

International Conference

MARIDV

Marine & River Dune Dynamics

4th-6th April 2016 • North Wales, UK

Book of Abstracts

Editors:

K. Van Landeghem, T. Garlan and J. Baas

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MARID V

Marine and River Dune Dynamics 2016

Caernarfon, North Wales, United Kingdom
4th - 6th April 2016

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Preface & Welcome

Welcome to North Wales, welcome to the fifth conference on Marine and River Dune Dynamics (MARIDV)!

Under the aegis of the North Sea Hydrographic Commission, a workshop on marine sand wave dynamics was organised by the French Naval Hydrographic and Oceanographic Office (SHOM) and the University of Lille 1 (France) back in 2000. This workshop was then succeeded by conferences covering marine and river dune dynamics in 2004 (University of Twente, Enschede, The Netherlands), in 2008 (University of Leeds, United Kingdom) and in 2013 (Royal Belgian Institute of Natural Sciences, Belgium). Now known by the acronym MARID, these conferences provide state-of-the-art overviews in fundamental and applied knowledge of marine and river dunes.

Dunes form as a result of turbulent shear generated by the interaction of a fluid flow with underlying mobile sediment. This interaction is complex, with dunes having varying dimensions, geometries and degrees of mobility. The processes governing dune dynamics have still not been unravelled adequately and the MARIDV delegates will outline progress across a wide number of disciplines, including hydrography, fluid dynamics, oceanography, earth sciences, sedimentology, laboratory experimentation, numerical modelling, and field quantification. The science programme will outline our current understanding of marine and river dune dynamics, and identify areas for future investigation and cross-disciplinary collaboration.

Marine and River Dune Dynamics V (MARIDV) is held in Caernarfon in beautiful North Wales, organised by the School of Ocean Sciences at Bangor University and the French Naval Hydrographic and Oceanographic Office (SHOM). The science conference takes place in Galeri Caernarfon on the 4th and 5th of April 2016. On the 6th April we host a field trip on the island of Anglesey.

We hope that MARIDV will lead to fruitful and productive discussions, which in turn should help guide future collaborations to further investigate marine and river dunes. The smaller, focussed format of the MARID conferences has proven to be ideally suited for such networking activities. Long may it continue!

Katrien Van Landeghem, Thierry Garlan & Jaco H. Baas.

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