

“The 8th Hydro Asia 2014”

Period

- Web-based Collaboration: Monday June 2 ~ Thursday July 17
- Main Event : Monday July 21 ~ Saturday July 26

Venue : K-water Academy (in Dea-jeon, Korea)

Host and Organizer : K-water

Participants : Professors and students concerned with water resources

Objectives

The objectives is Providing measures to resolve water issues in relation to climate change, the recent global issue, and the opportunity to share scientific techniques and knowledge regarding water control

Expenses

K-water will provide accommodations, meals, and operating expenses for field trip and cultural experience etc., but transportation fee to attend is at participant's own charge.

Theme for 2014

The main theme is “Climate Change and Scientific Water Control” focused on the case of Geum River basin in Korea

- SessionI(Hydraulics · Hydrology): Analysis of Basin and River Floods and Establishment of Measures
 - Conduct flood analysis using numerical analysis method (HEC-RAS, HEC-HMS, etc.), suggest optimum measures for flood control
 - Estimate flood volume in the basin (reservoir + upper stream) and analyze the riverside in the upper stream and embankment for damages
 - Establish flood damage reduction measures to minimize flood damage after on-the-spot survey
- SessionII (Water Quality): River Water Quality Analysis and Improvement Plan
 - Set water quality targets considering current water quality issues of an area and develop a plan to improve river water quality and achieve the quality target
 - Investigate the current water quality of target area and set the goal to achieve through the project.
 - Build mathematical model(CE-Qual-W2 etc.) to predict the water quality of the area for each Scenario.

- SessionIII (Water Policy): Perceiving Water as Economic Goods
 - Secure financial resources for the sustainability of water management
 - Investigate into the current investment / profit / operating expenses of water resource facilities in the basin studied
 - Develop ways to manage water resources more efficiently by governance

Detailed Implementation Plan

- Web based Collaboration : Monday June 2 ~ Friday July 11
More or less 5 teams for each session, each team consisting of 7~10 students, 1~2 professors, and working-level researcher (leader), carry out the project through the website given to each team within Hydro Asia homepage
- Face-to-Face Meeting : Monday July 21 ~ Saturday July 26
Supplement and improve the result of web-based collaboration through individual team activities and present the outcomes by team
Award the best participant and team based on the evaluation of the outcomes of team activities

*Sequence of face to face meeting

Date	Time	Contents	Place
Monday July 21	10:00~10:30	Opening Ceremony (Opening Address · Welcome Address, Introduction of VIP and Schedule Guide)	K-water Academy
	10:30~12:00	Exchange between Teams (Hosted by Outside Expert)	
	12:00~13:30	Lunch	
	13:30~15:00	Team Presentations (Introduction of Each Team and Result of Online Project)	
	15:00~18:00	Team Activity	
	18:00~20:00	Reception Dinner (for Professors and Working-Level Researchers)	Outside Restaurant
Tuesday July 22	09:00~12:00	Lecture	K-water Academy
	12:00~13:30	Lunch	
	13:30~18:00	Team Activity	
Wednesday July 23	09:00~12:00	Team Activity	
	12:00~13:30	Lunch	
	13:30~18:00	Team Activity	
Thursday July 24	09:00~18:00	Field Trip (Including Cultural Experience of Buyeo / Gongju)	Whole Area of Geum River
Friday July 25	09:00~12:00	Team Activity (Preparation for Final Presentation)	K-water Academy
	12:00~13:30	Lunch	
	14:30~16:30	Team Presentations (Final Outcome) and Q&A, Discussion	
	16:30~17:00	Evaluation of HydroAsia	
	17:00~18:00	Award and Closing Ceremony	
	18:00~20:00	Farewell Dinner (All Participants)	Cafeteria
Saturday July 26	09:00~20:00	Cultural Experience (Seoul City Tour)	Seoul