



Programme

YCSEC 2024

26-27 March 2024

Wallingford, UK

Sponsored by:



moffatt & nichol



Tuesday - Session 1 (11:45-12:45)

11:45	Morphodynamic evolution of Teignmouth Beach and Estuary, <i>Matea Zupicic</i>
12:00	Interactions between ebb-tidal delta configuration and nearshore wave processes, <i>Jie Gong</i>
12:15	Application of shore sediments accumulated in navigation channel for restoration of sandy beaches around Pärnu City, SW Estonia, <i>Rain Männikus</i>
12:30	Sediment connectivity in Cornwall: seabed roughness and carbonate content, <i>Wassim Seksaf</i>

Tuesday - Session 2 (14:00-15:00)

14:00	US tropical cyclone flood hazard, <i>Thomas Collings</i>
14:15	Development of a national coastal defence asset register, <i>Annabella Ormerod</i>
14:30	Employing idealized and realistic models to simulate morphological and hydrodynamic conditions in intermittent coastal inlets, <i>Mckenna Brophy</i>
14:45	Hydrodynamic efficiency of U-OWC WEC through geometric investigation: a design formulation approach, <i>Gunay Gazaloglu</i>

Wednesday - Session 3 (09:30-11:00)

09:30	Tidal stream energy resource assessment of the Pentland Firth: practical and accessible constraints, <i>Misha Patel</i>
09:45	Investigating coastal wave climate trends over the past 20 years, <i>Elizabeth Warwick-Champion</i>
10:00	Coastal monitoring: using drones to collect topography and bathymetry data, <i>Katie Corbett</i>
10:15	Cliff-hanger chronicles: rates and drivers of cliff erosion in England from over 20 Years of LiDAR observations, <i>Cristina Coker</i>
10:30	Damage to rock armour slopes: typical repairs, and techniques for parameterisation and measurement, <i>Seth Smith</i>

Wednesday - Session 4 (11:30-13:00)

11:30	Wave interaction of vertical walls fronted by shingle beaches, <i>Furkan Demir</i>
11:45	Extreme wave statistics using SWASH, <i>Umniya Al Khalili</i>
12:00	A new Monte-Carlo method to predict the exceedance probability of large random waves based on the underlying nonlinear dynamics, <i>Chong Huo</i>
12:15	Fluid-debris impact modelling with smoothed particle hydrodynamics for rapidly-varying free-surface flow, <i>Janwar Nurdin</i>
12:30	Experimental investigation of extreme wave statistics over coastal bathymetries, <i>Vasileios Bellos</i>
12:45	Enhancing tidal analysis and prediction using physics informed machine learning, <i>Thomas Monahan</i>

Posters

Seagrass as a nature based solution for coastal protection, *James Forrester*

Data informed model test design with machine learning - an example in nonlinear wave load on a vertical cylinder, *Tianning (Tim) Tang*

Wave-focusing induced by a submerged crescent-shaped plate in combination with headland breakwaters, *Logan Paugh*

The interaction of waves with suspended seaweeds: wave attenuation and in-canopy hydrodynamics, *Xinyi Zhang*

Balancing act: integrating coastal protection and biodiversity through beachwrack dunes, *Daniela Glueck*

Capturing complexity - the development of a novel framework of coastal change models to improve our understanding of urban barrier islands, *Abbie Nugent*

Chasing cobbles: a regional exploration of composite beach morphodynamics, *Alex Minnigin*

Numerical modelling of the cross-shore development for different nourishment location, *Xinyu Zhang*

Local wave loading on slender cylindrical structures, *Xinlu Lucy Mao*

Collars or rocks: a study to compare scour mitigation methods for offshore windfarms, *Maisy Bradbury*

Assessment of the beach response under the influence of a submerged breakwater using the cross-shore model COSMOS, *Mario Lopez*

Simulating the dispersal of marine plastics during extreme events, *Ed Roome*

A demonstration of the effects of sea level rise on submerged rock breakwaters, *Wilf Chun*

Conference program

Tuesday 26 March

Time	Session	Location
10:30–11:00	Registration	Fountain Conference Centre
11:00–11:45	Keynote – Prof. Nicoletta Leonardi	Fountain Conference Centre
11:45–12:45	Session 1	Fountain Conference Centre
12:45–14:00	Lunch and posters	The Manor House
14:00–15:00	Session 2	Fountain Conference Centre
15:00–17:00	Tours and posters	The Manor House
17:00	Coach to Oxford	To St Anne’s College, Oxford
19:00–22:00	Conference Dinner	George Street Social

Wednesday 27 March

Time	Session	Location
08:15	Coach pickup in Oxford	From St Anne’s College, Oxford
09:30–11:00	Session 3	Fountain Conference Centre
11:00–11:30	Coffee and posters	The Manor House
11:30–13:00	Session 4	Fountain Conference Centre
13:00–13:45	Lunch and posters	The Manor House
13:45–14:00	Group photo	The Manor House
14:00–14:30	Prizes and closing remarks	Fountain Conference Centre
14:45	Coach to Oxford	