

LAUREN JANSEN

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20 Fruit Street, Northhampton, MA, 01060

EDUCATION

B.S., Chemical Engineering, Oregon State University, 2012

Ph.D., Chemical Engineering, University of Massachusetts, Amherst, Graduation: June 2017

WORK EXPERIENCE

Institute of Cellular Engineering REU, University of Massachusetts, Summer 2011

Standardized a method for coating anionic silica particles with positively charged polymer as a model of a heterogeneous bacterial surface in the Polymer Science and Engineering Department.

Ashland Chemical Technical Sales Intern, Toledo, OR, Summer 2010

Optimized the performance of a chemical by analyzing wet-end tests taken on a linerboard paper machine.

Johnson Summer Internship, Oregon State University, Summer 2009

Designed a process to analyze *Manganese Peroxidase* degradation of inhibitors in biofuel production.

College of Engineering Ambassador, Oregon State University, 2009-2012

Represented the College of Engineering at OSU through outreach, alumni relations, and mentoring.

Engineering Problem Solving & Computations TA, Oregon State University, Winter 2010, 11

Mentored a class focused on elementary programming concepts using MATLAB software and a team-based design competition using the LEGO RCX microprocessor for data acquisition.

HONORS/ACTIVITIES

OSU Engineering EXPO Industry Advisory 1st Place “Board of Choice” Award, 2012

Eric N Muelenkamp Leadership Award (OSU Chemical Engineering Department), 2012

AIChe Oregon State University Student Chapter, Secretary (2009-2011), President (2011-2012)

Outstanding Student Chapter Award, 2009-2012

Oregon E.I.T., Spring 2012

Chi Omega Women’s Fraternity

Philanthropy Chair (2009), Social Director (2010), President (Fall 2010), Recruitment Chair (2011)

Oregon State University Panhellenic Woman of the Year, 2012

Summer Experience in Science and Engineering for Youth Camp (SESEY),

Mentor (2009), Counselor and Mentor (2012)

PUBLICATIONS

Schilke, Snider, Jansen, McGuire. “*Direct imaging of the surface distribution of immobilized cleavable polyethylene oxide-polybutadiene-polyethylene oxide triblock surfactants by atomic force microscopy*”. (2012) Surface and Interface Analysis. (early view).

Posters

Effect of rMnP on Inhibitors to Yeast Growth

AIChe Pacific Northwest Regional Conference Paper Presentation, Spring 2010

Oregon State University Highlight of Student Research Poster Fair, Spring 2010

Adhesion of Functional Polymers onto Silica Particles to Model the Behavior of Particle,

University of Massachusetts REU Poster Fair, Summer 2011

Microscale Determination of CAC for PEO-PBD-PEO Triblock Surfactants

Oregon State University Engineering EXPO, Spring 2012

SKILLS

MatLab, HYSYS, StatGraphics, experimental lab procedures/equipment, microbiology, biochemistry, engineering economics, bioreactors, bio-product design, cellular engineering