

Seminars



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Environmental Effects of Dams An Introduction

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ABSTRACT

The lectures address the environmental impacts of small and large scale hydropower dams in some depth. The main purpose is to increase the awareness of possible effects and suggest relevant controlling and mitigation methods. The topics covered are the benefits and negatives impacts of dams, the EU water framework directive, the direct and indirect impacts, modelling challenges, a few case studies, and examples of successful restoration works. The lectures assume a basic understanding in fluid mechanics and hydrodynamics.

Prof. Dr. Bijan Dargahi

- Prof. Dr. Bijan Dargahi studied Civil Engineering at the Polytechnic of Central London and Hydraulic Engineering at the Institute of Hydraulic Engineering in Delft (Holland). He earned a PhD in Hydraulic Engineering from The Royal Institute of Technology, Division of Hydraulic Engineering in Stockholm on 1988.
- He is a Professor in Hydraulics at The Royal Inst. of Tech., Div. of Hydraulic Engineering in Stockholm.
- His main research areas cover: Large Scale Hydrodynamic and Transport Modelling in Lakes and Sea; Hydraulic structures; Local sediment transport & 3-dimensional boundary layer flows; River engineering (flow and sediment modelling); Turbulent boundary layer structure along a flat wall.