



8:45am - 9:30am	BREAKFAST – Outside Hackerman Hall B-17
9:30am - 9:35am	WELCOME – Professor Tamer Zaki Johns Hopkins University – Hackerman Hall B-17
9:05am - 9:50am	Keynote Lecture: Prof. Megan Leftwich The George Washington University - Mechanical and Aerospace Engineering Presents: “Locomotion and transitions of a sea lion inspired amphibious system: Biologic to Robotic.”
TECHNICAL SESSION I - Session Chair: Diego Muriel Delgado	
10:10am - 10:30am	Chang Liu (UMD Adviser: Prof. James H. Duncan) <i>“The Effect of Surfactants on Droplet Generation in a Plunging Breaker.”</i>
10:30am - 10:50am	Ayush Saraswat (JHU Adviser: Prof. Joseph Katz) <i>“Reynolds stresses in tip leakage flows of axial compressors.”</i>
10:50am - 11:10am	COFFEE BREAK – Outside Hackerman Hall B-17
TECHNICAL SESSION II - Session Chair: Hanxun Yao	
11:10am - 11:30am	Anik Tarafder (GWU Adviser: Prof. Kausik Sarkar) <i>“Numerical simulation of a rigid body interacting with a viscoelastic soft material in a viscous fluid.”</i>
11:30am - 11:50pm	Mostafa Aghaeijouybari (JHU Advisers: Profs. Rajat Mittal & Charles Meneveau) <i>“Generalized Darcy-Forchheimer law for porous media flows including inertial redirection effects.”</i>
11:50pm - 12:10pm	Mohamed Mohsen Ahmed (UMD Adviser: Prof. Arnaud Trouve) <i>“Simulations of Wildland Fire Spread in Idealized Fuel Beds at Flame Scale.”</i>
12:10pm - 12:30pm	Eirini Florou (GWU Adviser: Prof. Philippe Bardet) <i>“Turbulence statistics in free surface turbulence.”</i>
12:30pm - 1:40pm	LUNCH BREAK – Outside Hackerman Hall B-17
TECHNICAL SESSION III - Session Chair: TBD	
1:40pm - 2:00pm	Kenta Kurosawa (UMD Adviser: Prof. Jonathan Poterjoy) <i>“Blending Gaussian and Non-Gaussian Data Assimilation for State Estimation with High-Dimensional Geophysical Models.”</i>
2:00pm - 2:20pm	Simon Toedtli (JHU Adviser: Prof. Tamer Zaki) <i>“Spectral analysis of the nonlinear terms in stratified wall turbulence.”</i>
2:20pm - 2:40pm	David Russell (UMD Adviser: Prof. Kayo Ide) <i>“A Data Assimilation System for Lake Erie Based on the Local Ensemble Transform Kalman Filter.”</i>
2:40pm - 3:00pm	Samvit Kumar (JHU Advisers: Profs. Gregory Eyink & Charles Meneveau) <i>“Vorticity cascade and turbulent drag in wall-bounded flows.”</i>
3:00pm - 3:20pm	Sara Yousoufi (GWU Adviser: Prof. Elias Balaras) <i>“Numerical Investigation of Subcooling Effects on Pool Boiling Heat Transfer.”</i>
3:20pm - 3:30pm	AFTERNOON BREAK – Outside Hackerman Hall B-17
TECHNICAL SESSION IV - Session Chair: TBD	
3:30pm - 3:50pm	Pompon Mputu Udipabu (UMD Adviser: Prof. Panagiotis Dimitrakopoulos) <i>“Dynamics of Multiple Capsules in a Square Microchannel.”</i>
3:50pm – 4:10pm	Shiyong Tan (JHU Adviser: Prof. Rui Ni) <i>“Dispersion, collision, and coalescence of bubbles in turbulence.”</i>
4:10pm - 4:30pm	Ibrahim Yildiran (GWU Adviser: Prof. Elias Balaras) <i>“Intracardiac Flow Analysis of the Right Ventricle in Pediatric Patients with Repaired Tetralogy of Fallot.”</i>
4:30pm - 4:50pm	Roozbeh H Azami (GWU Adviser: Prof. Kausik Sarkar) <i>“Time Evolution of Ambient Pressure Sensitivity of Microbubbles Subharmonic Response as a Function of Hydrostatic Pressure and the Filling Gas.”</i>
4:50pm - 6:00pm	CLOSING RECEPTION – Outside Hackerman Hall B-17