



Team for Research in Ubiquitous Secure Technology





XSEDE Extreme Science and Engineering Discovery Environment



What we are going to do



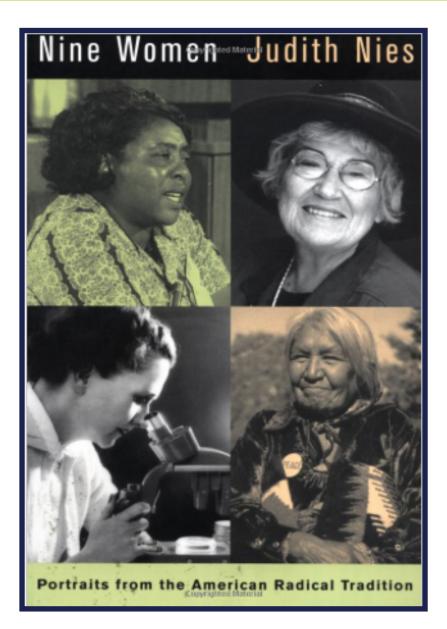
Brief introduction

Get to know one another (Exercises)

Create exploratory conversations on:

-networking -communication -advancement -challenges, successes Wednesday Part II: How are we doing?

Creating change is always active



Not all efforts to create social change have a large audiences.

They do involve doing something that is new, not previously seen or done in that context (culture, environment, department).

How do we advance?

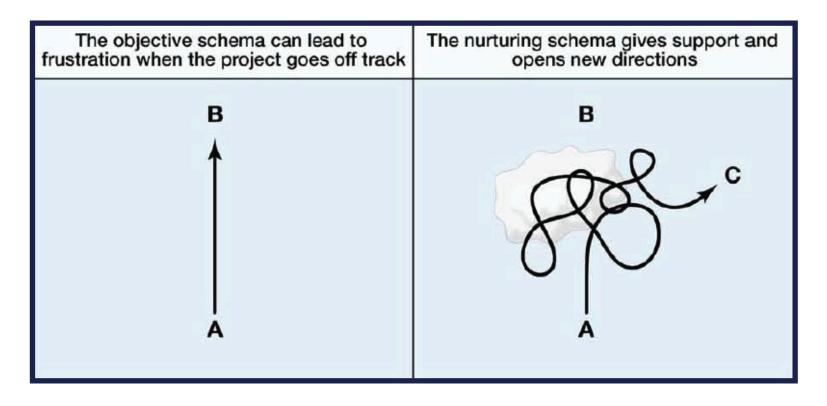
From the abolitionists to the Vietnam peace movement, to the struggle for an Equal Rights Amendment, women have played an organic role in social and political change.

Who are we?

What does it mean to advance our career?

What does it have to advancing women in cyber security?

Career and research journey



...The researcher has entered a phase linked with emotions that may be called 'the cloud.'...Sailing into the unknown again and again takes courage; seeing there something different from expectations, and usually more rich and strange, requires uncommon openness.

-Alon 2009 "Choosing a Good Scientific Research Problem"

Communicating Science



BY BACHEL BEBNSTEIN

A if watching a ball fly through the array they play an animated game of catch. But there is no ball — and this game is serious work. It is part of an exercise to help 12 scientists at the University of Connecticut (UConn) Health Center in Farmington to boost their communication skills. These scientists are engaged in improvisation.

a spontaneous, reactive interaction mode more traditionally seen in comedy performances.

Improvisation games and communication both require attention to others and the forging circle of scientists is gazing skyward, as if watching a ball fly through the air as a cell biologist by training who now spends a cell biologist by training who now spends much of her time running workshops for scientific conferences and research institutions through her company, improvscience, based in Boston, Massachusetts. With that in mind, she has adapted some traditional improvisation exercises, and imaginary catch is one of them. In this game, participants use eve contact to indicate where the 'ball' is being thrown, and granted the successes."

use and read body language to communicate its © 2013 Macmillan Publishers Limited. All rights reserved

'no, but' approach made it "very difficult to have a meaningful conversation", says Max Staller, a systems-biology graduate student at Harvard University in Cambridge, Massachusetts, who has participated in several improvscience workshops. In stark contrast, the 'yes, and' rule worked so well in planning the fictitious party that he now applies it to his research. "I try to consciously think about, is there a

way to say 'yes, and," Staller says. "I make a point in journal club of talking about what's positive about the paper; sometimes we focus too much on the shortcomings, and take for Holmes also uses games such as 'mirrors', 🕨

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Improvisational skills are central to communication, creativity and building your career.

