General programme

The programme will be at Faculty of Mechanical Engineering (ME), Mekelweg 2, Delft.

	Day 1 - Apr	il 16; Tuesday	
08.30 - 09.00	Opening		Hall, ME
09.00 - 10.00	Session A, Chair: Gabriel Weymouth	Biologically-inspired flows	Lecture room A, ME
	· ·	Vortex shedding structures and shedding	,
		frequency on seal whiskers of varving	
09.00 - 09.15	Trevor Dunt	wavelength	
		Coverts-inspired flow control devices: 2D	
09.15 - 09.30	Ahmed K. Othman	vs 3D	
		Two dearee-of-freedom vortex induced	
		vibration of an undulatory seal whisker at	
09.30 - 09.45	Xudona Zhena	different angles of attack	
09 45 - 10 00	Nathan Widdup	Bio-Inspired Flight for Martian Exploration	ı
10.00 - 10.40	Coffee break		Hall. ME
10.40 - 12.30	Session B. Chair Keith Moored	Swimming and flying animals	Lecture room A. ME
		Propulsive performance and flow field	,
		structure around a two degree-of-freedor	n
10.40 - 11.00	Invited: Melissa Green	fish-like platform	
		Hydrodynamic Performance and Scaling	
		Laws of Wave-Induced Flapping Foil	
11 00 - 11 15	Raiat Mittal	Propulsion Systems	
		Wake-Body Interaction and Sustained	
		Oscillation of Elexible Cantilevers without	
11 15 - 11 30	Shavan Hevdari	Vortex Shedding	
		Effect of Phase Synchrony on the Self-	
		Origination of Two Swimmers in a Side-	
11 30 - 11 45	Amin Mivehchi	by-Side Arrangement	
11.00 11.10		Comparative analysis of dimensionality	
		reduction techniques for flapping wing	
11 45 - 12 00	Arvind Thirunavukkarasu	dynamics	
11.10 12.00		Bird formation flight: vortex dynamics	
12 00 - 12 15	Philippe Chatelain	flight control and energy savings	
12100 12110		Dynamics of self-propelling and thrust-	
12 15 - 12 30	Ratnesh K. Shukla	generating pitching foils	
12.30 - 13.30	Lunch	generating proming rollo	Hall, ME
13.30 - 15.00	Lab tour		TU Delft Campus
15 30 - 16 30	Delft walking tour to reception		Delft City Centre
16 30 - 18 30	Poster Session #1 and Recention		de Waag Delft
10100	Dinner (on vour own)		ao maag, bont

		Day 2 - April 17; Wednesday	
08.30 - 10.00	Session C, Chair Jerry Westerweel	Impulsive & rotational motions	Lecture room A, ME
		About the propulsive performance of a pitching	
08.30 - 08.45	Gauthier Bertrand	airfoil	
		Effect of combined leading- and trailing-edge	
		morphing on the wake dynamics of a flapping	
08.45 - 09.00	Chandan Bose	aerofoil	
		Scaling of aerodynamic loads on a rotating and	
09.00 - 09.15	Vrishank Raghav	pitching flat plate	
09.15 - 09.30	Dylan Caverly	Vortex development behind polygonal disks	
		Predicting drag force during non-constant	
09.30 - 09.45	Jesse Reijtenbagh	accelerations	
		Investigation on an impulsively or fast started	
		NACA0010 airfoil at Re = 5000 and at various	
09.45 - 10.00	Youri Marchal	angles of attack	
10.00 - 10.40	Coffee break		Hall, ME
10.40 - 12.30	Session D, Chair Rajat Mittal	Vortex structures	Lecture room A, ME
10.40 - 11.00	Invited: Hao Liu	Vortices and Forces in Insect Flight: A Review	
11.00 - 11.15	Mrudhula Baskaran	On vortex rings and Vogel exponents	
		Influence of passive flexibility on vortex ring	
11.15 - 11.30	Sarah Morris	generation	
		Topological feature identification of the leading	
11.30 - 11.45	Pedro Hernandez Gelado	edge vortex using machine learning	
11.45 - 12.00	Mr. Shivakumar Kandre	Evolution of Vortex Induced Thermal Plumes	
		3D vortex organization around a surface-	
12.00 - 12.15	Luuk Hendriksen	mounted cube by 3D-LPT	
		Persistence of large-scale vortex formation in	
12.15 - 12.30	Moira Barnes	shear-thinning pulsatile flows	
12.30 - 13.30	Lunch		Hall, ME
13.30 - 14.30	Bus to Keukenhof		
14.30 - 17.00	Keukenhof	only for registered attendees	Keukenhof, Lisse
17.00 - 18.00	Bus back to TU Delft campus		
	Dinner (on your own)		

