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Transforming Culture in  
Engineering Education

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## Go Beyond “Add Women and Stir”

*Improve Gender Equity in Your Organization*

November 19, 2013  
3pm

# Questions & Discussion



**Host: Liz Litzler, PhD** – Director of Research, University of Washington Center for Workforce Development; WEPAN Secretary



**Moderator: Jada Lewis**– Assistant Dean for Diversity Programs, Louisiana State University; WEPAN Professional Development Committee



**Speaker: Patricia Deyton** – Dean for Graduate Programs, Director for the Center for Gender in Organizations, Professor of Practice, The Simmons School of Management, Boston MA



**Speaker: Beth Holloway, PhD** – Director of the Women in Engineering Program, Purdue University, Past WEPAN President



**Speaker: Isaura Gaeta** – Director of the Global Program Office, Intel Corporate Affairs; WEPAN Industry Member at Large

# General Info and Q&A

- The webinar uses Voice Over Internet. If your sound quality is not good, a teleconference line is available:
  - Phone: +1 (415) 655-0059 Access Code: 158-044-852
  - Audio Pin: Check your screen once you dial in.
- Participant microphones are muted for quality.
- Undock, expand “Questions” pane in control panel.
- We will stop for questions at the end of the webinar. Please post your questions during the webinar.
- Presenters will stay on the line for an additional 10 minutes after the webinar. We will open the microphones for you to ask them questions directly.
- Stay with us if we are temporarily disconnected.
- Download PowerPoint and link to recorded webinar at [www.wepan.org](http://www.wepan.org) > Webinars.

# WEPAN's Core Purpose

- **To propel higher education to increase the number and advance the prominence of diverse communities of women in STEM.**



# About WEPAN [www.wepan.org](http://www.wepan.org)

- **Core Values:**  
**Knowledge, Collaboration, Inclusion and Leadership**
- **880 members from 200 engineering schools, corporations, government and non-profits**
- **Support WEPAN's work! Become a member, make a donation at [www.wepan.org](http://www.wepan.org)**

# Women in STEM Knowledge Center

[www.wskc.org](http://www.wskc.org)

**Goal: Increase the number, scope and effectiveness of initiatives to advance women in STEM.**



- **Catalogued and fully cited resources-1,400+**  
Research, reports, data and statistics, agenda papers, bibliographies, best practices,
- **Online Professional Community**  
Network, collaborate, identify experts, share information



- Four Frames for Gender Equity are the thematic areas
- New this year: Proposals, Not Abstracts/Papers
- Proposals now due: December 2<sup>nd</sup>

# Poll Question

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Which of the following do you believe to be true about Women in Engineering?

- Women need to adapt to existing engineering culture
- Academia needs to adapt to attract and retain more women
- Industry needs to adapt to attract and retain more women
- Both need to adapt to attract and retain more women
- All of the above





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## **Go Beyond “Add Women and Stir”**

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# State of Play

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- Women are well represented in middles of organizations
- Myths about “not enough women” in the pipeline are shattered
- Women remain behind in leadership roles in almost all types of organizations
- Serious inequity at all levels continues, e.g. the wage gap

# Making Change: A Framework for Promoting Gender Equity\*

- Many theories about the causes of gender inequity in organizations
- All have merit
- Essential elements
- Focus is on a particular definition or symptom

*Based upon the work of D. Kolb, J. Fletcher, D. Meyerson, D. Merrill-Sands, R. Ely at the Center for Center in Organizations, Simmons School of Management*

# A Comparative Framework

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- Three traditional approaches:
  - Frame 1: “Equip the Women”
  - Frame 2: Create Equal Opportunity
  - Frame 3: Value Differences
- A new framework addressing the complex role of gender in organizations:
  - Frame 4: Revision Work Culture

# Frame 1: “Equip the Women”

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- Individualistic – assumes rise and fall on own merits
- Gender taken as biological sex instead of social construct
- Assumes equal access to opportunities
- Assume women do not know the rules of the game – lack requisite training and skills

# Goal of Frame 1: “Equip the Women”

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- Gender equality achieved by minimizing differences through training and skill building
- Impact has been positive for many women

However:

