



AWE – Assessing Women and Men in Engineering

Assessment Tools for STEM Outreach (and more)

Project Directors:

Barbara Bogue

Penn State University

Rose Marra

University of Missouri



What is AWE?

- Assessing Women and Men in Engineering
- NSF- funded project to build assessment capacity among STEM outreach practitioners
 - Exportable instruments for typical STEM recruitment / retention activities
 - Assessment capacity building tools *not just for engineering but also for science, and computer science*
 - Set of assessment “how-tos”



Funded through NSF HRD grants 0120642,
0607081, 0010224, 0734072, 0631789

AWE Partnerships

- AWE is part of NGCP
 - To build capacity for assessment and evaluation with NGCP participants
- AWE has partnered with SWE – Society of Women
- Partnerships = enhanced suite of pre-college outreach assessment tools for science, engineering and computer science



AWE Pre- College STEM Outreach Assessment Tools

- Versions for middle school & high school-aged participants
- Applicable for activities in informal or school based settings
- Versions for assessing at different times
 - Pre
 - Immediate Post, and
 - 3 to 6-Mo. Post

AWE Pre- College STEM Outreach Assessment Tools

- To Access Surveys:
 - Complete free registration at aweonline.org
 - Download the appropriate hard copy version (e.g. science, engineering)
 - Or export online survey templates
- To Customize Surveys:
 - Add your own activity name, and appropriate additional questions, etc.

AWE Pre- College STEM Outreach Assessment Tools

To Prepare for Use:

- Decide when you wish to collect data (e.g. pre, immediate post, 3 – 6 mo post)
- Determine if your objectives match chosen survey
- For additional objectives (hands on learning, sense of community, selecting an academic institution), choose pre-prepared optional question modules to add to your survey
 - Can be added anywhere in survey
 - Use question module guide to determine which modules are appropriate

SWE-AWE Pre- College STEM Outreach Assessment Tools

Also available–

- Outreach Activity Observation Form
 - Semi-structured observation of an activity can provide formative feedback on what's working and what isn't
 - Great for working with volunteers
- Implementation Guide for all of above
 - Instructions for use of all instruments

Use AWE Instruments and Tools ..

- *For any* STEM outreach activities ...
- NGCP-related folks – we hope you'll use them for your outreach .. But AWE instruments are for anyone who has a STEM related assessment need!
- Get started and find out more at AWEOnline.org!