Francois has over 15 years of applied experience working on a range of consulting engineering projects in coastal engineering and the marine renewable energy sector. Francois has managed projects in the fields of coastal hazards, coastal structures, climate change adaptation, physical and numerical modelling, and coastal monitoring. Francois is also an expert in the field of marine renewables; having managed the installation of a 250 kW pilot device in Victoria and led several

large studies related to wave dynamics and wave energy conversion. Francois brings to WRL the combined attributes of a practical engineering background and academic analysis to resolve complex coastal and hydraulic problems.

François

structures, having modelled over 30 coastal and offshore structure projects in the past 10 years, and published many papers on coastal structure physical modelling methods and case studies. Francois

2D and 3D physical models for assessing rock and precast concrete armoured structures as well as the measurement of wave loading on rigid marine structures such as platforms, jetties and wharves.

Francois regularly undertakes desktop and numerical modelling investigations for coastal process, hazards and inundation studies. He has completed desktop based coastal process studies ranging from assessment of small property developments, through to regional coastal climate change vulnerability assessments. Francois Tasmania in the south to Darwin in the north, and includes several projects in the Australasia region.

Francois is an active member of the marine renewable energy and coastal engineering communities, regularly publishing work in technical conferences and journals. He is a member of PIANC and was also a committee member of the Australian Wave Energy Atlas project in 2015 and 2016. He is an Australian Standard committee member for EL-066 "Marine energy Wave, tidal and other water currents converters".

Qualifications

BSc (Mechanical Engineering), Ecole Nationale des Arts et Metiers, France

MEngSc (Hydraulics), Ecole Nationale des Arts et Metiers, France

PhD (Civil Engineering), University of Sydney

Expertise

Wave energy conversion
Physical model design, construction and testing
Renewable energy resource assessment
Numerical wave modelling

Summary of relevant experience

Coastal Processes and Numerical Modelling Studies 2008-2010: Wave-structure hydrodynamic modelling 2012: Seawall

Professional history

2017-Current: Principal Engineer, UNSW WRL
2015-2017: Senior Engineer, BPS Pty Ltd
2011-2015: Senior Project Engineer, UNSW WRL
2008-2011: Mechanical Engineer, BPS Pty Ltd
2005-2007: Project Engineer, Beicip Franlab, Paris
2004-2005: Reservoir Engineer, Total, Cameroon

Coastal processes and hazards Wave loading analysis Geo-spatial data analysis and planning Field investigations and data collection

2020: Lake Illawarra foreshore protection 2021: Newport SLSC overtopping protection, NSW 2021: Scour protection for offshore renewable project, TAS 2022: Clarence City Council Coast Hazards Adaptation, TAS