



# IAHR 2017

## 37th IAHR WORLD CONGRESS 13-18 August, 2017 Kuala Lumpur, Malaysia

# ONE-DAY WORKSHOP ON RIVER ENGINEERING: HARD AND SOFT- ENGINEERING APPROACHES IN RIVER MANAGEMENT



Organised By



12 August 2017  
(Saturday)

Universiti Teknologi Malaysia,  
City Campus, Kuala Lumpur

River engineering can be broadly defined as the practical application of science to further the understanding of river's behaviour. This combines skills in sediment transport analysis, hydrology and hydraulics, fluvial geomorphology, and a strong practical background in the selection, design and impacts of river and watershed training structures and modifications. River engineering scope includes river training, channel design, flood control, water supply, navigation improvement, hydraulic structure design, hazard mitigation and environmental enhancement. Other than that, river engineering is also necessary to provide protection against floods and other river disasters.

The one day workshop will be conducted by a group of professionals from a multi-disciplinary engineering firm from Turkey, Dolsar Engineering Inc. Co. They are experienced

and have specialized in engineering and consultancy in the field of water and land resources and environment. The speakers have been involved in research and consultancy projects throughout their year at Dolsar Eng. Inc. Co.

Engineers, regulators, planners, designers and students who are involved in River Engineering Measure would benefit from attending this workshop. Participants will be informed on both the theoretical and practical application of this course.



### Main Speakers

#### Murat Şahin

Murat Şahin is a master's degree graduate in geotechnical engineering from Middle East Technical University. He is a Civil Engineer at Dolsar Engineering for over 9 years. He had experienced with Turkish Chamber of CMI Engineers, ANTRA Engineering Ltd. and HIDRO DIZAYN Engineering Inc before joining Dolsar.

In Dolsar, he is working on water resources planning, final and detail stages for geotechnical design for hydraulic and motorway projects. Besides that, he has 15 years experience in river basin master plan studies and feasibility reports, final and detail design of water resources projects.



#### Emre Köken

Emre Köken is a Design Engineer at Dolsar Engineering since 2012. He is a civil and environmental engineer graduate with master's degrees in hydraulic engineering and water resources from Dokuz Eylül University and University of Illinois. He had worked for Egeşis Environmental Technologies and University of Illinois before joining Dolsar Engineering.

In addition, he has been involved in river engineering research for almost 10 years. He also the author of 3 SCI articles. Emre Köken main research interest in hydrological extremes (floods & droughts), climate change and highly-accurate modeling applications.



### Program

TIME	DAY 1	RESPONSIBILITY
9:00 – 9:15	Welcome & Introduction to Day 1	MŞ & EK
9:15 – 10:15	Protection by Construction (Hard Engineer Option in River Management)	MŞ
10:15 – 10:30	<i>BREAK (coffee / tea)</i>	
10:30 – 11:30	Protection by Preservation (Soft Engineering Option in River Management)	EK
11:30 – 12:15	Group session	EK
	<i>BREAK (lunch)</i>	
13:30 – 15:00	Hard Engineering practices in river management: Mavaugat River	MŞ
15:00 – 16:00	Soft-Engineering practices in river management: Studies from the world	EK
	<i>BREAK (coffee / tea)</i>	
16:15 – 17:00	River management in the light of climate change	EK
17:00 – 17:40	Group Session	
17:40 – 18:00	Group work towards finale presentation	
18:00 – 18:30	Q & A session	

FEE:

INTERNATIONAL  
55USD

LOCAL  
RM200



Pre-Congress Event of the 37<sup>th</sup> IAHR World Congress  
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#### CONTACT

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