



The NSF-CREST Center for Cellular and Biomolecular Machines uses an interdisciplinary approach combining physical, biological and engineering methods to understand and control the functioning of multi-scale assemblies of biomolecules and cells, and to design and develop novel bio-inspired functioning machines ranging from designer cells and tissue to diagnostic and therapeutic devices. The center also focuses on enhancing biophysics, biochemistry and bioengineering graduate and undergraduate education; leading STEM outreach activities in the Merced area for teachers, students, and the community; and broadening participation in STEM fields.

Hosted by the NSF-CREST
Center for Cellular and Biomolecular Machines
at the University of California, Merced

Science for Humanity
A series of scientific sessions for the community

Theresa Oehmke

"From the Pool to the Ocean: One Girl's Path to Becoming a Scientist"

Thursday, April 18, 2019
4:30 – 5:30 pm, SE2, 224

I am often asked about my academic path and what motivates me to keep doing what I'm doing. I will spend part of this talk discussing the influences and choices that got me to where I am. Then I'll dive in to my current research which uses dissolving sugar particles as a proxy for studying the exchange of soluble material to and from planktonic organisms. A fundamental understanding of how these organisms interact with their environment can be applied to the design of mini robots that sample concentration plumes in oceans and other bodies of water.

Theresa Oehmke is a 4th year PhD student in the Environmental Fluid Mechanics and Hydrology group in the Department of Civil and Environmental Engineering at UC Berkeley. Her research investigates the mysteries governing particle-fluid interactions in turbulence. Outside of the lab, Teri spends time at the pool playing water polo and swimming. She is dedicated to creating spaces for underrepresented groups and has focused on doing this through work as a committee member for the 32nd and 34th Annual Empowering Womxn of Color Conference hosted by UC Berkeley.



Theresa Oehmke

Coffee, tea and snacks provided

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