Microaggressions are subtle, mundane exchanges that communicate hostile, derogatory, or negative messages to individuals based on group membership. They can be verbal, behavioral, or environmental, and include staring, glaring, comments, actions, and gestures. These actions are not always conscious, yet are constant - often daily - experiences for people of color, women, LGBTQ+ communities, people with disabilities, and members of other under-represented groups.

Prevalence & Effects

College students of color experienced an average of 291 microaggressions over 90 days.

Microaggressions:
- Negatively impact mental health
- Decrease productivity & problem-solving abilities
- Perpetuate stereotype threat
- Create hostile work & institutional environments

What Can We Do?

To address microaggressions, learn to:
- Define them especially “invisible” ones
- Recognize them in ourselves, and others
- Deconstruct their hidden meanings
- Acknowledge their effects & learn about coping strategies
- Take action

Types of Microaggressions

- Microassaults (often conscious)
- Microinsults (often unconscious)
- Microinvalidations (often unconscious)

Why Does This Matter for STEM Professions?

Microaggressions are prevalent across social environments; they exist in media coverage, clinical therapy, classrooms, academia, workplaces, and communities. They are powerful because of the subtle, negative messages they often send, including that the person does not belong, and they deviate from the accepted norms. These messages are often unconscious and unintentional.

In order to address the lack of diversity in STEM fields, individuals and organizations must acknowledge their unconscious biases and behaviors. Microaggressions are interpersonal and institutional; they can be as simple as unintentionally excluding a person from an important conversation.

Education and reflection - individually, communally, and institutionally - are critical steps to making workplace and community environments inclusive to all people, regardless of the groups they identify with. Once identified, action is needed to correct policies and behaviors that have the potential to harm and discriminate against members of our communities.

Microaggressions:
- You are so well spoken for an immigrant!
- Sexism doesn’t exist.
- Denies, excludes, & negates the experiences and feelings of an individual in a group.

Microinsults:
- Aims to attack a person’s group identity, or harm them through name-calling, avoidance, and discriminatory actions.

Microinvalidations:
- Conveys a stereotype, rudeness, or insensitivity towards a person’s group identity.

Includes assumptions about the individual’s:
- Sexuality
- Citizenship
- Language abilities
- Belonging
- Intelligence
- Gender
- Criminality

May lead individuals to question their experience. Their response to the negative interaction may be perceived as an irrational overreaction.
References


Recommended Readings


About WWEST 2015-2020

Westcoast Women in Engineering, Science and Technology (WWEST) is the operating name for the 2015-2020 NSERC Chair for Women in Science and Technology (CWSE), BC and Yukon Region. Our mission is to promote science and to engage students, industry, and the community to increase the awareness and participation of women and other under-represented groups in science, technology, engineering, and mathematics (STEM). WWEST works locally and, in conjunction with the other CWSE Chairs, nationally on policy, research, advocacy, facilitation, and pilot programs that support women in science and engineering.

About the 2015-2020 WWEST Chairholder

Dr. Lesley Shannon PEng is an Associate Professor and Chair for the Computer Engineering Option in the School of Engineering Science at Simon Fraser University. Dr. Shannon studies computer systems design. She works in a rapidly growing field that combines custom computing hardware and software to design and implement application-specific computer systems for applications in a wide range of areas including robotics, machine learning, aerospace and biomedical systems, multimedia applications, and cloud computing. She teaches both undergraduate and graduate students in the area of Computer Engineering; she received the 2014 APEGBC Teaching Award of Excellence in recognition of her classroom and out-of-class mentoring activities and her contributions in leading a redesign of the School’s undergraduate curriculum at SFU. Dr. Shannon has long been an advocate of increasing the diversity of students and workers in science- and engineering-related fields and was instrumental in developing programs to support a successful transition from high school into university.

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