

Kendall Marie Werts

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Education	University of Oklahoma Candidate for a Masters of Science in Chemical Engineering. Courses include: Graduate Transport Phenomenon, Advanced Kinetics and Reaction Engineering, Advanced Thermodynamics, Colloids and Interface Science	Norman, OK <i>December, 2009</i>
	Massachusetts Institute of Technology Bachelor of Science in Materials Science and Engineering.	Cambridge, MA <i>June, 2007</i>
Experience	Quest Consultants <i>Internship.</i> Working with the company to form quantitative risk analysis for petroleum and chemical plants all over the world. Studying properties of different mixtures to quantitatively determine things like flame speed and size, and studying mechanical equipment to determine risk of failure.	Norman, OK <i>Current</i>
	University of Oklahoma Institute for Applied Surfactant Research <i>Graduate Assistantship.</i> Exploring the properties of biosurfactant mixtures and specifically which surfactant headgroups work best together. Determining changes in CMC, surface tension, and solubility.	Norman, OK <i>Current</i>
	Undergraduate Thesis: Biodegradable Hydrogel Microparticles <i>Undergraduate Research Project.</i> Designed and synthesized biodegradable hydrogel microparticles for vaccine protein delivery through a modification of a non-degradable particle synthesis found to evoke T cell responses in antigen delivery. Project resulted in particles that degraded better and evoked a higher T cell response than non-degradable.	Cambridge, MA <i>Spring '07</i>
	Product Design: Solar Cells with Concentrators <i>Product Design Project.</i> In a group of 4, designed and built an entire solar power harvester from the silicon cells to the electronics to the frame and concentrator lenses. Results were a working solar power system that finished first in the class for power output measured by current.	Cambridge, MA <i>Fall '06</i>
	Burton Conner Front Desk Captain <i>Supervisor.</i> Hired, trained, and supervised 30 people who were in charge of security and administrative duties for a dorm of 350 students.	Cambridge, MA <i>Spring-Summer '07</i>
Skills	DCA, DLS, HPLC, DSC, UV-Vis, SEM, TEM, XRD, AFM, Fluorimetry, contact angle, some mechanical testing, German, Windows, Microsoft Word, Excel, PowerPoint	
Interests and Honors	Chemical Engineering Graduate Student Society Treasurer, National Qualifier in Air Pistol and Sport Pistol, National Champion Varsity Pistol Team, Dormitory Council, Burton-Conner dormitory chairman, Square D National Merit Special Scholarship, and Certificate of Outstanding Academic Performance from the Oklahoma State Regents for Higher Education.	