



ONR MURI Review Meeting ✦ Princeton, NJ

Wednesday, October, 24, 2012 ✦ Jellyfish Vehicle

Time	Content	Presenter
7:30 – 8:00	Registration and Breakfast	
8:00 – 8:10	Opening Remarks	Dr. Bob Brizzolara
8:10 – 8:20	Project Overview	Shashank Priya (VT)
8:20 – 8:35	Passive energy recapture aids propulsive advantage in jellyfish	Brad Gemmell (MBL)
8:35 – 8:50	Thrust generation for swimming by a hydromedusa	Jack Costello (PC)
8:50 – 9:05	Pressure variations during swimming by jellyfish	John Dabiri (Caltech)
9:05 – 9:20	Vorticity and propulsion by jellyfish	Sean Colin (RWU)
9:20 – 9:35	CFD: Rowing Mechanisms	Colin Stewart (VT)
9:35 – 9:50	Large deformation fluid-structure interaction modelling of jellyfish motion using IBM-FEM coupling	Santanu Mitra (VT)
9:50 – 10:15	Break	
10:15 – 10:40	Artificial Muscles and Cyanea Robojelly	Alex Villanueva (VT)
10:40 – 10:55	Energy Conversion Inspired by Mastigias	Tyler Michael (VT)
10:55 – 11:10	Jetting Robojelly	Kenny Marut (VT)
11:10 – 11:25	Model identification and control of the RoboJelly	Cassio Faria (VT)
11:25 – 11:40	Buoyancy engine and mesoglea	Keyur Joshi (VT)
11:40 – 11:55	Geomagnetic sensing, guidance, and target localization: Enabling Jellies	Junqi Gao (VT)
11:55 – 13:00	Lunch	
13:00 – 14:00	Poster Session	
14:05 – 14:25	Neural Networks	Rich Satterlie (UNCW)
14:25 – 14:45	Acoustic Projector, Muscles	Ray Baughman, Ali Aliev, & Marcio Lima (UTD)
14:45 – 15:05	Biomimetic Electrostatic Imaging	Henry Herman & Newton Truong (UCLA)
15:05 – 15:10	Meeting Wrap-up	