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Locating and Understanding the Hydraulics of Low-Head Dams

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Deadline for manuscript submissions:
closed (20 September 2023)

Message from the Guest Editors

Dear Colleagues,

Each year, more than 50 people drown at low-head dams, and more than 1000 have perished to date. A low-head dam (LHD) is a structure built across a stream, river, or canal that raises the water level upstream for the purpose of diversion. Water flows over the LHD on a continual basis from streambank to streambank. Although traversing a LHD does not appear to be dangerous due to the relatively small drop in the water surface, under certain conditions, a submerged hydraulic jump can form on the downstream side of the LHD. Once caught in such a current, there is no escape.

The purposes of this Special Issue are to (1) explore innovative ways to locate low-head dams, (2) understand the complex hydraulics associated with submerged hydraulic jumps, and (3) create a simple method to assess the potential danger at any LHD site.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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