

Table of contents

Tuesday 22 September 2026	1
---------------------------------	---

4th COMMODORE Workshop on Advancing Ocean Modeling: Bridging Theory, Computation, Scales, and Applications | (smr 4237)

Tuesday 22 September 2026

- Kastler Lecture Hall (AGH) (09:00-18:30)

time	title	presenter
09:00	A linearly exact filter for the leapfrog time integration scheme	PAUL DELLAR
09:30	A WENO finite-volume scheme for the evolution of PV in isopycnal models	WENDA ZHANG
10:00	WENO reconstruction of Lie derivatives	GUILLAUME ROULLET
10:30	Coffee Break	
11:00	Brinkman Volume Penalization for Ice-Shelf-Ocean Interactions	ANTOINE NASSER
11:30	Homogenization of permeability for upscaling topography in ocean models	NICHOLAS KEVLAHAN
12:00	Evaluation of deep-learning architectures for satellite-derived bathymetry	AMINE BOUHADI
12:30	Lunch Break	
14:30	Inferring nonlinear balance in geophysical flows with neural networks	MANITA CHOUKSEY
15:00	Improving baroclinic instability using CNN in ocean models	FABRICIO LAPOLLI
15:30	A Deep-Learning-Assisted Parameterization of Internal-Tide-Driven Mixing	YANG WANG
16:00	Coffee Break	
16:30	Where do oceanic internal waves come from?	GIOVANNI DEMATTEIS
17:00	ML in Ocean Models: From Stable Param. to Conservative Emulators	ALISTAIR ADCROFT
17:30	Discussion session #2	
18:00	Discussion session #3	