



Welcome!

2012 Michigan Tapestry Workshop Michigan State University & Oakland University







Getting on our internet

• REMOVED







Thanks for making the workshop possible:



















Organizers and Speakers

Joel Adams

Jim Cohoon

Joanne Cohoon

Laura Dillon

Laura Dinsmoor

Cathy Dinsmoor

Ann Drobnis

Susan Horwitz

Shannon Houtrouw

Wendy Johnson

Robert Luciano

Fatma Mili

Nilesh Patel

Robert Pennock

Seth Reichelson

Kelly Schultz

Stephanie Weber





Special Thanks

Joanne McGrath Cohoon & Jim Cohoon

- Principal investigators of the NSF Grant
- Conceived of and designed Tapestry Workshops
- Conducted training workshops and created materials (template for these slides ②)







Purpose of the workshop

Share research-based, field-tested ways to

Attract more and diverse students into computing

Influence perceptions of computing's importance

and its opportunities

 Better engage students in the excitement and rewards of computing

The Tree of Life, 1854





Listen and Share, then Apply

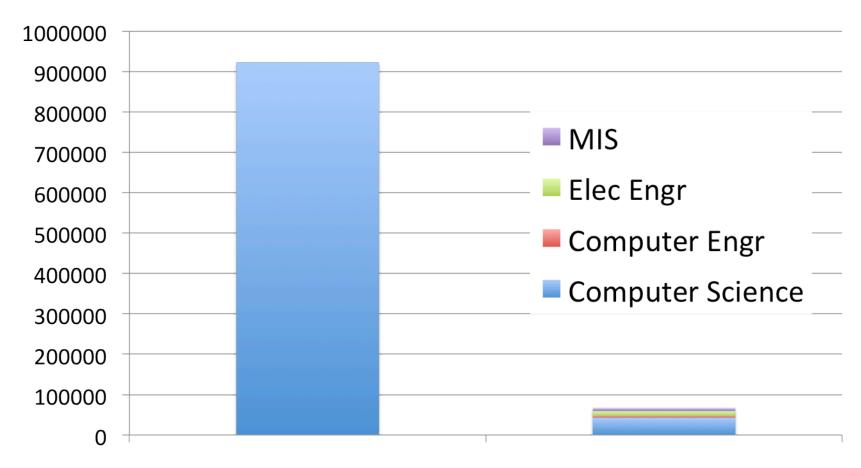








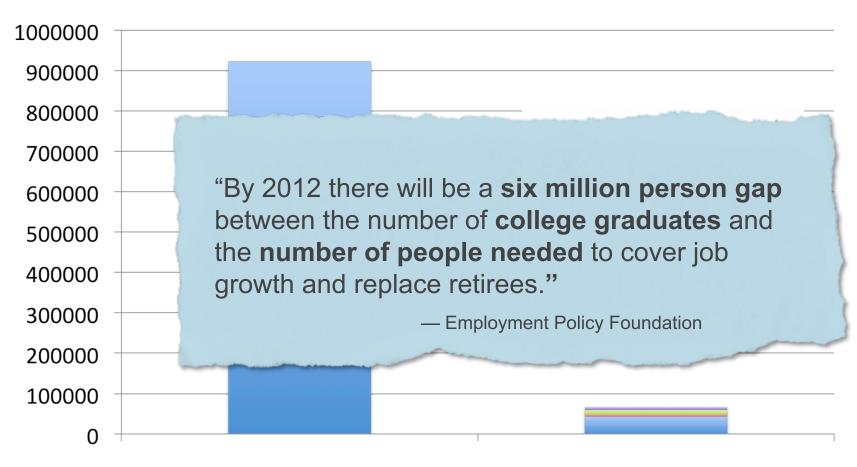
The workforce is headed for calamity



Degrees = 2011, from IPEDS Completion data

BLS Data on 2020 projected job openings for largest computing occupations

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Women and minorities are the untapped resource

- Women=57% professional jobs in the U.S. workforce, only <u>25%</u> of CIT jobs.
- 56% of technical women leave their jobs at the mid-career point (double the rate of men)
- Given participation in the <u>overall workforce</u>,
 African Americans and Latinos in computing related jobs should really be double what it is
 today.

