

## 附件 1. 2010 PAWEES schedule

### Program structure

Day	26th Oct	27th Oct(Day 1)		28th Oct(Day 2)		29th Oct(Day 3)	30th Oct
Time	Arrival	INWEPF	PAWEES	INWEPF	PAWEES	IN-PW	Departure
9:00		Opening & symposium		S. meeting 1	Meeting 1	Field Trip	
13:30		Session 1		S. meeting 2	Meeting 2		
15:30		Session 2-1	Session 2-2	Free time	Workshop	Departure	
18:00		Welcome reception		Free time			
09:00-18:00		Exhibition on water supply system					

### Day I: Symposium (October 27, 2010)

Time	INWEPF-PAWEES
09:20 - 09:50	Accommodation to ICC (Lake hills Golfotel, Suite Hotel, Hana Hotel to Jeju ICC)
09:50 - 10:00	Registration (Lobby)
10:00 - 10:30 (Opening ceremony)	<ol style="list-style-type: none"> <li>Opening remarks: Chairman of The INWEPF Korean Committee, Mr. Hwang-Keun Chung</li> <li>Congratulatory remarks: President of PAWEES, Dr. Tsuyoshi Miyazaki</li> <li>Congratulatory remarks: Director General RRI Mr. HaeSung Park,</li> <li>Congratulatory remarks: President of KSAE Dr. Kyu-Seok Yeon</li> </ol>
10:30 - 12:00 (Keynote Speeches)	<ol style="list-style-type: none"> <li>International cooperation for improvement of paddy field ecosystem (Prof. Sun-Joo Kim, Konkuk Univ., Korea)</li> <li>Necessity and methods for participatory irrigation management (Prof. Masayoshi Satoh, Univ. of Tsukuba, Japan)</li> </ol>
12:00 - 13:30	Luncheon (Cafeteria)

Time	INWEPF-PAWEES
13:30 - 15:10 (Symposium Session 1)	<p data-bbox="384 259 1299 344"><b>Session I: Climate change and Food security with sustainable agriculture (Moderator: Mr. Dominado Pascua, Philippine)</b></p> <ol data-bbox="384 353 1401 963" style="list-style-type: none"> <li data-bbox="384 353 1401 439">1. Climate Change and Sustainable Agriculture (Zaliah B. Selamat, National Hydraulic Research Institute, Malaysia)</li> <li data-bbox="384 448 1401 577">2. Reformation of Paddy Irrigation System in Mountainous Area under Reconstruction of the Fiscal Economy and Falling Birthrate (Tanji Hajime, National Institute for Rural Engineering, Japan)</li> <li data-bbox="384 586 1401 672">3. Mainstreaming Climate Change Adaptation in Irrigated Agriculture for paddy farming in China (Xiaoling Wang, Ministry of Water resources, China)</li> <li data-bbox="384 680 1401 810">4. Changes of Agro-climatic Environment and Evaluation of Rice Yield under Climate Change Scenarios in Korea (Kyo-Moon Shim, National Academy of Agricultural Science, Korea)</li> <li data-bbox="384 819 1401 963">5. Stochastic risk assessment of the impact of climate change on annual typhoon rainfall under synthetic scenarios (Ke-sheng Chen, National Taiwan University, Taiwan)</li> </ol>
15:10 - 15:30	Coffee Break (Lobby)
15:30 - 17:30 (Parallel Session for INWEPF)	<p data-bbox="384 1032 1299 1117"><b>Session II-1: Sustainable irrigation techniques (Moderator : Dr. Kazumi Yamaoka, Japan)</b></p> <ol data-bbox="384 1126 1401 1980" style="list-style-type: none"> <li data-bbox="384 1126 1401 1256">1. Participatory Irrigation Management under the Public Organization System in Korea (TaiCheol Kim, ChungNam National University, Korea)</li> <li data-bbox="384 1265 1401 1350">2. Sustainable irrigation techniques (Va-soon Boonkird, Royal Irrigation Department, Thailand)</li> <li data-bbox="384 1359 1401 1489">3. Resource Conservation Technologies (RCTs) for Sustainable irrigated agriculture of Pakistan ( Asjad Imitaz Ali, Ministry of Water &amp; Power, Pakistan)</li> <li data-bbox="384 1498 1401 1628">4. Results of Urban wastewater Treatment Reusing for Agriculture :a Case Study in Lim Town, Bac Ninh Province, Vietnam (Nguyen Quang Trung &amp; Hoang Thu Thuy, Vietnam Academy for Water Resources, Vietnam)</li> <li data-bbox="384 1637 1401 1980">5. Sustainable water use and policies in the near East North Africa region-case of Egypt (Badawi A. Tantwai, Agricultural Research Center ,Egypt)  Irrigated agriculture status and prospect in Philippines (Dominado Pascua, Philippines National Committee of ICID , Philippine)</li> </ol>

