

IMUM24 - Programme

Monday 28 October			
12:30	Registration and lunch		
14:00	Hanert & Deleersnijder	UCLouvain	Welcome message
14:20	Danilov	Alfred Wegener Institut	Analysis of discrete variance decay and spurious mixing
15:00	Logemann	Helmholtz Zentrum Hereon	The ICON Mesh Splitter
15:20	Coffee break		
15:50	De Le Court	UCLouvain	Assessing the performances of SLIM3D for multi-GPU simulations
16:10	Arpaia	CNR-ISMAR	An adaptive finite element solver for the shallow water equations with irregular bathymetry
16:30	Lermusiaux	MIT	Towards Coupled Nonhydrostatic-Hydrostatic Hybridizable Discontinuous Galerkin Method
16:50	Gourgue	Royal Belgian Institute of Natural Sciences	A convolution method to assess subgrid-scale interactions between flow and patchy vegetation in biogeomorphic models
17:10	Poster session and ice breaker		

Tuesday 29 October			
09:30	Lermusiaux	MIT	Deep Reinforcement Learning for Adaptive Mesh Refinement
10:10	Jordan	The University of Edinburgh	Adjoint-based optimisation for calibration of a Thetis shallow-water equation model for tidal array design
10:30	Scherpereel	UCLouvain	Assessing the impact of bridge construction and land reclamation on water residence time in Kuwait Bay
10:50	Coffee break		
11:20	Larsen	Aarhus University	Models of flow around windmill foundations and primary production in an Arctic fjord
11:40	Noujas	National Centre for Coastal Research (NCCR)	Morphological Changes of Beaches on the Southwest Coast of India Due to Climate Change
12:00	Bajo	CNR-ISMAR	Application of an unstructured model with an ensemble Kalman filter to make a coastal sea-level reanalysis dataset in the Mediterranean Sea
12:20	Dobbelaere	UCLouvain	Investigating the link between the Port of Miami dredging and the onset of the stony coral tissue loss disease epidemics
12:40	Lunch		
14:00	Nielsen	DHI	An unstructured finite volume scheme for Boussinesq-type equations
14:40	Delandmeter	Fugro	Seabed Mobility for Offshore Wind Farm Development
15:00	Breugem	IMDC NV	On high order interpolation for Semi-Lagrangian schemes on unstructured triangular meshes
15:20	Toorman	KULeuven	New subgrid-scale process models for sediment-laden flows solved with the finite-element modelling suite TELEMAC-MASCARET
15:40	Coffee break		
16:10	Thomas	Moody's	On modelling 50,000 years of storm surges around Australia
16:30	Vasarmidis	DEME	The Non-hydrostatic Model SWASH as an Engineering Tool for Wave Propagation in Coastal and Port Environments
16:50	Madani	DHI	Adaptive Meshing for Mitigating Numerical Dilution in Sediment Plume Modeling of Moving Dredgers
19:00	Conference dinner		

Wednesday 30 October			
09:30	Remacle	UCLouvain	Quad- and Hex-meshing using Gmsh
10:10	Konyssova	Alfred Wegener Institut	Changes in tide-driven transport in intertidal environments in response to rising sea levels. Case study of Sylt-Rømø Bight
10:30	Alaerts	UCLouvain	Simulating the hydrodynamics of the Danube River, Delta and Black Sea continuum
10:50	Coffee break		
11:20	Greenberg	Bedford Institute of Oceanography	The influence of vertical resolution on the circulation using a 3D barotropic model
11:40	Pelckmans	Uantwerpen	Modelling flood wave propagation in a small tropical estuary: the role of mangrove channel density
12:00	Closing message and lunch		

Posters			
P1	Khangaonkar	University of Washington	Eliminating smoothing and depth distortion need for management of sigma-pressure gradient errors in Salish Sea fjord setting using SCHISM and LSC2 Coordinate System
P2	Gürses	Alfred Wegener Institut	Ocean biogeochemistry in the coupled ocean-sea ice-biogeochemistry model FESOM2.1-REcoM3
P3	Paladio-Hernandez	CNR-ISMAR	Comparison of different vertical layer discretization for Saltwater Intrusion in the Po Delta River using SHYFEM
P4	Randresihaja	UCLouvain	Assessing the sensitivity of storm surge simulations to the atmospheric forcing resolution
P5	Van Eetvelt	UCLouvain	Preliminary assessment of the environmental impact of NEOM coastal developments on the Northern Red Sea coral reefs
P6	Versaen	UCLouvain	Multi-scale modelling of the water and sediment fluxes from the Nile Delta to the Suez Canal
P7	Johnson	Imperial College	Application of machine learning error estimation in goal-oriented mesh adaptation to tidal turbine array modeling