

7th meeting of the Challenger Society Ocean Wind Waves Special Interest Group

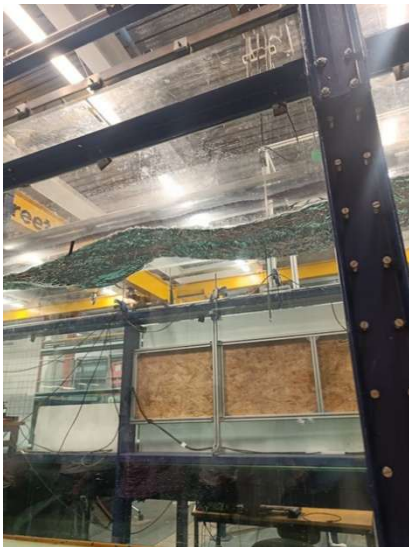
Tuesday 23rd June 2026 Imperial College, London

Paul Taylor, University of Western Australia	Australia is different: an oceanic wave climate for offshore wind
Jean Bidlot, ECMWF	Recent updates to ECMWF forecasting systems
Pau Luque, NCAS, University of Reading	Effect of Sea-Level and Wind-Wave Coupling on Simulations of Tropical Cyclones in Southeast Asia
Weimen (Stanley) Shen, Imperial College	Lagrangian particle tracking beneath second-order random waves: from passive particle to plastic particle
Zhanyuan Tian, Imperial College	Automated Optical Tracking and Characterization of Oceanic Wave Breaking
Ben Timmermans, NOC	Validation of the latest long term satellite observations from the ESA Sea State Climate Change Initiate (CCI) project
Ioannis Karpadakis, Imperial College	Imperial Hydrodynamics Laboratory: Recent advancements and opportunities
Thomas Adcock on behalf of Xinyu Liu, University of Oxford	Fast computation of bound components of free surface gravity waves
Jialun Chen, University of Oxford	Machine Learning Approximations of Nonlinear Four-Wave Interactions in Ocean Wave Models
Haiqi Fang, University of Oxford	Focusing of unidirectional and directionally spread wave groups on deep water
Richard Gibson, Offshore Consulting Group	A 12,000 year simulation of waves and winds in the North and Norwegian Seas
Adrian Callaghan, Imperial College	Using the ECMWF Spectral Wave Model to Estimate Air-Sea Gas Transfer
Charlotte Moss, University of Manchester	Extreme waves across abrupt depth transitions
Vanessa Katsardi, University of Thessaly	Formation and understanding of extreme sea surface water waves in deep and intermediate water depths



Interactive Laboratory Session at the Hydrodynamics Laboratory, including demonstrations and hands-on discussion around ongoing experimental facilities:

- Short-crested wave generation in the Deep Water Basin
- Wave transformation over coastal bathymetry in the Coastal Flume
- Wind-wave interaction experiments in the Double-Ended Wind-Wave Flume.



Attendees

Adrian Callaghan	Jialun Chen	* Samantha Zhang
* Alistair Hendry	Kai Simpson	* Sarah Hughes
* Anestidi Myrsini	* Katherine Hayford	Shukronakhon
* Bahareh Kamranzad	Katie Hodge	Najmiddinova
Ben Timmermans	* Kimberley Eastaugh	Suzana Ilic
Charlotte Moss	Laura Irvine	Thomas Dhoop
* Christina Tsiara	* Lee Swift	* Tobias Ferreira
Christopher Stokes	Lucy Bricheno	Tom Adcock
* Cyril Frelin	Marta Payo Payo	Umniya Al Khalili
Dan Pitt	* Myrsini Anestidi	Vanessa Katsardi
* Diana Vargas Ortega	Nayan Kumar	* Vasilis Bellos
* Duncan Wright	Pau Luque	WEIMIN (Stanley) Shen
Ed Roome	Paul Taylor	William Wright
Elizabeth Warwick-Champion	Piyali Chowdhury	Xiangbo Feng
* Emilie Janiga-Warren	* Prashant Pujari	* Xinyu Liu
George Pouliasis	* Qijie Li	* Yusuf Almalki
Haiqi Fang	* Quan Nguyen	Zehua Zhong
Ioannis Karmpadakis	* Riccardo Briganti	Zhanyuan Tian
Jean Bidlot	Richard Davies	
	Richard Gibson	

