



82<sup>nd</sup> Annual Pacific Northwest Section

## ASEE Conference

March 15-17, 2012  
University of Portland – Shiley Hall



### Program

Thursday, March 15			
5:00 – 8:00	Registration – Shiley 3rd floor		
5:00 – 6:00	Reception – Shiley 3rd floor		
6:00 – 7:20	Pre-conference workshop – Shiley 301 <ul style="list-style-type: none"> <li>• “A Team Approach to Developing Active Learning Curriculum,” Mike Kyte, Steve Beyerlein, Dan Cordon, Univ. of Idaho; Kelly Pitera, Univ. of Wash.; Ming Lee Univ. of Alaska</li> </ul>		
7:30 – 9:00	Business meeting – Shiley 301		
Friday, March 16			
7:30 – 8:00	Registration and coffee / pastry – Shiley 3rd floor		
8:00 – 10:00	Plenary session – Shiley 319 <ul style="list-style-type: none"> <li>• Welcome, Dr. Sharon Jones, Dean – Donald P. Shiley School of Engineering</li> <li>• Keynote address, “Facilitating Student Success,” Dr. Raymond Landis, Dean Emeritus of Engineering, Computer Science, and Technology, California State Univ., Los Angeles</li> </ul>		
10:00 – 10:20	Social break – Shiley 3rd floor		
10:20 – 12:00	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Session 1A – Shiley 319 <i>Outreach and retention</i> – Richard Bankhead</td> <td style="width: 50%;">Session 1B – Shiley 301 <i>Freshman experiences</i> – Steve Beyerlein</td> </tr> </table>	Session 1A – Shiley 319 <i>Outreach and retention</i> – Richard Bankhead	Session 1B – Shiley 301 <i>Freshman experiences</i> – Steve Beyerlein
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12:00 – 1:00	Lunch – Bauccio Commons		
1:00 – 2:00	<ul style="list-style-type: none"> <li>• Presentation – Bauccio Commons, “Graduate Attributes Assessment – 0 to 60 in Two Years Flat,” Dr. Robert Driver, Univ. of Alberta</li> <li>• Year of Dialogue discussion – Marilyn Dyrud, Oregon Institute of Technology</li> </ul>		
2:15 – 3:55	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Session 2A – Shiley 319 <i>Dr. Raymond Landis Workshop</i></td> <td style="width: 50%;">Session 2B – Shiley 301 <i>Capstone and project-based classes</i> – Steve Beyerlein</td> </tr> </table>	Session 2A – Shiley 319 <i>Dr. Raymond Landis Workshop</i>	Session 2B – Shiley 301 <i>Capstone and project-based classes</i> – Steve Beyerlein
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3:55 – 4:10	Social break – Shiley 3rd floor		
4:10 – 5:30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Session 3A – Shiley 319 <i>Activity design</i> – Dan Cordon</td> <td style="width: 50%;">Session 3B – Shiley 301 <i>Program and course development</i> – Marilyn Dyrud</td> </tr> </table>	Session 3A – Shiley 319 <i>Activity design</i> – Dan Cordon	Session 3B – Shiley 301 <i>Program and course development</i> – Marilyn Dyrud
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5:45 – 6:30	Dinner reception – Bauccio Commons		
6:30 – 8:15	Dinner – Bauccio Commons <ul style="list-style-type: none"> <li>• Presentation, “Improving student success in engineering through enhancing 3-D spatial skills,” Dr. Sheryl Sorby, Ohio State University</li> </ul>		
Saturday, March 17			
8:00 – 8:30	Coffee – Shiley 3rd floor		
8:30 – 11:00	Workshop – Shiley 319: “Education-related Proposals for the National Science Foundation with a focus on the Noyce Program,” Dr. Sheryl A. Sorby, Ohio State Univ.		
8:30 – 11:30	Workshop – Shiley 249: Joint ASEE/IEEE Education Chapter Workshop on The Diligent Electronics Explorer Board, Dr. James E. Morris, Portland State University		