Time	INWEPF-PAWEES
15:30 - 17:30 (Parallel Session for PAWEES)	<p>Session II-2: Sustainable Paddy Environment and irrigation techniques            (Moderator: Prof. Chun-Gyeong Yoon)</p> <ol style="list-style-type: none"> <li>1. An Inverse Modeling to Estimate Unsaturated Hydraulic Conductivity in Mixed Form Richards Equation (Tomoki Izumi, Masayuki Fujihara, Junichiro Takeuchi, Ehime University, Japan)</li> <li>2. Development of Wireless Field Automated Irrigation Control System (Satyato K. Saptomo and Budi. Setiawan, Bogor Agricultural University, Indonesia)</li> <li>3. Effects of Different Application Methods of Methane Fermentation Digested Liquid into the Paddy Plot on Soil Nitrogen and Rice Yield (Satoko Watanabe, Kyoto University, Japan)</li> <li>4. Estimation of Crop Virtual Water in Korea (Yoo, Seung-Hwan, Seoul National University, Korea)</li> <li>5. Carbon sequestration and nitrogen cycle on different cropping systems in Red River Delta (Mai Van Trinh et al., Institute for Agricultural Environment, Vietnam )</li> </ol>

## Day 2: Steering meeting (October 28, 2010)

Time	INWEPF	PAWEES
08:30 - 09:00	Accommodation to ICC by shuttle bus (Lake hill-Suite-Hana-Jeju ICC)	
09:00 - 10:15	Steering meeting I	9 <sup>th</sup> International Conference on Educational Accreditation System and APEC Engineers Project for Agricultural Engineering in Paddy Farming Regions and PAWEES Award Ceremony Award Ceremony Agenda I, II, III
10:30 - 11:30	Working group meetings (Group by group meeting)	
11:30 - 12:00	Poster session (Lobby)	
12:00 - 13:30	Luncheon (Cafeteria)	
13:30 - 15:15	Steering meeting II	Agenda IV, V Jeju Statement
15:30 - 17:30	Free time: two group for trip will be arranged with self-support.	Workshop on Material Cycling for Sustainable Agriculture

## PAWEES Agenda\*

9<sup>th</sup> International Conference on Educational Accreditation System and APEC

Engineers Project for Agricultural Engineering in Paddy Farming Regions

Date: October 28,2010

Venue: International Conference Center (ICC), Jeju, Korea

Time	Agenda	Chair person
09:00-10:15	PAWEES Award Ceremony Opening Remarks and Welcome Addresses: Tsuyoshi MIYAZAKI, President of PAWEES Award Ceremony: International Award Paper Award, Reviewer Award (Presenter: Prof. Tsuyoshi MIYAZAKI)	Seong Joon Kim
10:15-10:30	Coffee Break	
10:30-11:30	Agenda I- Perspective on Professional Accreditation of Engineering Education Japan : Toshihiro Morii Korea: Joongdae-Choi Taiwan:Prof. Yih-Chi Tan	Prof. Ke-Sheng Cheng (Taiwan)
	Agenda II – Present Situation of APEC Engineer Project and International Engineering Alliance Japan : Toshihiro Morii Taiwan: Dr. Chih-Hung Tan	Yutaka Matsuno (Japan)
	Agenda III-Progress and Issues on PWE Publication Japan : Prof. Yoshisuke Nakano Korea: Jin-Yong Choi Taiwan: Prof. Ke-Sheng Cheng	Yutaka Matsuno
11:30-12:00	Poster Presentation	
12:00-13:30	Lunch Break	

Time	Agenda	Chair person
13:30-14:10	Agenda IV –Publication of Textbook for Engineers in Paddy farming Region Japan : Prof. Yutaka Matsuno Korea : Prof. Jin-Soo Kim Taiwan: Dr. Chih-Hung Tan	Jin Soo Kim
	Agenda V- Confirmation and Amendment of PAWEES' Bylaw Japan: Prof. Yutaka Matsuno	Eikichi Shima
14:10-14:30	Coffee Break	
14:30-15:15	Jeju Statement Closing Remarks Taiwan:Ke-Sheng Chen	Joongdae Choi
15:15-15:30	Coffee Break	
15:30-17:30	Workshop on “Material cycle for sustainable agriculture”*	Nobumasa Hatcho

