



an Open Access Journal by MDPI

Modeling Positive Buoyant Material in Water for the Hydrogeological Risk Evaluation and Management

Guest Editors:

Dr. Gianluca Zitti

Department of Civil and Building Engineering, and Architecture, Università Politecnica delle Marche, Via Brecce Biance, 60131 Ancona, Italy

Prof. Dr. Hung Tao Shen

Department of Civil and Environmental Engineering, Clarkson University, Potsdam, NY 13699-5710, USA

Deadline for manuscript submissions: closed (5 November 2023)

Message from the Guest Editors

The interest in hydraulic risk is continuously increasing due to both the increased human exposure and the rise of extreme events. Many hydraulic hazard phenomena of recent interest involve positively buoyant materials, both natural and human-made. For example, human access to remote areas has increased exposure to the risk of tsunamis generated by natural positive buoyancy materials, such as pyroclastic flow, snow avalanche, or iceberg calving. In addition, flood damage, especially in urban areas, is mainly due to the transport and impact of floating materials of various types, from lumber to vehicles to garbage. Finally, plastic pollution, by now present in all oceans and all the larger rivers worldwide, often consists of positively buoyant debris. Thus, appropriate knowledge and modeling of the interaction of positive buoyant materials with water is crucial for the study of such phenomena and, consequently, for the assessment and management of their impact.









an Open Access Journal by MDPI

Editor-in-Chief

_

Prof. Dr. Charitha Pattiaratchi

Oceans Graduate School and The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia The *Journal of Marine Science and Engineering (JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Message from the Editor-in-Chief

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (*Civil and Structural Engineering*)

Contact Us

Journal of Marine Science and Engineering Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/jmse jmse@mdpi.com X@JMSE_MDPI