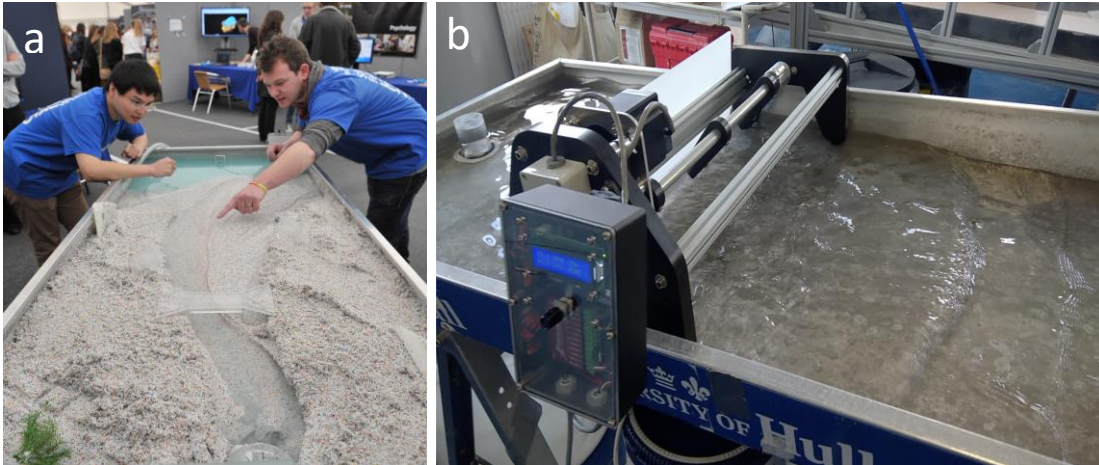


## BSG Outreach Grant Spring 2018: Making waves for Geomorphology

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Over the past seven years our team at Hull have been using our River in a Box (RiB) (Fig. 1a) as an outreach vehicle to communicate and promote geomorphology to school children and the public. The RiB is exhibited regularly at local (Hull Science Festival) and National Exhibitions (e.g. NERC Into-the-Blue - Manchester, and the Cheltenham Science Festival in conjunction with the BSG). Our outreach demonstrations have proved particularly useful to help inform the general public about flooding processes and flood risk.



**Fig. 1 a) University of Hull's "River-in-a-box" being demonstrated at the Hull Science Festival, b) New wavemaker device, part-funded by the BSG.**

Hull is highly susceptible to a range of flood risks (fluvial, pluvial and tidal), and is close to the rapidly eroding till cliffs of the Holderness coast. A natural extension of our existing outreach activities was to include an element of coastal geomorphological processes. In Spring 2018 we were successful in securing 0.4 funding (£1000) from the BSG towards a wavemaker device manufactured by Little River Research and Design in the US (Fig. 1b). Additional funding was provided from a Ferens Trust Award and from the Energy and Environment Institute at the University of Hull.

The wavemaker was the first one to be produced by Little River Research and Design (Fig 2), and was delivered late 2018. The device fits on to our existing RiB, and allows us to demonstrate coastal zone and estuarine processes (e.g. tidal delta interactions) in addition to river processes. The wavemaker has already been demonstrated at the Hull Freedom Festival in 2018, and we plan further demonstrations at National Science Festivals and continued use for local school visits in the Humber region.