Bernstein, 2014, Communication: Spontaneous Scientists, NatureJobs

Improvisation: Creating unscripted scenes together

improvisational theater games and exercises created in which people collectively solve problems. This includes the problem of creating the inclusive group that can solve problems.

-Spolin,1999. Lobman & Lundquist. 2007

improvisation in science is colleagues listening to one another, building with each others ideas, and responding flexibly together to new challenges. These skills allow scientists to transform work environments into scientific playgrounds of exploration and innovation.

improvisational workshops for scientists





Improvisation: Creating unscripted scenes together

Tenets of Improvisation

Make your partners look good Focus is on the "ensemble" • Not about being funny

Yes, and Radically accept what's already happened • Build with it

Make and receive offers EVERYTHING is an offer

Do not pre-determine a scene It's okay not to know • The collective creation is the focus

Improvisation: Creating unscripted scenes together

Games we played

Synchronized clap

Zip, Zap, Zop variations: referee • switch • multiplies

Name, gestures

How have women advanced?

or many people the word "radical" brings up images of agitation, angry crowds, and stirring public speeches. It also evokes dedication, commitment, and a struggle against overwhelming odds. The word "women" calls forth mental pictures of the home—privacy, nurture of children, charity, and church work. The two words do not sit together easily: "radical women" is an unfamiliar combination.

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Creating new conversations

- What do you love about your work?
- What do you aspire to?
- What challenges do you have where you are? What is in the way of reaching aspirations
- What are the challenges at your institution?

How have women advanced?

Like most women of my generation, I had learned little women's history. Our history books mentioned women only in the temperance and suffrage movements, always in the passive voice. We learned that women "were given" the vote in 1920 because of their contributions to the war effort in World War I. No mention of the specific details that composed the historic reality: ninety years of activism by successive generations of women who raised millions of dollars in pennies and nickels to finance and organize 56 different campaigns for state referenda, 480 campaigns to urge legislatures to put woman's suffrage on the ballot, 47 campaigns for state constitutional conventions, 30 campaigns to urge presidential party platforms to include woman's suffrage as a plank, 19 lobbying efforts with nineteen successive Congresses before the Nineteenth Amendment was ratified. On August 26, 1920, American women gained political citizenship and with it the tools to open doors to education and economic independence.

Bibliography

Micro inequities

Rowe, M. 1990. Barriers to equality: The power of subtle discrimination to maintain unequal opportunity. *Employee Responsibilities and Rights Journal*, 3(2): 153-163.

Brogaard, B.2013. Micro-Inequities: 40 Years Later.How to overcome implicit biases in the workplace. Psychology Today. http://www.psychologytoday.com/blog/the-superhuman-mind/201304/micro-inequities-40-years-later

Guo, P. 2014 Silent Technical Privilege. www.slate.com http://www.slate.com/articles/technology/technology/2014/01/ programmer_privilege_as_an_asian_male_computer_science_major_everyone_gave.h tml

Micro affirmations

Scully, M & Rowe, M. 2009 Bystander Training within Organizations Journal of the International Ombudsman Association, 2 (1), p1 http://web.mit.edu/ombuds/publications/bystander.pdf

Bibliography

Women creating change

Nies, J. 2002. *NINE WOMEN: Portraits from the American Radical Tradition.* University of California Press.

Performance, learning and development

Holzman, L 2008. *Vygotsky at work and play.* Routledge http://loisholzman.org/vygotsky-at-work-and-play/

Lobman, C & Lundquist, M. 2007. *Unscripted Learning: Using improv activities across the K-8 curricula*. New York, NY: Teachers College Press.

Spoilin, V. 1999. *Improvisation for the teacher*. Northwestern University Press.

Vygotsky 1978 *Mind in society: The development of higher psychological processes.* Cambridge, MA: Harvard University Press.