## **Workshop on Material Cycle for Sustainable Agriculture\***

**Date:** October 28, 2010

### **Program**

15 : 30 -15:40 Opening and Introduction

Prof. Hatcho: Organizer of the Workshop

15:40 -17:00 Presentations

1. Carbon organic in Vietnamese soils as affected by soil types, cropping systems and material cycling Prof. Pham Quang Ha, the Institute for Agricultural Environment, Vietnamese Academy of Agricultural Sciences, Vietnam
2. Efforts to control nonpoint source pollution loading in Korea, Prof. Chun G. Yoon, Department of Environmental Sciences, Konkuk University
3. Soil and Baby Corn Yield Improvement as Influenced by Organic Fertilizers. Prof. Arawan Shutsrirung. Faculty of Agriculture, Chiang Mai University, Thailand.
4. Carbon sequestration and nitrogen cycle on different cropping systems in Red River Delta. Dr. Mai Van Trinh, the Institute for Agricultural Environment, Vietnam
5. Modeling of Nitrogen Cycle by System Dynamics. Prof. Yutaka Matsuno, Faculty of Agriculture, Kinki University, Japan

17:00-17:25 Discussions

17:25-17:30 Concluding Remarks

## **Agenda for 7<sup>th</sup> INWEPF Steering Meeting**

Part 1: Steering meeting I (9:00 – 10:15), No. 203

Item 1: Election of chairpersons and adopt agenda

Chairpersons will make his opening remarks.

Item 2: Report of the INWEPF activities 2009-2010 (Activity Report\_Japan)

A reporting will be given on the activities by Japanese committee.

Item 3: Suggestion and discussion for direction for 2011(Discussion points\_Korea)

Introduction and suggestion on basic direction in the 2nd year of 2nd phase will be made by hosting committee. Questions for discussion are how to prepare INWEPF inputs to WWF 6 (2012) and how to induce the international organizations to INWEPF activities.

Part 2: 13:30-15:15 Steering meeting II

Item 4: Report from each working group (WG-1\_Malaysia, WG-2\_Korea, WG-3\_Japan)

Written activities reports are circulated by leading countries. Each working group leader will make a presentation in 5 minutes.

Item 5: Report of ICID (ICID meeting\_Indonesia)

A Report of ICID in Indonesia will be made by Indonesian committee to share key international activities.

Item 6: Report of Ministerial-meeting 2010 (Ministerial meeting\_Japan)

Results of APEC JAPAN 2010 Ministerial Meeting on Food Security in Niigata will be presented by Japanese committee.

Item 7: Discussion on strategic action plan for 2010-2011 (Strategic action plan 2010\_Korea)

Item 8: Review of TOR for working group (2010 TOR\_Korea)

Based on the discussion at the each working group, revision and discussion will be on spot.

Item 9: Approval of hosting country for 8th steering meeting

The INWEPF Malaysian committee had shown its great interest to host the 8<sup>th</sup> steering meeting in 2011.

Item 10: Other business



## Day-3 : Field trip (October 29, 2010)

Day 3 29<sup>th</sup> (Friday)

INWEPF 7<sup>th</sup> Meeting Field Trip

### Agenda of INWEPF Field Trip

	Dep.	Arrival	Time	Content	Venue and activities
①	08:30	09:20	50"	Move	Hotel → Field Bus 1: Suite(8:20) → Panpo Bus 2: Lakehill(8:10) → Hana(8:20) → Panpo
②	09:20	09:50	30"	Field 1	Panpo rural development project (Dumori county office) and cultural experience
③	09:50	10:00	10"	Move	Panpo → wastewater reuse project
④	10:00	10:30	30"	Field 2	Wastewater reuse for agriculture (Panpo sewage treatment facilities)
⑤	10:30	10:50	20"	Move	Panpo → Ongpo agriculture water development project
⑥	10:50	11:40	50"	Field 3	Ongpo agriculture water development project
⑦	11:40	12:10	30"	Move	Ongpo → Restaurant (in Jeju)
⑧	12:10	13:10	60"	Lunch	Kal Hotel (in Jeju)
⑨	13:10	14:10	60"	Move	Jeju → Sungsan sunrise peak
	14:10	15:10	60"	Cultural Visit	Sungsan sunrise peak
	15:10	16:10	60"	Move	Bus 1: Sungsan → Jeju Airport
	15:10	16:40	90"	Move	Bus 2: Sungsan → Hotel (in Jungmoon resort)

## Field 1: Panpo Rural Development Project

1. **Location** : Around Geumdeung-ri, Dumo-ri, Panpo-ri Hankyong-myeon Jeju

2. **Boundary** : 4 administrative districts

3. **Area** : 1,318ha (farm land:786ha, other:532ha)

4. **Household**: 950 (farming hh: 484, non-farming: 466), population(2,376)

### 5. Local resources

○ In project boundary : coastal road in Haechang-ri, landscape resources(sunset), Panpo orum(parasitic volcano)

○ Out of project boundary : Hanrim park, potted plant garden, Chakwi island, HyupJae beach

