Documentary "Picture a Scientist" and discussion

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uc3m

"**PICTURE A SCIENTIST** chronicles the groundswell of researchers who are writing a new chapter for women scientists. Biologist Nancy Hopkins, chemist Raychelle Burks, and geologist Jane Willenbring lead viewers on a journey deep into their own experiences in the sciences, ranging from brutal harassment to years of subtle slights. Along the way, from cramped laboratories to spectacular field stations, we encounter scientific luminaries - including social scientists, neuroscientists, and psychologists - who provide new perspectives on how to make science itself more diverse, equitable, and open to all."

"Quietly devastating." - The Boston Globe

▸ **a film by Sharon Shattuck & Ian Cheney**

"Sweeping in scope yet intimately compelling." - Science

Objectives

- What do women contribute to science? (And to STEM?)

- Get to know and share our views of the current reality. Be aware

- Reflect on our scientific and social environment
  - What is my role?

Some Data

▸ Diverse and inclusive teams make more impactful decisions 87% of the time, take less time to make decisions, and deliver 60% better results (Forbes)

▸ Organizations with more than 30% female leaders have 6% higher net margins (Peterson Institute for International Economics)

▸ Boards of directors with more women have a 36% higher return on equity (Credit Suisse)

TeamUp5G WS on Ethics and Inclusiveness

It's not a women's issue, it's everyone's!

Organization

▸ To watch together the documentary that is structured in six parts

▸ Every two parts we will have a 15 min open discussion

  ○ Some questions will be proposed

  ○ Two ways to participate:

    ▸ Speaking: Raise your hand to speak, the moderators will give you the floor

    ▸ Writing in the chat
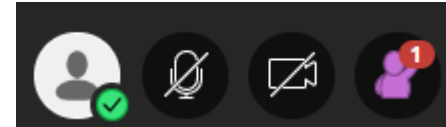
I. The tip of the iceberg & II. The underneath

▸ What is your picture of a scientist?

▸ How would you feel if you came to a club where you are the only different person? Would you become a member of the club?

▸ Is it important to have role models?

▸ What can you/we do? (victim, witness)

In Technical & Engineering areas like Telecomm, the proportion of women is even lower than in the areas presented in the film

unwanted sexual attention
coercion
assault

subtle exclusions
being left off an email
not being invited to collaborate
vulgar name-calling
obscene gestures
hostility
passed over for promotions
relentless pressure for dates
remarks about bodies
sabotaging of equipment

III. Data Driven & IV. The Nature of the beast

▶ When we are different, do you think we need to try to fit?

▶ What do you think about the case of Jennifer and John?

▶ Do you think the data is useful? (never seen it ..)

▶ The importance of getting together, but you do not want to be seen as weaker

Total Lab Space

Men	Women
2,936 sq. ft. (avg.)	1,974 sq. ft. (avg.)

Figure 18: U.S. Women in STEM

Women in Science & Engineering, 2018

Bachelor's degrees awarded	50%
Master's degrees awarded	44%
Ph.D.s awarded	41%
Post Docs	36%
Employed	29%

Year	Percentage
1900	0.63%
1930	9.33%
1960	4.75%
1990	23%
2017	29%

V. The eyes to See & VI. The Scouts before the Troops

▸ You didn't show it, I didn't know .. To show or not to show? (scene -> kicked out)

▸ What do we lose if this problem is not solved?

  ○ The astronaut - not all cases have a happy ending

▸ Are allies and mentors needed?

Men and Women — 616
Women — 19
Women of Color — 1

Nobel Laureates in Science, 1901 - 2019
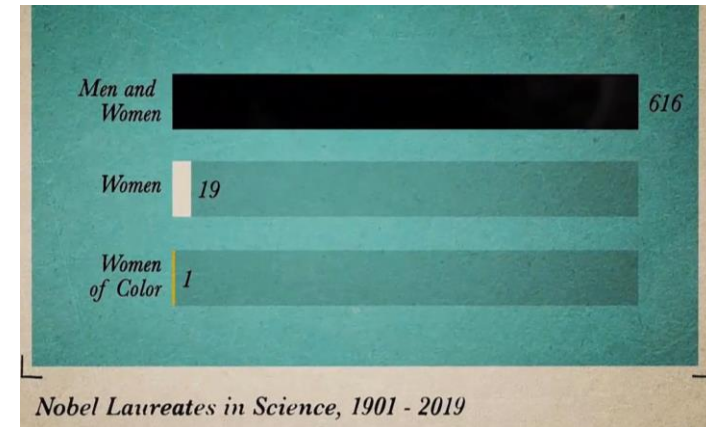
If time allows ..

▸ What is your favorite part of the documentary?

▸ What is your favorite character?

▸ What do you think of so much time and energy spent?

▸ What to tell to the young girls. They don't want to be super-heroes

▸ What did you feel when ..

   o Dr. Marchant was sent out only for 3 years and then he was allowed back?

   o They changed the name of the Glacier?

New RAN TEchniques for 5G UltrA-dense Mobile networks - TeamUp5G

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http://teamup5g.webs.tsc.uc3m.es/