Community and Service Learning

*Sponsored by South Carolina Coalition of Mathematics and Science – Dr. Tom Peters*

Ron Welch, The Citadel, Dean of Engineering

Jennifer Ogle, Clemson University, Civil Engineering Faculty Director of Engineers for Developing Countries

Moshe Kam, New Jersey Institution of Technology, Dean of Engineering; IEEE / EPICS-in-IEEE

Bill Oakes, Purdue, Engineering Education, Director of EPICS

April 14, 2015
## Engineering Education Practice - 2011

Survey responses from 110 eng’g depts at 72 universities (46% rate)  
ASEE report *Innovation with Impact*, 2012

<table>
<thead>
<tr>
<th>Leaders in this Practice routinely</th>
<th>Not important</th>
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<tr>
<td>Int’l programs</td>
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<td>Labs</td>
<td>Co-op/interns</td>
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<td>entrepreneurship</td>
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<td>Research</td>
<td>Competitions</td>
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<td>Service-learning</td>
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# Engineering Education Practice - 2011

Survey responses from 110 engineering departments
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<td>Orange</td>
<td>Green</td>
<td>Blue</td>
</tr>
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- Int’l programs
- Entrepreneurship
- Service-learning
- Labs
- Co-op/interns
- Research Competitions

63% neither valued nor practiced service learning
Grand Challenge Scholars - 2015

- 122 Deans of Engineering signed the Letter of Commitment presented to President Obama in March
- 5 components

1. Hands-on research or design project connected to the Grand Challenges;
2. Real-world, interdisciplinary experiential learning with clients and mentors;
3. entrepreneurship and innovation experience;
4. global and cross-cultural perspectives; and
5. service-learning
Four presentations:

Ron Welch, The Citadel, Dean of Engineering

Jennifer Ogle, Clemson University
Associate Professor of Civil Engineering
Faculty Director of Engineers for Developing Countries

Moshe Kam, New Jersey Institution of Technology,
Dean of Engineering; IEEE / EPICS-in-IEEE

Bill Oakes, Purdue, Professor of Engineering Education
Director of EPICS

Breakout discussions: why, what, how?