



# Scour and Erosion: Proceedings of the 8th International Conference on Scour and Erosion (Oxford, UK, 12-15 September 2016)

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**Scour and Erosion: Proceedings of the 8th International Conference on Scour and Erosion (Oxford, UK, 12-15 September 2016)** From CRC Press

Scour and Erosion includes four keynote lectures from world leading researchers cutting across the themes of scour and erosion, together with 132 peer-reviewed papers from 34 countries, covering the principal themes of:

- internal erosion
- sediment transport
- grain scale to continuum scale
- advanced numerical modelling of scour and erosion
- terrestrial scour and erosion- river and estuarine erosion including scour around structures, and
- management of scour/erosion and sediment, including hazard management and sedimentation in dams and reservoirs.

Scour and Erosion is ideal for researchers and industry working at the forefront of scour and erosion, and has applications in both the freshwater and marine environments.

The 8th International Conference on Scour and Erosion (ICSE 2016, Oxford, UK, 12-15 September 2016) was organized by HR Wallingford under the guidance of the Technical Committee 213 for Scour and Erosion of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). This biennial conference draws together leading academics, scientists and engineers engaged in scour and erosion research to present and exchange their latest scientific findings. **Scour and Erosion**, together with the eight previous proceedings dating from 2002, present a solid collection of technical and scientific developments in scour and erosion research which have been established over the last 14 years.

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## **Editorial Review**

### About the Author

**Dr John Harris** is a technical director at HR Wallingford and is both a chartered engineer and chartered marine scientist with specialist skills in numerical hydrodynamic modelling, turbulence and sediment transport. John has over 20 years' experience in the application and development of turbulence models for modelling wave and wave-current boundary layer interaction in the coastal zone and over 21 years' experience in the application of numerical models for river, coastal and estuarine studies. He also has specialist knowledge of hydraulic, sediment transport and wave modelling techniques, and in particular scour and boundary layer processes and is one of the UK's authorities on marine scour. To date John has worked on various aspects of wind farm developments and has worked on around 80% of built or currently planned wind farms in the UK and is the co-author of several industry guidance documents including "Dynamics Of Scour Pits And Scour Protection" and the COWRIE "Modelling Best Practice Guide". In December 2004 he gave an invited lecture to the Danish Society of Hydraulic Engineers at the University Aalborg entitled "Offshore wind farms a UK perspective".

**Professor Richard Whitehouse** is a technical director at HR Wallingford with considerable experience in assessing and modelling the long-term evolution of estuaries and coasts. He has worked on large-scale physical modelling studies of currents, waves, sediment transport and scour at HR Wallingford since 1988, and is responsible for the Fast Flow Facility. His expertise is in coastal and seabed processes, wave/current interaction, sediment transport, scour and scour protection work for marine structures. He is currently Chair of TC213 of ISSMGE on Scour and Erosion and heads the Scour Research Programme at HR Wallingford on scour prediction and scour protection in the marine environment. He has experience of delivering regional coastal and seabed process studies combining expert assessments of field observations and computer modelling. Richard led the Defra/Environment Agency project 'Characterisation and prediction of large-scale, long-term change of coastal geomorphological behaviours' and is a Principal Investigator in the NERC BLUEcoast project on coastal processes and coastal recovery. He has knowledge of the key physical processes and responses of placing foundations in the marine environment and wrote the textbook 'Scour At Marine Structures'.

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