

83<sup>rd</sup> Annual Pacific Northwest Section

## ASEE Conference

March 7-8, 2013  
Highline Community College

Conference Schedule



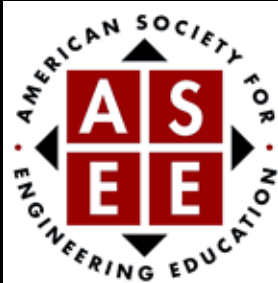
### Thursday Evening, March 7, 2013 - Highline MaST Center at Redondo Beach

<http://mast.highline.edu/>

6:00 – 7:00	Hors d'oeuvres from Salty's and Social Hour
7:00 – 8:00	Engineering a Grey Whale Skeleton and Aquarium Tour
8:00 – 9:00	ASEE PNW Section Business Meeting

### Friday, March 8, 2013 - Highline Community College Main Campus

7:30 – 8:00	Sign In and Registration (Building 2)	
8:00 – 8:15	Welcome and Kickoff (Building 2)	
8:15 – 9:15	Keynote Address: "Student Expectations Around Technology in the Classroom," <b>Sue Frantz</b>	
9:15 – 10:15	Keynote Address: "Applied Numerical Methods Online: A reflection on four years of evolution in attitude and pedagogy," <b>Eric Davishahl</b>	
10:15 – 10:30	Social Break	
10:30 – 11:30	Keynote Address: "Using Technology to Promote Engagement, Conceptual Understanding, and Knowledge Integration," <b>Milo Koretsky</b>	
11:30 – 12:15	Instructor Discussion Panel: Engineering Education in a Digital Age (Agnieszka) <ul style="list-style-type: none"> <li>• Dick Zollars, WSU – Clickers, Flipped Classroom and Studio-Based Learning</li> <li>• Blake Hannaford, UW Seattle – Flipped Classroom</li> <li>• Jie Sheng, UW Tacoma – Canvas Online Teaching System</li> <li>• Melani Plett, Seattle Pacific University – Recording Classroom Sessions</li> </ul>	
12:15 – 1:15	Lunch break	
1:15 – 1:30	PNW Section Announcement and Awards	
1:30 – 2:30	Session 1a - Bldg 2 (Rich) <b>Technology in the Classroom</b>	Session 1b - Bldg 16, rm 105 (Steve) <b>Professional Skills</b>
2:30 – 2:45	Social Break	
2:45 – 3:45	Session 2a - Bldg 2 (Agnieszka) <b>Classroom Tools</b>	Session 2b - Bldg 16, rm 105 (Dick) <b>Teaming</b>
3:45 – 4:00	Social Break	
4:00 – 5:15	Session 3a - Bldg 2 (Steve) <b>Design</b>	Session 3b - Bldg 16, rm 105 (Agnieszka) <b>Pedagogy</b>
5:15 – 5:45	Social Break	
5:45 – 7:30	Dinner (Building 8) Dinner Speaker: "Visual and Auditory Representations of Engineering Design Processes: Applications in Research, Teaching, Learning, and Practice," <b>Cynthia Atman</b>	



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### Session Details



<p><b>Session 1a – Technology in the Classroom</b> Building 2 – Friday, 1:30 – 2:30</p>	<p><b>Session 1b – Professional Skills</b> Building 16, room 105 – Friday, 1:30 – 2:30</p>
<p>Using Lecture Capture in the Engineering Classroom <i>Rebecca Sliger, Tacoma Comm. College</i></p> <p>Strategies of Online Homework <i>Rich Bankhead, Highline Comm. College</i></p> <p>Automated Generation of Randomizable Problem Sets and Detailed Solutions – Engineering Statics <i>Ken Fyfe, MacEwan University</i> <i>Jeff Davis, MacEwan University</i></p>	<p>Examining the Sources of Impacts to Engineering Undergraduate Students’ Perceived Self-Efficacy for the Communication of Professional Practice. <i>Kathryn Moberand, University of Washington</i></p> <p>Ethics of Engineering in an MET Capstone Course <i>Craig Johnson, Central Washington University</i></p> <p>University of Idaho’s College of Engineering Hellos Walk Program: Increasing Underrepresented Student Retention <i>Denise Bauer, University of Idaho</i></p>
<p><b>Session 2a – Classroom Tools</b> Building 2 – Friday, 2:45 – 3:45</p>	<p><b>Session 2b – Teaming</b> Building 16, room 105– Friday, 2:45 – 3:45</p>
<p>In Class Student Polling Using Smart Phone <i>Sue Frantz, Highline Comm. College</i></p> <p>The Inverted Classroom <i>Greg Mason, Seattle University</i></p> <p>Great New Tools, Same Old Challenges <i>Jeffery Newcomer, Western Wash. Univ.</i></p>	<p>Teaching Teamwork Well: A Call for Collaborative Research in the Pacific Northwest <i>Steve Zemke, Gonzaga University</i></p> <p>Using Case Study as an Effective Learning Tool for Achieving ABET Student Outcome d <i>Wayne Lu, University of Portland</i></p> <p>Using Student Teams for Education in Core Content <i>Adam Arabian, Seattle Pacific University</i> <i>Melani Plett, Seattle Pacific University</i></p>
<p><b>Session 3a – Design</b> Building 2 – Friday, 4:00 – 5:15</p>	<p><b>Session 3b – Pedagogy</b> Building 16, room 105– Friday, 4:00 – 5:15</p>
<p>Exploring a Post Capstone Design Experience <i>Edwin Odom, University of Idaho</i></p> <p>Lab Equipment Design Incorporating Safety for the Demonstration of Phase Changes in Steel Wire <i>Brian Harris, Oregon Inst. of Tech., Seattle</i></p> <p>Experience with Integrating Freshman Engineering Students with Upper Division Engineering Projects <i>Don Riley, Walla Walla University</i></p> <p>Understanding Relational Development Inside the Context of Design Projects – Templates for Performance-Oriented Success <i>Charles Pezeshki, Wash. State Univ.</i></p>	<p>Integrating Teaching and Research...Not Just for Superhero Faculty! <i>Patricia Pyke, Boise State University</i></p> <p>Symmetrical Components Implementation to PowerX, An Educational Software Tool <i>Thomas Walsh, Eastern Wash. University</i></p> <p>Lessons Learned in the Development and Deployment of Four Activity-Based Transportation Courses <i>Michael Kyte, University of Idaho</i></p> <p>Teaching Geothermal Energy in an Undergraduate Renewable Energy Engineering (REE) Program <i>James Zipay, Oregon Inst. of Technology</i></p>