>	<p>PIJIC2015-2</p> <p>Assessing the Impacts of Irrigation Systems on Food Security in Southwestern Nigeria</p> <p><i>Christopher O. Akinbile, Olawale A. Oyebanjo, Fidelis O. Ajibade, Hasfalina Che Man, Olufemi O. Olubanjo</i></p>	<p>PIJIC2015-36</p> <p>Channeling People and Water, Beyond Technical Solutions - Transdisciplinary Approach in Practice, A Case Study From Indonesia</p> <p><i>Dorotea Agnes Rampisela (Japan)</i></p>
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12:30-14:00

LUNCH

<i>Session IIA</i>	<i>Session IIB</i>	<i>Session IIC</i>	<i>Session IID</i>
Water Quality Management for Agriculture and Environment	Technology for Sustainable Water Use and Agricultural Development	Integrated Watershed Management	Droughts and flood disaster risk management
Venue: Dewan Kuliah	Venue: Galeri 2	Venue: Dewan Seminar, Level 2	Venue: Bilik Gunasama
Chairperson: Assoc. Prof. Dr. Hasfalina Che Man	Chairperson: Assoc. Prof. Dr. Abdul Halim	Chairperson: Dr. Badronnisa Yusuf	Chairperson: Dr. Muhamad Askari

14:00-14:15

PIJIC2015-104	PIJIC2015-78	PIJIC2015-68	PIJIC2015-35
Effect of Water Hyacinth on Water Quality and Macroinvertebrate Diversity in a Tropical Reservoir	The Influence of Climate Change on Irrigation Water Requirement for Corn Fields in The Coast Region of Ecuador	Evaluation of Streamflow by Forest Restoration in Rural Small Catchment for Future Climate Change Adaptation	Agricultural Water-Gate Management for Operational Flood Protection in Low-Lying Paddies
<i>Nguyen Thi Hanh Tien, Pieter Boets, Koen Lock, Hoang Thi Thu Huong, Gert Everaert, Peter L.M. Goethals (Belgium)</i>	<i>Nicolás Borja, Jaepil Cho, Kyungsook Choi (Korea)</i>	<i>Ji Wan Lee, So Ra Ahn, Sun Sook Jang, Seung Joan Kim (Korea)</i>	<i>Yumi Yoshioka, Takao Masumoto, Kazuhiko Maruyama, Hiroki Minakawa (Japan)</i>

14:15-14:30

<p>PIJIC2015-93</p> <p>Adsorption of Acid Orange 7 by Cetylpyridinium Bromide Modified Sugarcane Bagasse</p> <p><i>Nik Ahmad Nizam Nik Malek, Nurain Mat Sihat, Mahmud A.S. Khalifa, Auni Afiqah Kamaru, Nor Suriani Sani (Malaysia)</i></p>	<p>PIJIC2015-33</p> <p>Prediction of Growth Period for Paddy Rice Assuming Climate Warming in Cold Snowy Regions</p> <p><i>Ito Nobuo , Nakamura Kazumasa, Koshiyama Naoko, Sakai Miki (Japan)</i></p>	<p>PIJIC2015-85</p> <p>Effects of Landuse Pattern Change on Rainfall-Runoff and Runoff-Sediment Relations: A Case Study in Yom River Basin</p> <p><i>Thao Ngo, Aksara Putthividhya (Thailand)</i></p>	<p>PIJIC2015-101</p> <p>Comparison of Damaged Area by Agricultural Dam Break Flood Wave Using Hec-Ras and Drone Surveying</p> <p><i>Hyungkyung Joh, Jonghwa Park, Seongjoon Kim (Korea)</i></p>
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14:30-14:45

<p>PIJIC2015-62</p> <p>Polysulfone Membrane Test for Nutrient Reclamation of Kenaf Retted Wastewater</p> <p><i>Nabilah Huda A. H., Ramlah M. T., Aida Isma M. I., Siti Aisyah G., Nor Munirah A., Hasfalina Che Man (Malaysia)</i></p>	<p>PIJIC2015-42</p> <p>Effects of Ferrous Toxicity on Seedling Traits and Ion Distribution Pattern in Upland and Low Land Rice Under Hydroponic Conditions</p> <p><i>Nusrat Jahan, Muhammad Arshad Javed, Samiullah Khan (Malaysia)</i></p>	<p>PIJIC2015-9</p> <p>Green Drying Chamber by Using Vibration Components, Heat Exchanger and Micro Hydro in Buton Island, Indonesia</p> <p><i>La Ode Mohammad Firman (Indonesia)</i></p>	<p>PIJIC2015-39</p> <p>Evaluation of Makhoul Reservoir in Reducing Flood Risk in Baghdad City</p> <p><i>Yousif H. Al-Aqeeli, Dr. Samsuzana Abd Aziz, Dr. Badronnisa Yusuf, Dr. Aimrun Wayayok (Malaysia)</i></p>
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14:45-15:00

