

Willamette University



Science Collaborative
Research Program

Student Presentations

Friday 9/17/2010 – Ford 122

**Science Collaborative Research Program
Research Conference
Friday 09-17-2010**

- 2:00 – 2:15** **Stephanie Skelly.** Hypomorphic Mutations in the p50 Subunit of Dynactin Reveal a Novel Role for Cytoplasmic Dynein in *Drosophila* Spermatogenesis. (*Advisor: Professor Jason Duncan, Biology*)
- 2:15 – 2:30** **Estella Yee.** Synthesis of a disubstituted malonate for application to an asymmetric oxacycle synthesis. (*Advisor: Professor Andrew Duncan, Chemistry*)
- 2:30 – 2:45** **Hannah C. Harper.** Stereocontrolled Organocatalytic Synthesis of Oxacycles. *Advisor: Professor Andrew Duncan, Chemistry*)
- 2:45 – 3:05** **Sarah Vilardi and Adrienne McCarthy.** Asymmetric organocatalytic synthesis of *N*-Protected morpholine derivatives. (*Advisor: Professor Andrew Duncan, Chemistry*)
- 3:05 – 3:20** **Colin O’Leary.** Synthesis of 1,3-dithiane derivatives and the optimization of a stereocontrolled organocatalytic oxacyclization. (*Advisor: Professor Andrew Duncan, Chemistry*)
- 3:20 – 3:40** **Sam Nhim and Kristen Norton.** Putting a twist on absorption spectroscopy of rubidium. (*Advisor: Professor Michaela Kleinert, Physics*)
- 3:40 – 4:00** **Jared Green and Jesse Sant.** Building an Optical Trap for Single Molecule Studies of Myosins. (*Advisor: Professor David Altman, Physics*)
- 4:00 – 4:15 COFFEE BREAK AND GROUP PHOTO**
- 4:15 – 4:30** **Wesley Smith.** TopoGrabber: A Tool to Facilitate Utilizing High Resolution Topography in Weather Forecasting. (*Advisor: Professor Haiyan Cheng, Computer Science*)
- 4:30 – 4:45** **Jose Alvarado.** Uncertainty Quantification with a Non-Probabilistic Approach. (*Advisor: Professor Haiyan Cheng, Computer Science*)
- 4:45 – 5:05** **Erin M. McEvoy and Sarah Sonnenfeld.** Stress meets love; corticosterone regulates vasotocin signaling - *An imaging study.* (*Advisor: Professor Emma Coddington, Biology*)
- 5:05 – 5:20** **Theresa Edwards.** Demography study in *Yucca brevifolia* using microsatellites. (*Advisor: Professor Christopher Smith, Biology*)
- 5:20 – 5:35** **Kate Gadek.** Increased seed count of hybrid Joshua trees in Tikaboo Valley, NV. (*Advisor: Professor Christopher Smith, Biology*)
- 5:35 – 5:55** **Shealyn Friedrich and Matthew Polzin.** Individual lateralization and the development prey handling skills among terns. (*Advisor: Professor David Craig, Biology*)
- 5:55 – 6:10** **Emma Hill.** Is Stathmin a Positive or Negative Regulator of Microtubule Dynamics? (*Advisor: Professor Jason Duncan, Biology*)