6. **Budget** : 6,870 million KRW

○ 1<sup>st</sup> stage ('06~'08) : 4,232 million KRW

- Designated as one of the best 20 projects launched in 2006

○ 2<sup>nd</sup> stage ('09~'10) : 2,638 million KRW

( '09:1,253 million KRW, '10:1,385 million KRW)

- Including prize of best project, 500 million KRW

### 7. Outline of the project

○ Main projects

- Completion: Coastal observatory, Gateball court, Community hall re-modeling

Fishing ground for nature experiences, Landscape improvement, Fitness,

Local food learning center, Senior citizen center re-modeling, Sunset Park

Haenyeo(female diver) workshop,

Mutmoodssamji Park(pond-vestpocketPark)

- On-going: Agricultural food processing facilities

○ Local resident capacity building

- Completion : 1<sup>st</sup> stage - project (train a village leader, development of local brand, development of rural experience program)

- On-going : 2<sup>nd</sup> stage - project (education/field visit, counseling, promotion)

### 8. Completion

○ '2007: MutmoodSsamji Park(pond-vestpocketPark), Coastal observatory, Fitness,

Landscape improvement(sunset), Gateball court

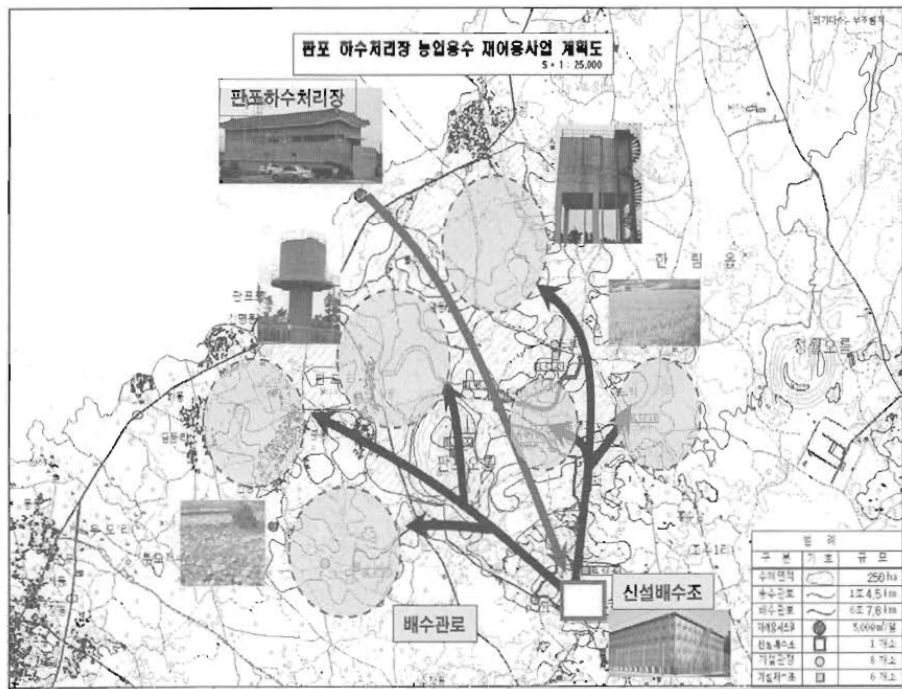
○ '2008: Fishing ground for nature experiences, Senior citizen center re-modeling, Sunset Park

○ '2009: Haenyeo(female diver) workshop, Local food learning center



Field 2: Pan-Po wastewater treatment project for reusing of agricultural water

- A need for project
  - Underground water is only an alternative resource for agricultural water in Jeju island
  
- Purposes
  - Protection of underground water
  - Mitigation of chronic fall drought
  - Prevention of coastal pollution



### Field 3: Ongpo Agricultural Water Development Project

- Purpose : Security of Agricultural Water Resource Development Improvement of Irrigation System
- Location : 11 Villages, Hallim-eup, Jeju-city, Jeju-province
- Irrigation Area : 600ha
- Beneficial Farming Families: 500
- Water Resources: Spring Water(30,000 ~ 50,000 m<sup>3</sup>/day)
- Major Crops : Cabbage(79%), Tangerrine(10%), Beer Barley(6%) Green Onion(3%), Upland Rice(2%)
  
- Major Works
  - Spring Water Pond: 6,000 m<sup>3</sup>
  - Regulating Reservoir: 2 places
    - Effective Capacity (Dongmyeong): 136,000 m<sup>3</sup>
    - " (Sangdai) : 500,000 m<sup>3</sup>
  - Pumping Station: 2 places (14,400 m<sup>3</sup>/day)
  - Intake Weir: 1 place
  - Water Conveyance Pipe Line: 5.22km
  - Water Supply Pipe Line: 30.40km