PIJIC2015-55 Effect Of Ion Pairs and Activity on Classification of Ground Waters For Irrigation Purpose in Arbil Plain <i>Avin Sabir Kareem, Akram Othman Esmail (Iraq)</i>	PIJIC2015-4 Mid-Summer Drainage Effects on Water Productivity of Rice Cultivars (Hashemi And Fajr) <i>Valiollah Karimi, Mohammad Alijani and Hatam Hatami (Iran)</i>	PIJIC2015-67 Analysis of Water Balance by Surface-groundwater Interactions Using SWAT Model for Han River Basin, South Korea <i>So Ra Ahn, Hyung Kyung Joh, Chung Gil Jung, Seong Joon Kim (Korea)</i>	PIJIC2015-60 Modelling Of Runoff to Solve Flooding Problem in Kelantan Watershed, Malaysia <i>Karim Ghorbani, Aimrun Wayayok, Ahmed Fikri (Malaysia)</i>
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15:00-15:15

PIJIC2015-106 Performance of Paddle Wheel Types in a Small Scale Tele-operated Boat Navigation <i>Nur Nadiah Ab Aziza, Muhammad Razif Mahadia, Muhammad Afiq Misriaa (Malaysia)</i>	PIJIC2015-52 Quantifying Water Balance of Subak Paddy Field Based on Continuous Field Monitoring <i>Satyanto K. Saptomo, Yudi Chadirin, Budi I. Setiawan, Wayan Budiasa, Hisaaki Kato, Junpei Kubota (Indonesia)</i>	PIJIC2015-54 SWAT Evaluation for Non-point Source Pollution Discharges in Haean Highland Agricultural Catchment of South Korea <i>Sunsook Jang, Sora Ahn, Hyungkyung Joh, Seongjoon Kim (Korea)</i>	PIJIC2015-94 Flood Damage Assessment in Agricultural Area in Selangor River Basin <i>Nur 'Atirah Muhadi, Ahmad Fikri Abdullah (Malaysia)</i>
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15:15-15:30

<p>PIJIC2015-82</p> <p>Survey of the impact of crude oil spillage through pipeline vandalism on environment and water quality in the Niger delta region of Nigeria</p> <p><i>Ahmed Tukur Umar, Prof. Dr. Mohd Shahwahid b Hj Othman, Prof. Dr. Khalid b Abdul Rahim, Dr. Abdul Rahim b Abdul Samad @Iammi (Malaysia)</i></p>	<p>PIJIC2015-12</p> <p>Study on the water resources recharge of the deterioration of water source for irrigation in traditional paddy field area</p> <p><i>Kuroda Hisao, Lin Xiaolan, Maeda Shigeya, Yoshida Koshi (Japan)</i></p>	<p>PIJIC2015-56</p> <p>SWAT Modeling for Nitrogen Budget Considering Atmospheric Deposition in a Watershed</p> <p><i>Chnuggil Jung, SoRa Ahn, Yonggawn Lee, Seongjoon Kim (Korea)</i></p>	<p>PIJIC2015-24</p> <p>Appropriate Design Safety Level of Flood Prevention Under the Climate Change</p> <p><i>Keisuke Higuchi, Yo Teruy, Akira Goto (Japan)</i></p>
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15:30-15:45

<p>PIJIC2015-73</p> <p>VRT Liquid Fertilizer Applicator for Soil Nutrient Management</p> <p><i>Muhammad Yamin, Wan Ishak bin Wan Ismail, Muhamad Saufi bin Mohd Kassim, Samsuzana Binti Abd Aziz, Ramin Shamshiri (Malaysia)</i></p>	<p>PIJIC2015-102</p> <p>Irrigation Practices for Rice Cultivation and Water Balance in an Agricultural Water User's Association Region in South Sulawesi in The First Dry Season</p> <p><i>Hiroki Oue, Sartika Laban, Agnes Rampisela (Japan)</i></p>	<p>PIJIC2015-32</p> <p>SWAT Model Improvement for Discharge Process in Rice Paddies</p> <p><i>Ryota Tsuchiya, Tasuku Kato, Jaehak Jeong (Japan)</i></p>	<p>PIJIC2015-71</p> <p>Roles a Drainage System Require to Prevent Water Hazards Under the Climate Change</p> <p><i>Hirohide Kiri, Tetsuo Nkaya and Issaku Azechi (Japan)</i></p>
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