

TECHNICAL UNIVERSITY – SOFIA, BRANCH PLOVDIV  
**FOURTH NATIONAL CONFERENCE FOR STUDENTS, PH.D. STUDENTS AND  
YOUNG SCIENTISTS**

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**“Urban Water Expert” – introducing of contemporary teaching methods in the  
training of experts in the field of the modern urban water management**

**/Abstract/**

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Under the conditions of dynamic development of the urban agglomerations in the last few years, the challenges for the water managers are becoming larger and larger. The modern masterplanning turns into a vital necessity by the difficult working conditions.

The **Urban Water Expert (UWEX) – Project** was established to respond adequately the challenges. The main goal of the project is the transfer of innovation technologies in the field of the urban water management. The project is a partnership between two top level educational institutions – University of Architecture, Civil Engineering and Geodesy – Sofia (UACEG) and the Budapest University of Technology and Economics (BME) - and one regional private company - DHI Ltd. Enterprise.

The projects' duration is 24 months – it has begun on 15.10.2009 and will finish at 14.10.2011. The aim of the project is to train professors and students in the both participating countries – Bulgaria and Hungary. The trainers have to obtain extensive training, related to Hydroinformatics and Water Management planning, according to an interactive training methodology by DHI. The acquired knowledge should be shared with other colleagues and students, as well as with specialists at the local water utilities in order to expand their know-how in the field of urban water management.

The outcome of the project is an establishing of training centers equipped with computers, software MIKE URBAN. The subsequent continuous training program of the centre will result in a set of urban water specialists countrywide, who are able to apply the most updated urban water management methodologies and high level computer tools in their job. The impact of the introduction of a new knowledge in the Hungarian and Bulgarian urban water management will improve the quality of analysis and forecast consequences of water supply and wastewater systems and contribute their design.

**TWENTY FIRST INTERNATIONAL SCIENTIFIC CONFERENCE  
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Dedicated to the 50 years anniversary of the Scientific Union – Stara Zagora

**CONTEMPORARY TENDENCIES IN THE FIELD OF URBAN WATER  
MENAGEMENT**

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**Abstract**

In the conditions of global warming and growth of urban agglomerations, the requirements for an adequate utilization of the water resources are getting bigger and bigger. On the other hand, we have to be protected from the harmful influence of water, specially in the urban areas. By means of contemporary methods coming from the field of hydroinformatics, geographical information systems and hydrodynamic models, civil engineers have the opportunity to simulate working processes of water supply and sewage systems and to optimize their functionality. From these better solutions for the operation of systems, modern planning becomes a standard for bank funding all around the world.