D	ay 3 - April 18; Thursday	
08.30 - 10.00 Session E, Chair: Karen Mulleners	Wind turbines	Lecture room A, ME
	Tip vortex evolution under sheared inflow	
08.30 - 08.45Mano Grunwald	conditions in the context of wind turbines	
	The vortex dynamics in the wake of a wind	
08.45 - 09.00 Jonas Gutknecht	turbine controlled with the helix approach	
	Effects of Trailing-Edge Camber on Cyclorotor	
09.00 - 09.15Benjamin Irwin	Performance	
	Optimal kinematics and Vortex-foil interactions	
09.15 - 09.30 Eric Handy-Cardenas	of an oscillating hydrofoil tandem turbine array	
	Vortex dynamics in the wake of a periodically	
09.30 - 09.45Nathaniel Wei	surging turbine	
	Dynamic stall on airfoils with leading-edge	
09.45 - 10.00Pere Valls Badia	tubercles	
10.00 - 10.40Coffee break		Hall, ME
10.40 - 12.30 Session F, Chair Jeff Eldredge	Wakes and turbulence	Lecture room A, ME
	Fast three-dimensional stability and resolvent	
	analysis for external flows about spanwise	
10.40 - 11.00 Invited: Wei Hou	geometries	
	Estimation of rotor wake-wing interaction noise	
11.00 - 11.15Bharathram Ganapathisubramani	using Stereoscopic PIV	
	Effects of small motion perturbations on the	
	wake of a circular cylinder undergoing forced 2-	
11.15 - 11.30 Jason M. Dahl	DOF motions	
	Manipulating Vortex Development in a Laminar	
	Separation Bubble using Spanwise Modulated	
11.30 - 11.45John Kurelek	Disturbances	
	Model-Based Closed-Loop Control of Cylinder	
11.45 - 12.00Tea Vojkovic	Wake	
	On Low-Frequency Unsteadiness of Three-	
12.00 - 12.15Louis Cattafesta	Dimensional Turbulent Separation Bubbles	
	Interaction of Freestream Turbulence with a	
12.15 - 12.30Connor Toppings	Lifting Surface at Low Reynolds Numbers	
12.30 - 13.30Lunch		Hall, ME
15.00 - 15.30Bus to Scheveningen Beach		
15.30 - 17.00Free time		
17.00 - 18.30Poster Session #2		Restaurant Werelds, Scheveningen
18.00 - 18.30 Bus to Scheveningen Beach from Phoenixstraat		
18.30 - 21.00 Workshop Dinner @ the beach		Restaurant Werelds, Scheveningen
21.00 Bus to Delft		