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**Session Details**

<p><b>Session 1A – Outreach and retention</b> Shiley 319 – Friday, 10:20-12:00</p>	<p><b>Session 1B – Freshman experiences</b> Shiley 301 – Friday, 10:20-12:00</p>
<p>Susan Patterson Women engineering transfer students: the community college experience</p> <p>Melodie Selby "Had I but known": transitioning from Walla Walla Univ. engineering practice to academia</p> <p>Grant Baker Creating pathways to engineering for youth in Univ. Alaska Anchorage</p> <p>Jeffrey Heys An analysis of factors impacting retention and student success in chemical and biological engineering at Montana State University</p> <p>Christof Teuscher Design of a research internship program for Portland St. Univ. high school students</p>	<p>Milinda Holtzman In-depth look at redesign of freshman electrical engineering courses for improved motivation and early introduction of design</p> <p>Phillip Wong Portland St. Univ.</p> <p>Tammy A first-year design project combining VanDeGrift LEGO® MINDSTORMS® kits and other materials</p> <p>Univ. of Portland</p> <p>Steven Zemke Introduction to engineering course at Gonzaga Univ. Gonzaga University</p> <p>Laura Patterson Community service learning in a first-year engineering communication course: preliminary reflections</p> <p>Univ. of B. C., Okanagan</p> <p>Ellen Momsen Engineering 1,000: implementing an activity-based orientation program for over 1,000 students</p> <p>Oregon St. Univ.</p>
<p><b>Session 2A – Dr. Raymond Landis Workshop</b> Shiley 110 – Friday, 2:15-3:55</p>	<p><b>Session 2B – Capstone and project-based classes</b> Shiley 301 – Friday, 2:15-3:55</p>
<p>Workshop to model active learning approaches for building first-year engineering students into learning communities, strengthening their commitment to engineering, and facilitating change in their attitudes and behaviors to those appropriate to success in math/science/engineering coursework.</p>	<p>Martin Weiser Putting more engineering into capstone design and senior project courses – work in progress</p> <p>Eastern Wash. Univ.</p> <p>Branimir Microwave circuit design through active learning</p> <p>Pejcinovic Portland St. Univ.</p> <p>Craig Johnson Engineering project management and entrepreneurship in mechanical engineering technology</p> <p>Central Wash. Univ.</p> <p>Iris Baiocchi Laboratory classes: some ideas</p> <p>Jie Sheng Continuous improvement in CES capstone design course at UW Tacoma</p> <p>Univ. of Wash., Tacoma</p>
<p><b>Session 3A – Activity design</b> Shiley 319 – Friday, 4:10-5:30</p>	<p><b>Session 3B – Program and course development</b> Shiley 301 – Friday, 4:10-5:30</p>
<p>Tanya Crenshaw Setting up a “capture the flag” game for a computer security course</p> <p>Univ. of Portland</p> <p>Gary Spivey Preparing engineers for service</p> <p>Michael Foster George Fox Univ.</p> <p>Katherine Golder Engaging students in engineering communication with competition and prizes</p> <p>B. C. Inst. Tech.</p> <p>Puttipong Signals and systems: theory and practice</p> <p>Mahasukhon Idaho St. Univ.</p>	<p>Santosh Devasia Integrating nanopositioner design issues into an existing automatic controls course</p> <p>Univ. of Wash.</p> <p>Stanley Innovations in articulating two-year and four-year engineering and technology programs at Utah Valley Univ. Utah Valley University</p> <p>Klemetson</p> <p>Robert Albright Numerical and graphical illustrations of fundamental concepts in automatic control systems</p> <p>Univ. of Portland</p>
<p><b>Saturday Workshop – Education-related Proposals for the National Science Foundation with a focus on the Noyce Program – Shiley 319, 8:30-11:00</b></p>	<p><b>Saturday Workshop – Joint ASEE/IEEE Education Chapter Workshop on The Diligent Electronics Explorer Board – Shiley 249, 8:30-11:30</b></p>