

OIST-Keio Showcase talk Series 8					
Science meets Society: Twist, Flow, and Instability					
December 13th, 2025					
(Venue: Forum, 7th Floor, Building 14 / YIL [Yagami Innovation Laboratory], Keio University Yagami Campus)					
PROGRAM					
12:45	15	Welcome Coffee + Registration (Forum, 7th Floor, Building 14)			
OPENING					
13:00	5	Welcome remarks by Dr. Toshiharu Saiki, Vice President for Research, Keio University			
13:05	5	Opening remarks by Prof. Yutaka Kazoe, Faculty of Science and Technology, Keio University			
TALK SESSION 1 "Analysis and Design of Structures and Fluid Flows"					
13:10	20+5	Dr. Koji Fukagata	Professor, Keio	Applications of CNN autoencoders to fluid mechanics problems	Chair: Dr. Sugimoto
13:35	20+5	Dr. Eliot Fried	Professor, OIST	From underconstrained linkages to Möbius bands: Isometric, isoenergetic pathways of eversion	
14:00	15	Discussion			
14:15	5	Short Break			
TALK SESSION 2 "Multiphase Fluid Dynamics"					
14:20	20+5	Dr. Satoko Fujioka	Associate Professor, Keio	A novel design for multiphase flow reactors enabling continuous chemical processes	Chair: Dr. Fukagata
14:45	20+5	Dr. Dan Daniel	Assistant Professor, OIST	An Electrifying Farewell: How Evaporating Drops Charge and Explode	
15:10	15	Discussion			
15:25	5	Short Break			
TALK SESSION 3 "Geophysical Fluid Dynamics"					
15:30	20+5	Dr. Norihiko Sugimoto	Professor, Keio	Spontaneous gravity wave radiation in geophysical fluid	Chair: Dr. Fujioka
15:55	20+5	Dr. Amin Chabchoub	Associate Professor, OIST	The Hydrodynamics of Extreme Wave Events	
16:20	15	Discussion			
16:35	10	Transition from Building 14 to YIL			
POSTER SESSION with Refreshments					
16:45	45	Mr. Soratsugu Sakazume	Keio	PIV-based validation of friction drag reduction by streamwise traveling wave-like wall deformation in turbulent channel flow	
		Ms. Morie Koseki	OIST	The effects of wall flexibility in turbulent channel flow over a deformable wall	
		Mr. Nobuaki Ikeda	Keio	A pressure drop-based method for rheological characterization of food fluids: From methodology to device development	
		Dr. Simon Haward	OIST	Exploring multi-stability in three-dimensional viscoelastic flow around a free stagnation point	
		Dr. Masafumi Watanabe	Keio	Femtoliter-sample injection by highly-integrated nanofluidic valves and its application to nanochannel chromatography	
		Mr. Hanley Andrean	OIST	Towards new conceptual understanding of the decay of landfalling typhoons	
		Dr. Nobumasa Komori	Keio	Deep ocean inertia-gravity waves simulated in a global coupled atmosphere-ocean general circulation model	
CLOSING					
17:30	5	Closing remarks by Dr. Kenji Yasuoka, Dean of Graduate School of Science and Technology, Keio University			
17:35	100	Networking Reception			
*This program is subject to change without prior notice.					