	Day 4 - April 19; Friday	
08.30 - 10.00 Session G, Chair Barath	Gusts	Lecture room A, ME
	Deep reinforcement learning of pitch control in	
08.30 - 08.45 Jeff Eldredge	low Reynolds number gust interactions	
	Discrete gust encounters through the lens of	
08.45 - 09.00 Kunihiko Taira	persistent homology	
	Separation Control Using Plasma Actuation in	
09.00 - 09.15 Oksan Cetiner	Vortex Gust Encounters	
	Mitigating the Effect of Gust with Dynamic	
09.15 - 09.30 Samik Bhattacharya	Morphing	
	Unsteady aerodynamics of vortex gust	
09.30 - 09.45 Paras Vadher	generation and interaction with wing	
	Unsteady lift estimation using distributed	
09.45 - 10.00 Antonios Gementzopoulos	pressure sensing in the presence of uncertainty	,
10.00 - 10.40 Coffee break		Hall, ME
10.40 - 12.30 Session H, Chair: Abel-John Buchner	Fluid Structure Interactions	Lecture room A, ME
	Fast Fluid-Structure Interaction in Minimal	
10.40 - 11.00 Gabriel Weymouth	Domains with Far-Field Boundary Conditions	
	The influence of fluid elasticity on the vortices	
11.00 - 11.15 Yahya Modarres-Sadeghi	shed in the wake of an oscillating cylinder	
	Fluid-structure interactions on a 3D bluff body	
11.15 - 11.30 Antoine Myskiw	pendulum at high Reynolds number	
	Elastically-mounted cylinder with flexible splitter	
11.30 - 11.45 Chiranjeevi Sadana	plate: Wake vortices and structural response	
	On the flow around porous disks at an	
11.45 - 12.00 Doudou Huang	incidence	
	Numerical analysis of the free-stream flow	
12.00 - 12.15 Wim M. van Rees	through a porous barrier	
12.15 - 12.30 Conclude		Lecture room A, ME

Poster Session 1: Tuesday 16 April	
	Do bending rules in nature favor propulsion efficiency
Florian Bouard	?
	Energy-efficient soft robotic fish thrust enhancement
Leo Micklem	using time varying stiffness modulation
	Measuring how elastic deformation determines the
Ramiro Godoy-Diana	aerodynamic force production of a flapping wing
	Effect of spatio-temporal loading on the harvested
Rajanya Chatterjee	energy from a flexible flapper under VIV
	The Normalisation Conundrum for Unsteady Loads on
Jennifer Franck	Cross-Flow Turbines
	Insights from force partitioning on vortex dynamics
Alexander Cavanagh	around plunging swept wings
	Searching for the textbook of unsteady aerodynamic
Tye J. Dougherty	events using a random gust generator
	The time scales of dynamic stall at high Reynolds
Claudia Brunner	numbers
	Effect of non-linear angle of attack variation on
Sahar Rezapour	dynamic stall onset
	Effect of Inflow Turbulence on Stall Behavior of
Victoria Malarczyk	Moderately Thick Airfoils at High Reynolds number
Bingnan Zhou	A light-controlled vortex
Pierre Balty	A multiresolution Vortex Particle-Mesh method
	Falling flexible bodies simulated with splines in
Marin Lauber	minimal domains

Poste	r Session 2: Thursday 18 April
	Cavitation onset in counter-rotating vortices
Mariana Costa	from diverging disks
	Force reconstruction from PIV for an
Nicola Savelli	accelerating plate
	Jet creation at the tip of a submerged plate
Diane Komaroff	forced by waves
Lyke van Dalen	Vortex behaviour in an instationary rotating flow
	Data driven experimental investigation into
Dirk de Boer	wing-wake interaction
	Model-Based Closed-Loop Control of Cylinder
Tea Vojkovic	Wake
	Wind farm flow control: on the impact of the
	Helix control using a Vortex Particle-Mesh
Marion Coquelet	method
	Wake structure of optimally controlled vertical
Jovan Nedic	axis turbines
	Drag forces and unsteady wakes behind a poro-
Alexander Genrke	elastic membrane disk
	Wake interference effects on flapping dynamics
Rajeev Jaiman	of an elastic inverted foll
	Cylinder wake behavior based on conditional
Elizabeth Terres De Josuís	analyses based on large-scale conerent
Akhiloshwar Borra	Intrinsic phased based POD
	The tip vortex behaviour of a pitching wing with
Octavian Soare	
	Monsuring the wing best kinematics of free
Abal John Ruchnor	flying Andos acquisti
	nying Acues acgypti