Working Toward the Utility of the Future by Understanding and Addressing Bias

Nicki Pozos, PhD, PE Stefanie Mosteller PNWS May 5, 2016







Spouse. Conth recognizes the contributions of women who have history within our industry and paved the way for ssible space within the world of water.

Facing and addressing bias is the challenge of our time

I almost named this presentation:

"Just another sexist woman."

We are all both the "victims" and "perpetrators" of bias

Our mind does much of its work

Automatically Unconsciously Unintentionally

Guess how many bits of information we are exposed to at any moment in time?

- a. 300
- b. 6,000
- c. 8,000
- d. 11,000

Guess how many bits of information we are exposed to at any moment in time?

- a. 300
- b. 6,000
- c. 8,000
- d. 11,000

Guess how many bits of information we can consciously process at any given time?

- a. 5
- b. 40
- c. 200
- d. 600

Guess how many bits of information we can consciously process at any given time?

- a. 5
- b. 40
- c. 200
- d. 600



99.9% of our information is processed by our unconscious

Our brains create categories to help us navigate the world







Implicit Association Test

Developed by Greenwald, Banaji, and Nosek Tests have been completed by over 14 million people

THE IMPLICIT ASSOCIATION TEST (IAT)

- Flower Names: orchid, daffodil, lilac, rose, tulip, daisy, lily
- Insect Names: flea, centipede, gnat, wasp, roach, moth, weevil
- Pleasant-meaning words: gentle, heaven, cheer, love, enjoy, happy, friend
- Unpleasant-meaning words: damage, vomit, hurt, poison, evil, gloom, ugly

INSECTS FLOWERS

ROSE

INSECTS FLOWERS

centipede

INSECTS FLOWERS

DAFFODIL

unpleasant words

NEW CATEGORY

unpleasant words

ugly

unpleasant words

LOVE

unpleasant words

vomit

READY?

FLOWERS or unpleasant words

FLOWERS or unpleasant words

ORCHID

FLOWERS or unpleasant words

gentle

FLOWERS or unpleasant words

ROSE

FLOWERS or unpleasant words

heaven

FLOWERS or unpleasant words

FLEA

FLOWERS or unpleasant words

damage

FLOWERS or unpleasant words

DAFFODIL

FLOWERS or unpleasant words

cheer

FLOWERS or unpleasant words

CENTIPEDE

FLOWERS or unpleasant words

vomit

FLOWERS or unpleasant words

GNAT

FLOWERS or unpleasant words

hurt

FLOWERS or unpleasant words

LILAC

FLOWERS or unpleasant words

love

FLOWERS or unpleasant words

TULIP

FLOWERS or unpleasant words

enjoy

FLOWERS or unpleasant words

WASP

FLOWERS or unpleasant words

poison

FLOWERS or unpleasant words

ROACH

FLOWERS or unpleasant words

evi

FLOWERS or unpleasant words

DAISY

FLOWERS or unpleasant words

gloom

FLOWERS or unpleasant words

MOTH

FLOWERS or unpleasant words

ugly

FLOWERS or unpleasant words

WEEVIL

FLOWERS or unpleasant words

happy

FLOWERS or unpleasant words

LILY

FLOWERS or unpleasant words

friend



INSECTS or unpleasant words

INSECTS or unpleasant words

FLEA

INSECTS or unpleasant words

gentle

INSECTS or unpleasant words

ORCHID

INSECTS or unpleasant words

evi

INSECTS or unpleasant words

ROSE

INSECTS or unpleasant words

damage

INSECTS or unpleasant words

DAFFODIL

INSECTS or unpleasant words

cheer

INSECTS or unpleasant words

CENTIPEDE

INSECTS or unpleasant words

vomit

INSECTS or unpleasant words

LILAC

INSECTS or unpleasant words

hurt

INSECTS or unpleasant words

TULIP

unpleasant words

love

INSECTS or

INSECTS or unpleasant words

GNAT

INSECTS or unpleasant words

enjoy

INSECTS or unpleasant words

WASP

INSECTS or unpleasant words

poison

INSECTS or unpleasant words

ROACH

INSECTS or unpleasant words

heaven

INSECTS or unpleasant words

DAISY

INSECTS or unpleasant words

gloom

INSECTS or unpleasant words

LILY

INSECTS or unpleasant words

ugly

INSECTS or unpleasant words

MOTH

INSECTS or unpleasant words

happy

INSECTS or unpleasant words

WEEVIL

INSECTS or unpleasant words

friend

Test 1

FLOWERS or pleasant words

INSECTS or unpleasant words

Test 2

INSECTS or pleasant words

FLOWERS or unpleasant words

Most people associate women more strongly with liberal arts and men more strongly with science

