



ONR MURI Review Meeting ✕ Princeton, NJ

Tuesday, October 22, 2012 ✕ Underwater Batoid

Time	Content	Presenter
7:30 – 8:30	Registration and Breakfast	
8:30 – 8:40	Overview	Hilary Bart-Smith (UVA)
8:40 – 9:25	Morphometrics and ray kinematics: update	Frank Fish (WCU)
9:25 – 10:10	Ray skeletal architecture: biomechanical model, fluid-structure interaction and design of artificial wing skeleton	Scott Russo, Shawn Russell, (UVA)
10:10 – 10:30	Discussion	Frank Fish & Silvia Blemker discussion leaders
10:30 – 10:45	Break	
10:45 – 11:00	Numerical hydrodynamics: update	Hossein Haj-Hariri (UVA)
11:00 – 11:20	Investigation of effects of wing flexibility using prescribed motions in ANSYS/CFX	Mehdi Sadaat (UVA)
11:20 – 11:55	Modeling, Gait Analysis, and Control of Batoid Swimming	teD Iwasaki (UCLA)
11:55 – 12:15	Discussion	Hossein Haj-Hariri & teD Iwasaki discussion leaders
12:15 – 13:30	Lunch	
13:30 – 13:45	Attaining optimal efficiency by tuning structural resonance to wake resonance	Keith Moored (Princeton)
13:45 – 14:05	Scaling laws for flexible bio-inspired propulsion	Peter Dewey (Princeton)
14:05 – 14:30	Unsteady propulsion in ground effect	Dan Quinn, Keith Moored (Princeton)
14:30 – 14:55	Free-swimming platform design for scientific study: performance and comparison	Joe Zhu, Trevor Kemp (UVA)
14:55 – 15:10	Laser surface profiling	Trevor Kemp (UVA)
15:10 – 15:30	Discussion and feedback	Lex Smits & Hilary Bart-Smith discussion leaders