

## CBP Research Slam

### Five Minute Talks as of December 14 2016

Name	Affiliation	Talk Title or Topic
Bartlett, Lizz	IALS Biophysical Characterization Facility	Introduction to the Biophysical Characterization Facility at IALS
Brennan, Patricia	Biological Sciences/Mount Holyoke College	Studying genital morphology and genital interactions
Carter, Ashley	Physics/Amherst College	Looping of DNA by Protamine
Corradini, Maria	Food Science	Optical Approaches in Food Science (tentative)
Derr, Nathan	Biological Sciences, Smith	Using DNA origami to investigate the mechanisms of cytoskeletal motor proteins
Eyles, Steve	BMB	Mass spectrometry as a biophysical tool
Gershenson, Anne	BMB	Serpin folding from simulations to cells
Goldner, Lori	Physics/UMass	A novel platform for single-molecule imaging
Jiménez, Juan	Mechanical & Industrial Engineering, Umass	Effect of Fluid Flow on Cell Motility
Lee, Jungwoo	Chemical Engineering	Biophysical complexity in the hematopoietic bone marrow niche
Lee, Wei-Lih	Biology	Cytoskeleton
Lovley, Derek	Microbiology UMASS	Microbial nanowires
McClements, David	Food Science	Development of food-grade delivery systems
Perry, Sarah	UMass Chemical Engineering	Understanding Functional Biomaterials
Peterson, Mark	Mount Holyoke College	An unorthodox model for energy transfer in macromolecular complexes
Ross, Jennifer	Physics, UMass Amherst	Microtubule Severing Enzymes
Sun, Yubing	MIE	Biomechanics in development
You, Mingxu	Chemistry	DNA probes for membrane biophysical studies

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### Posters as of December 14 2016

Name	Affiliation	Poster Title or Topic
Hopkins, Jaime	Physics, UMass Amherst	On the pH of Attoliter Volume Aqueous Droplets
Pujari, Akshay	UMass - Department of Mechanical Engineering	Characterization of lymphatic fluid flow in-vivo in wild type mice
Tyler, Madison	MCB Program, Physics Department,, Umass	Regulation of Microtubule Severing by Katanin
Smith, Alexander	UMass Amherst	Stent Strut Geometry and Hemodynamics Affects Endothelial Cell Migration
Orbach, Dara	Biological Sciences/ Mount Holyoke College	Sexual Selection and Copulatory Fit Effects on Marine Mammal Genitalia
Nguyen, Duy	Department of Mechanical and Industrial Engineering	Stent Strut Geometry and Hemodynamics Affect Endothelial Cell Migration
Sun, Yun-Lu	Microbiology Department	Microbial Nanowires
Tang, Yuzhou	BMB/Umass Amherst	Characterization of membrane-interacting properties of the P. aeruginosa Type III Secretion Translocators in Membrane Bilayers
Vermeulen, Arjan	Biochemistry and Molecular Biology	Characterization of Type 3 Secretion translocation using bacteria and model membranes
Zehfroosh, Nina	UMass Physics	Mean Square Displacement Analysis of Cellulose Synthase Complexes in Living Plant Cells
Manafirad, Arash	Chemistry	Mechanical Manipulation of Membrane: How Do Tension and Curvature Affect Binding