- Rules of the game (organizational structures and policies) remain in place
- Gender inequity remains in place (State of Play)
- Change is very slow

## Frame 2: Create Equal Opportunity

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- Interventions are legalistic and policy based
- Address many essential elements of a fair workplace
  - More transparent hiring and promotion
  - Sexual harassment
  - Alternative career tracks
  - Work and family benefits

# Goals of Frame 2: Create Equal Opportunity

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- Increased recruitment, retention and promotion of more women
- Reduction in tokenism
- Are critical for gender equity

However:

- Gains above middle remain elusive
- Do not address need to change organizational culture



## Frame 3: Value Difference

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- Shifts from eliminating differences to valuing differences
- Conceptualizes gender in terms of socialized differences
- Masculine and feminine “ways of being”
- Acknowledges that “feminine” attributes are not recognized or valued in the workplace

# Goals of Frame 3: Value Difference

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- Places gender equity in a broader diversity initiative
  - gender as one of many important differences
- Promotes tolerance and understanding of differences
- Can lead to change in cultural norms

However:

- Does not challenge differential and hierarchical valuing of difference between the masculine and feminine

## Frame 4: Revision Work Culture

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- Address underlying systemic factors that lead to organizational inequity
- Gender in this frame is about the organization itself as inherently gendered
- Deeply held, often unquestioned, often unconscious behaviors and practices

# Goals of Frame 4: Revision Work Culture

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- Revision Frame 1: training in strategies to address gendered organizations
- Revision Frame 2: focus upon not just policies, but how they are in practice
- Revision Frame 3: challenge the assumptions of overly valuing masculine and under valuing feminine
  - look at the contribution to the final product

# Goals of Frame 4: Revision Work Culture and Gendered Organizations\*

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## Second Generation Gender Dynamics

- Gendered Jobs
- Gendered Work
- Gender and Leadership
- Gender and the Ideal Worker
- Gender and Social Capital

*Based upon the work of Ely and Meyerson*



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# The 4 Frames and Difference

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- Frame 1: Equip the Women
  - Differences are not good; how can they be diminished?
- Frame 2: Create Equal Opportunities
  - Differences exist; create band-aids for the system to deal with them
- Frame 3: Value Differences
  - Differences are important; acknowledge them.
- Frame 4: Change the Culture
  - Differences are what make the organization successful

# Using the 4 Frames

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- Many leaders of diversity efforts work extensively in Frames 1 and 3.
  - Underrepresented groups in current culture still need support.
  - But these frames don't produce permanent and systemic change.
- Consider how you can work in Frames 2 and 4.



# Examples

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- Moving from Frame 1 to Frame 4:
  - Outreach Strategy Change
  - From hosting 120 to reaching over 800 campers
  - From using female role models for girls to using female role models for girls AND boys

# Examples

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- Frame 2/4 Activity
  - Admissions Criteria Adjustment
    - Understand your data
    - Shifted paradigm about factors for academic success



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# Engineering culture in Industry

- High Tech industry - fairly quick adopters of traditional approaches – the first 3 frames
  - “Equip the Women” training
    - Mentoring and coaching
    - Intel’s Command Presence example
    - *Lean In* communities
  - Create Equal Opportunity – legislated, work policies
  - Frame 3: Value Differences
    - Women’s affinity groups
    - Diversity days

# Engineering culture in Industry

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- Dominant culture is still “masculine”
  - Competitive, assertive
  - Single-tasked
  - Professionals “live to work”
- Innovative cultures include “feminine” attributes
  - Collaborative, empathetic
  - Concerned about user experience of products
- Evolving work culture will improve experience of technical females and also help the bottom line

# Asking Questions and Discussion

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- **Participant microphones are muted for webinar quality.**
- **Undock and expand the “Questions” pane in the webinar control panel and type your questions in the box.**

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# Thank You for Attending

## We Hope You Enjoyed the Webinar!

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- Links to the PowerPoint and recorded webinar will be posted at [www.wepan.org](http://www.wepan.org) > Webinars
- Share with your colleagues!
- Survey following the webinar—please respond!
- Support WEPAN—become a member - make a donation at [www.wepan.org](http://www.wepan.org)
- Pay a personal tribute to someone who has made a difference to women in engineering
- Thank you for attending today!