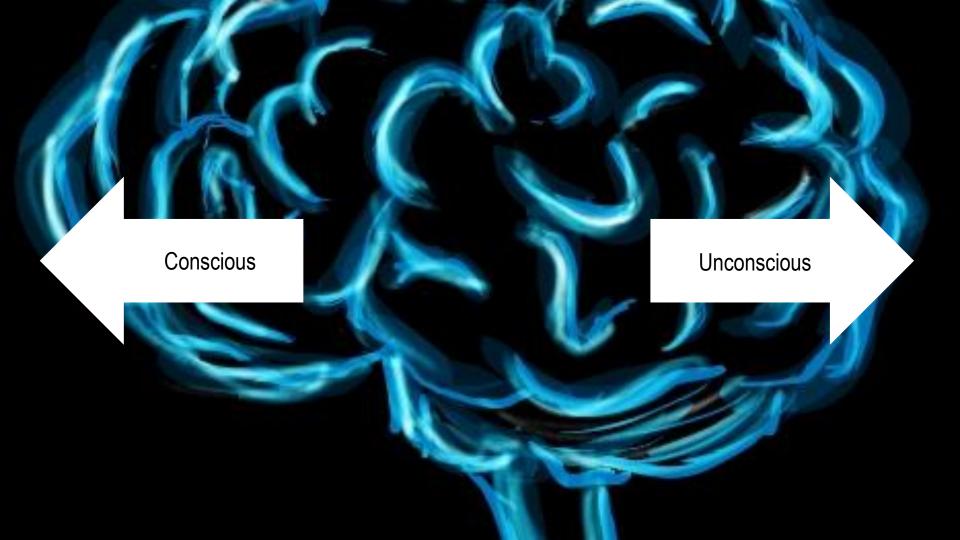
Most people associate women more strongly with family and men more strongly with careers

Most white people have an implicit preference for white people over black people; Half of black have a preference for black people

Most people have an implicit preference for young people over older people, regardless of their age.

"I am aware of the possibility of encountering interpretations of my IAT test performance with which I may not agree."

It's true.



So how does this affect our organizations?



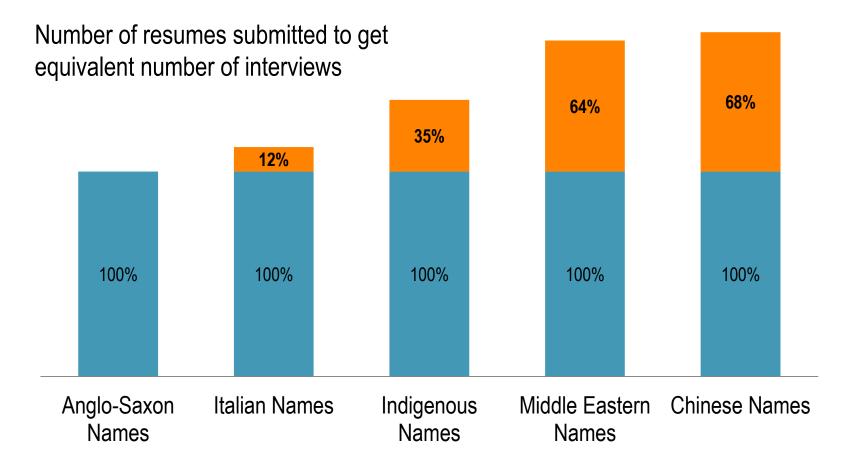
Bias at Work



What happened?

Now imagine if the Sally-John dynamic occurred in the way we:

- Recruit
- Make hiring decisions
- Listen to people's ideas
- Select our leaders



Source: Booth, Alison L. and Leigh, Andrew and Varganova, Elena, Does Racial and Ethnic Discrimination Vary Across Minority Groups? Evidence from a Field Experiment (December 9, 2009)

Why does it matter?



 Forbes Insight Study found diversity is a key driver of innovation

 McKinsey – companies with diverse executive board have significantly higher earnings

 PwC's 18th Annual CEO Survey – 85% of CEOs who have a diversity and inclusiveness strategy say it has enhanced business performance



What can we do?



We can actually change our subconscious biases



Walk boldly toward our biases



Simply having diversity is interesting.

an amazing place to live, work and place

Doing something with it is powerful.™

We believe diversity creates better value, delivers superior client experiences and develops innovative solutions for the markets and communities we serve. And we believe a diverse workforce in an inclusive and collaborative work environment brings out the full talents of all employees.

To find out more about diversity at RBC, please visit us online at www.rbc.com/diversity.

For more information on RBC's commitment to building inclusive communities, please visit us at: www.rbc.com/community-sustainability

Think Differently: Make a conscious effort to seek out people with different backgrounds

Learn Differently: Seek opportunities to immerse yourself in environment outside your comfort zone

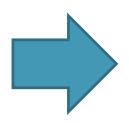
Act Differently: Take deliberate actions to disrupt normal processes



Be aware



(2004) White referees called fouls at a greater rate against black players than white players and the same was true for black referees.



(2007) The study had attracted widespread media attention and the bias virtually disappeared

What could you do to be aware?

Example: Review a presentation on bias before interviewing a candidate

Reduce the opportunity for bias



What could you do to reduce the opportunity for bias?

Example: Remove names during resume screenings

What is one thing you will do?

Resources

- Blind Spot Hidden Biases of Good People (Mahzarin R. Banaji and Anthony Greenwald)
- Everyday Bias Identifying and Navigating Unconscious Judgments in Our Daily Lives (Howard J. Ross)
- Project Implicit (https://implicit.harvard.edu)
- Outsmarting our Brains Overcoming hidden biases to harness diversity's true potential (Ernst & Young and RBC)
- Hidden Bias: How Unconscious Attitudes on Diversity Undermine Organizations and What to do about it (Gerald J. Holder)

Resources (continued)

- Outsmart your own biases (Harvard Business Review, May 2015)
- Yassmin Abdel-Magied: What does my headscarf mean to you? Ted Talk https://www.youtube.com/watch?v=18zvlz5CxPE
- Women at Work series, New York Times, Dec. 6, 2014; January 12, 2015; February 6, 2015
- How to recognize (and overcome) your unconscious biases in hiring (Fast Company, Heidi Grant Halvorson, Mar. 4, 2015)
- You're more biased than you think (Jane Porter, Oct. 6, 2014)