

Interdisciplinary

STUDENT RESEARCH SYMPOSIUM

Sponsored by Merck/AAAS

Friday, October 26, 2007

2:00-5:00 PM

**Featuring Ballona Wetlands
Research**



Keynote Address at 2:00 PM, Seaver 200

Dr. Frances Solomon

University of British Columbia

Puget Sound Urban Bay Action Program

Poster Session & Reception

3:00-5:00 PM, Seaver Second Floor

Refreshments will be served!

Interdisciplinary research projects sponsored by Merck/AAAS and NSF-UBM grants involved 5 departments: Biology, Chemistry & Biochemistry, Civil Engineering & Environmental Science, Mathematics, Natural Science

Developing *Salicornia virginica* as a Bio-monitor for Heavy Metals in the Ballona Wetlands

James R. Holmquist, (Dr. Philippa Drennan, Dr. James Landry)

The Functional Genomics of Adaptation to Heavy Metals in Wild Mustard Plants

Anita Aynehchi, April Garcia, Jonathan Park (Dr. Gary Kuleck, Dr. Ben Fitzpatrick)

Biomagnification of Wetland Contaminants in Garden Spiders

Jaclyn Torres and Charisse Sy (Dr. James Landry, Dr. Jeremy McCallum, Dr. Martin Ramirez)

Orb Web Geometry and Heavy Metal Bioaccumulation in Garden Spiders (*Argiope* sp.)

Aimee Cruz, Farah Srichandra, Bethy Woubeshet (Dr. Martin Ramirez, Dr. Ben Fitzpatrick)

Freely Dissolved Concentrations of Selected PCBs, PAHs, and Chlorinated Pesticides in Ballona Wetland and Creek

Anh P. Nguyen (Dr. Rachel G. Adams)

Survey of Microorganisms in the Ballona Wetlands

Arthur Blikian (Dr. Gary Kuleck, Dr. John Dorsey)

Identifying Soil Bacteria and Biochemical Pathways in the Ballona Wetlands for the Bioremediation of Organic Pollutants

Wesley T. Citti and Jeffrey D. McGowan (Dr. Kam Dahlquist, Dr. Carl Urbinati)

Mathematical Modeling and Biological Analysis of the Transcriptional Response to Cold Shock in *Saccharomyces cerevisiae*

Kevin Entzminger, Stephanie Kuelbs, Kenny Rodriguez (Dr. Kam Dahlquist, Dr. Ben Fitzpatrick)