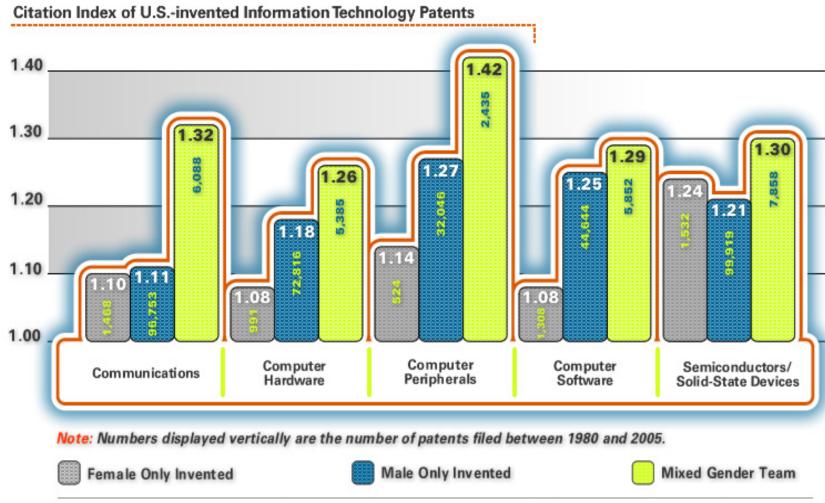


- Lucy Sanders, NCWIT, 7/31

stry Workshop

ENCINEEDING

Innovation suffers without diverstity



The citation index is a normalized measure of the impact of a particular patent. For example, if a patent has a citation index of 3.51, then the patent has been cited 3.5 times as often as typical patents of the same age and technology class. The citation index is based on the average of all U.S. patents in each technology class invented anywhere in the world.

It's the right thing to do

Build cool stuff.



Sell cool stuff.



Do cool stuff.





Access to meaningful, rewarding occupations

COLLEGE OF

ENGINEERING

Where are you from?



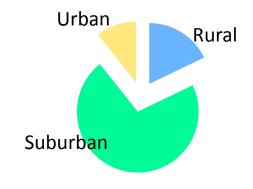
- 26 Michigan
- 1 Indiana
- 1 Ohio
- Also:
 - 1 Florida
 - 1 Pennsylvania



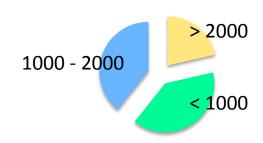


What are your circumstances?

HS Location

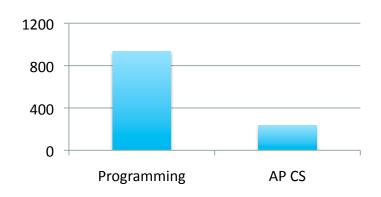


HS Enrollment

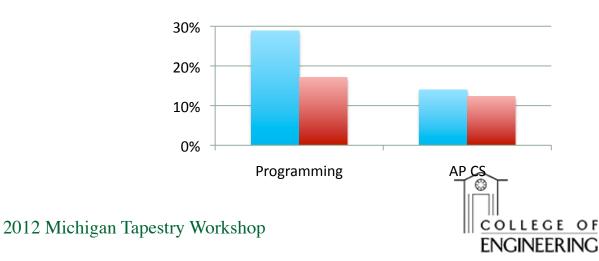




Numbers of students



Composition of students



Your Top 5 Hopes for the Workshop

- 1. Effective **recruiting** methods, especially for women & minorities
- 2. Pedagogy that engages all types of students
- 3. Sharing with other CS or IT teachers
- 4. Effective curricula
- 5. Means of garnering **support** from administrators, parents, guidance counselors







Your Hopes and Our Plans

	Recruiting	Pedagogy	Sharing	Curriculum	Support
Wed			Ice breaker Dinner (6:30) Brainstorm (4:30)	Pennock (3:00) Johnson (4:30)	Welcome (noon) Drobnis (12:30) Cohoon (1:30)
Thu	Cohoon (2:00) Reichelson (3:30)	Horwitz (8:20) Luciano (1:20)	Warmup (8:00) Lunch Breakout (4:15) Dinner (6:00)	Adams (10:35) Patel (11:35)	
Fri			Houtrouw (9:15) Your Plans (10:15)	Schultz (8:30)	Resources (8:00)





Comments or Questions?





