



May 20, 2016 • Homewood Campus

Symposium Program

8:30am - 9:00am	BREAKFAST – OUTSIDE GILMAN HALL, ROOM # 50 WELCOME – Professor Charles Meneveau Johns Hopkins University
9:05am - 9:50am	Keynote Lecture: Professor Elias Balaras (George Washington University) Presents: “Flow control over a bluff body using dimples”
TECHNICAL SESSION I - Session Chair: Jacopo Biasetti	
9:50am - 10:10am	Cheng Li: (JHU/Advisor: Joseph Katz) <i>“Measurements of droplet size spectra resulting from breaking waves acting on an oil slick”</i>
10:10am - 10:30am	Ian Carr: (GWU/Advisor: Michael Plesniak) <i>“Flow over a surface mounted hemisphere in a pulsatile freestream”</i>
10:30am - 10:50am	Daniel Anderson: (UMD/Advisors: Russ Dickerson & Ross Salawitch) <i>“A tropical, tropospheric source of high ozone/low water structures”</i>
10:50am - 11:05am	COFFEE BREAK – OUTSIDE GILMAN HALL, ROOM # 50
TECHNICAL SESSION II - Session Chair: Daniel Willen	
11:05am - 11:25am	Chen Friedman: (GWU/Advisor Murray Snyder) <i>“Measurements of dynamic interface between ship and helicopter air wakes”</i>
11:25am - 11:45pm	David W. Murphy: (JHU/Advisor: Joseph Katz) <i>“Turbulent crude oil plumes in crossflow: effect of counter-rotating vortex pair structures on oil residence in plume”</i>
11:45pm - 12:05pm	Erin Lynch: (UMD/Advisors: Eugenia Kalnay, Kayo Ide, & Surja Sharma) <i>“Forecasting magnetic field variations in the high latitude ionosphere using ensemble transform kalmon filter in embedded space”</i>
12:05pm - 12:25pm	Ismail Hameduddin: (JHU/Advisor: Dennice Gayme) <i>“Scaling of energy amplification in the weak and strong elastic limits of viscoelastic shear flows”</i>
12:25pm - 12:45pm	Colin Parker: (GWU/Advisor: Megan Leftwich) <i>“The flow surrounding a vertical axis wind turbine”</i>
12:45pm - 1:40pm	LUNCH BREAK: - HODSON HALL, 2ND FLOOR LOBBY
TECHNICAL SESSION III - Session Chair: François Cadieux	
1:40pm - 2:00pm	Francis Lagor: (UMD/Advisor: Derek Paley) <i>“Estimation of a two-vortex flow field using an observability-guided lagrangian sensor”</i>
2:00pm - 2:20pm	Bin Zhang: (GWU/Advisor: Chunlei Liang) <i>“A novel parallel high-order computational framework for simulations of two and three dimensional flows around rotating/moving objects”</i>
2:20pm - 2:40pm	Eshwan Ramudu: (JHU/Advisor: Anand Gnanadesikan) <i>“Turbulent heat exchange between water and ice at an evolving ice-water interface”</i>
2:40pm - 3:00pm	Naeem Masnadi: (UMD/Advisor: James Duncan) <i>“On the viscous decay of gravity-capillary lumps”</i>
3:00pm - 3:15pm	AFTERNOON BREAK – OUTSIDE GILMAN HALL, ROOM # 50
TECHNICAL SESSION IV - Session Chair: Jin Lee	
3:15pm - 3:35pm	Xiang Yang: (JHU/Advisor: Charles Meneveau) <i>“High-order statistics and random additive model for turbulent boundary layers”</i>
3:35pm - 3:55pm	Abhilas Reddy Malipeddy: (GWU/Advisor: Kausik Sarkar) <i>“Computation of viscoelastic drop deformation”</i>
3:55pm - 4:15pm	Joseph Andrews: (UMD/Advisor: Siddhartha Das) <i>“Molecular simulations of water drop dynamics on graphene-coated solids”</i>
4:15pm - 4:35pm	Maylis Landeau: (JHU/Advisor: Peter Olson) <i>“Fragmentation and impacts in liquid-liquid systems: planet formation in the lab”</i>
4:35pm - 4:55pm	Simon Clement: (GWU/Advisor: Philippe Bardet) <i>“Index matched PIV in linearly stratified flow”</i>
4:55pm - 5:15pm	Daanish Maqbool: (UMD/Advisor Chris Cadou) <i>“An acoustic analysis of valveless pulsejet engines”</i>
5:15pm - 6:30pm	CLOSING RECEPTION – GILMAN HALL ATRIUM