

Invitation to the

iRIC Seminar

17-20 October 2017, at National University of Colombia

As a part of Project for Strengthening Flood Risk Management

Capacity in Republic of Colombia, supported by JICA

Colombia, located in the Andean volcanic belt, takes great rivers, with populations and properties vulnerable to weather and natural disasters. During a La Nina in 2010 to 2011, for example, the massive torrential floods and landslides caused historic disasters suffering about 5 percent of the population.

Under the technical assistance of JICA, the Project for Strengthening Flood Risk Management Capacity in Republic of Colombia has started in 2015, aiming to transfer technologies to the relevant counterpart agencies such as UNGRD, IDEAM, CAR and local government. As a part of this project, a Seminar specializing in flood risk assessment, using a sophisticated river modelling software iRIC, is programmed to be held on 17-20 October at the National University of Colombia.

The International River Interface Cooperative (iRIC) is the free software for flow and river morphology, which provides an integrated river simulation environment. The iRIC simulates river dynamics from small stream to large scale rivers such as Colorado River and the Nile.

The iRIC Seminar will provide river engineers and flood risk management technicians with the best training opportunity of the rebellion method of river flow calculations, riverbed morphology, and flood analyses.

Brief program of the Seminar:

Day 1 Oct 17 (TUE)	9:00-12:00	Opening Seminar, Introduction of iRIC software,
	13:30-16:30	2D and 3D river flow modelling,
Day 2 Oct 18 (WED)	9:00-12:00	Inundation simulation,
	13:30-16:30	GIS process for import/export by iRIC,
Day 3 Oct 19 (THU)	9:00-12:00	Sediment and morphological deformation,
	13:30-16:30	case study of debris flow simulation,
Day 4 Oct 20 (FRI)	9:00-12:00	Application of iRIC in river and flood disaster risk management in Japan and Colombia,
	13:30-14:00	Closing session

In the Seminar, iRIC features will be introduced by Professor Dr. Yasuyuki Shimizu, who is the famous researcher in hydraulic science, awarded the IAHR M.Selim Yalin Lifetime Achievement Award in 2013. Dr. Shimizu will also give lectures on two and three dimensional river flow modelling and inundation simulation using iRIC and GIS processing. Dr. Hiroshi Takebayashi of Kyoto University will give lecture on sediment and morphological deformation, debris flow and some examples of river streams, followed by case studies applying iRIC into river management and flood disaster risk management by Dr. Hitoshi Baba of JICA and other lecturers.

iRIC provides a comprehensive, unified environment in which data that are necessary for river analysis solvers can be compiled, rivers can be simulated and analytical results can be visualized. The highly flexible iRIC interface allows to be imported, or you can use one of the iRIC solvers. Upon selecting the solver, iRIC selects functions suitable for the solver and prepares the optional simulation environment.

Tutorials and presentation materials will be finally given to all the participants to the Seminar. Please feel free to register your participation by communicating to Mr. Morita, the project leader: