

"Ryerson is at the heart of Toronto, and Toronto is in the 'Dish With One Spoon Territory'. The Dish With One Spoon is a treaty between the Anishinaabe, Mississaugas and Haudenosaunee that bound them to share the territory and protect the land. Subsequent Indigenous Nations and peoples, Europeans and all newcomers have been invited into this treaty in the spirit of peace, friendship and respect."

Ryerson University Land Acknowledgement https://www.ryerson.ca/aec/land-acknowledgement/

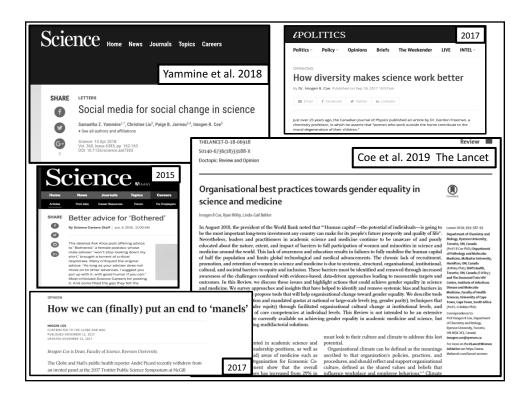


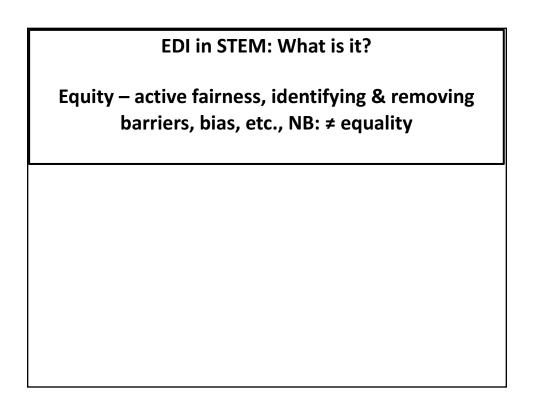
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Land acknowledgement is a call to action – what is your response?

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EDI in STEM: What is it?

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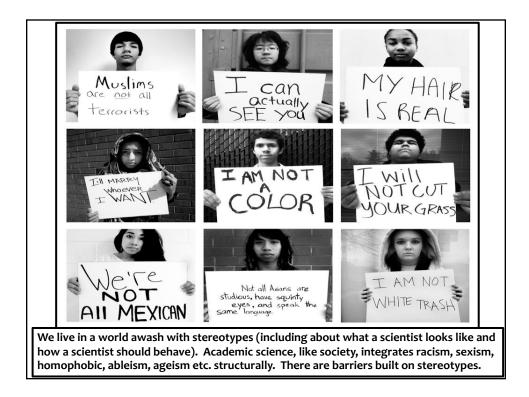
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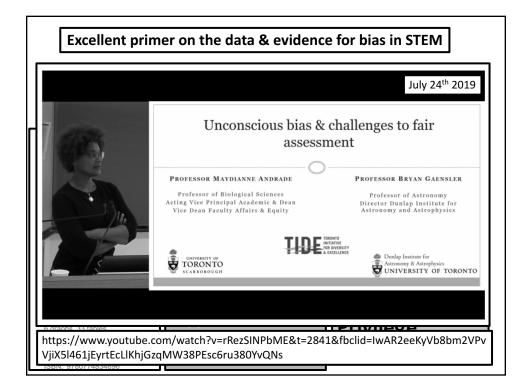
Inclusion – ensuring the active participation in an organization, group, structure, etc. Quote: "a sense of belonging is the heartbeat of inclusion"

EDI in STEM: What is it? Equity – active fairness, identifying & removing barriers, bias, etc., NB: ≠ equality Diversity – awareness of differences (race, ethnicity, gender, sexual orientation, socio-economic status, age, physical abilities etc.) ↓ Look around the room right now Inclusion – ensuring the active participation in an organization, group, structure, etc. Quote: "a sense of belonging is the heartbeat of inclusion" ↓ Pay attention to who is participating in dialogue or decision making. Allyship.





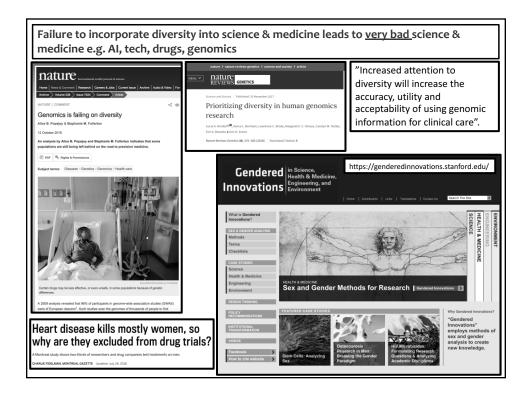


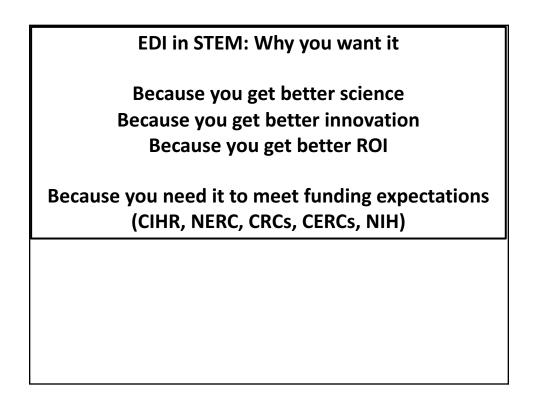


EDI in STEM: Why you want it?

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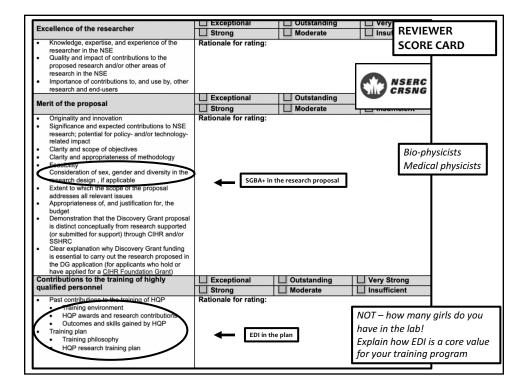
Because you get better science Because you get better innovation Because you get better ROI





Looking for a grant? SGBA+ incorporated into research mandatory @ CIHR, NSERC, SSHRC Demonstrate EDI for HQP component (30%) @ NSERC

NSERC CIHR IRSC CIHR Institute of Gender and Health CRSNG SCIENCE IS Guide for Applicants: Considering equity, diversity and inclusion in application **BETTER WITH** SEX AND GENDER Government Gouvernem of Canada du Canada rtments | Fran Canadian Institutes of Health Research Canadä Strategic Plan 2018-2023 Science is better with sex and gender Table of Contents



EDI in STEM: Why you want it

Because you get better science Because you get better innovation Because you get better ROI

Because you need it to meet funding expectations (CIHR, NERC, CRCs, CERCs, NIH)

Because it makes you a better scientist

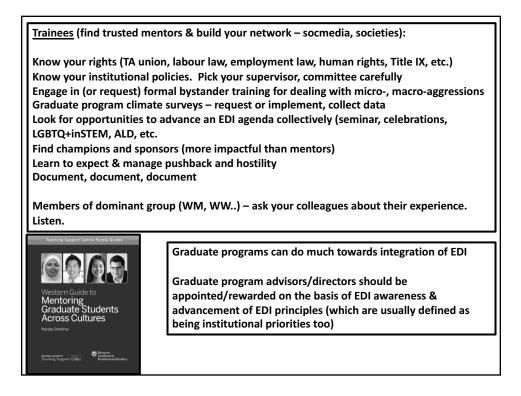
being aware of bias in all aspects of the scientific endeavour (technical, human, etc) allows us to work towards removing bias while opening more avenues for inquiry, broader questions, more accurate answers & the identification of real excellence

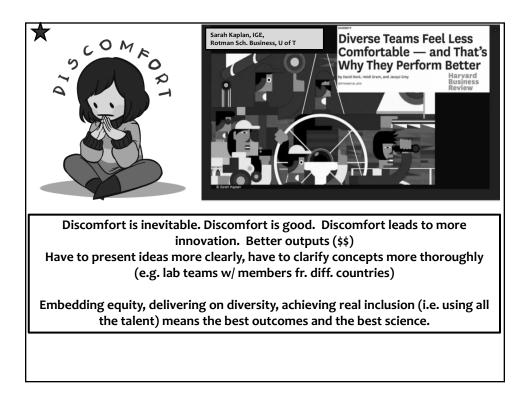
EDI in STEM: How to get it

Remember this: ★ Awareness-Education-Actions-Outcomes

Everyone: Learn, learn about what works and what doesn't, take action based on what works (evidence-based approaches, systems-approaches, individual reponsibility – for all) and measure outcomes to see if actions lead to positive change

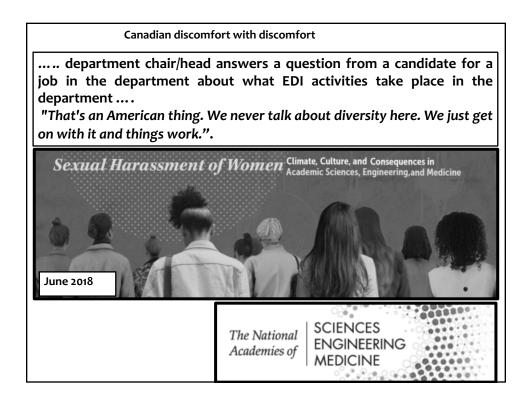
Nature of action will depend on who and where you are – member of dominant group, trainee, pretenure faculty, tenured faculty, academic leader, Faculty members (look for small, visible changes that will add up): Departmental level: Collect data. Set targets. Look at external appearance - are you a welcoming department to everyone. Imagery, photos, context, infrastructure? What about your seminar series – is it diverse? Include talks on EDI, prof development? Know your rights (tenure clock, leave), learn to self-advocate (POC, URMs). Know your institutional policies & requirements re: EDI Hiring committees: (Dr. Bryan Gaenslers lecture). Be rigorous! Review applications with a deep awareness of implicit bias – TAKE THE HARVARD IMPLICIT BIAS TEST. We are all biased (cf. Dr. Maydianne Andrade). Letters of reference & gendered+ language. "Fit" Learn to write letters of reference using neutral language. Teaching: Use diverse examples in teaching, text books, lectures etc. Consider EDI aware curricular offerings. Be aware in class, who is contributing, asking questions, what is the culture of your classroom? Learn to teach inclusively (most LTO offer training) Research: Lab webpage with EDI statement? Does your department? How do you select research students (e.g. "volunteers"), graduate student surveys re: climate, safety, etc. Scientific Community: Conference code of conduct, run inclusive conferences, committee representation, awards. Know ource Guide for Canadian Aboriginal Astronomy (May 2010) Prune Harris, Institute for Integrative Science & Health, Cape Breton Unive yourself











-- male prof (eng) who says he always hires girls in the lab because "they work harder and he can pay them less"

- department chair/head tells hiring committee "Don't just pick the candidate wearing the prettiest dress"

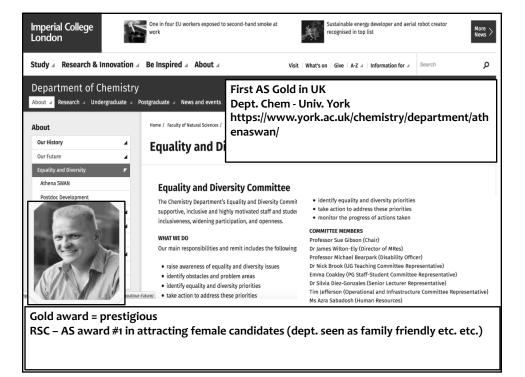
- Young gay man in tech hides his life because of tech-bro' homophobic comments, plus..

EDUCATION September 5, 2018 4:09 pm

Five sexual harassment investigations involving faculty 'ongoing' at the University of Manitoba

By Timm Bruch

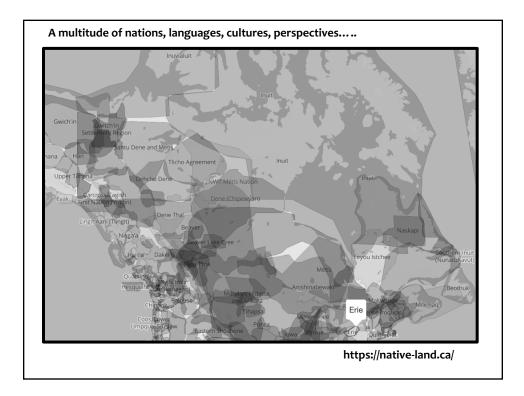
All the workshops, mentoring programs & science camps, etc. for women/UR groups in STEM will not change participation rates of women and UR groups in STEM unless the culture and workplace also increase accessibility by removing systemic barriers and bringing in accountability and consequences Evidence-informed, data-driven policy changes that address organizational, institutional, structural & systemic barriers to full EDI in STEM (<u>Tie to \$\$ to incentivize</u>) - Data (quan/qual) - Leading practices (UK, Aus, US) Leadership, education, intentionality, accountability, courage

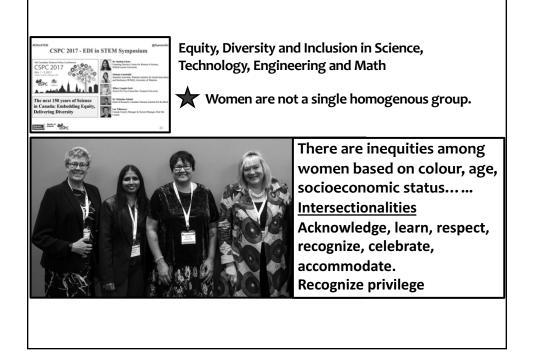


Integration & application of EDI principles in your community

Name it (lexicon of EDI, ask) Call it out (learn how, workshops, ask for them) Demand better (#accountability, institutional policies) Celebrate (+ve context, Soapbox Sci, ALD, IWED, LGBTSTEM etc.) Communicate (networks, socmedia, societies, listen) Community (allies, networks, societies) Copycats (role models, mentors) Champions (more imp. than role models, sponsors, mentors) Expect and prepare for pushback & defensiveness Take individual responsibility – this is on all of us

Awareness – Education – Action - Outcomes





Less emphasis on "getting girls interested in STEM". It is not their problem – it is our problem. We (adults, parents, employers, teachers, society) have

responsibility to start creating a world that welcomes everyone, a world that looks like a place where everyone belongs, a world that values all contributions, a world that lets everyone be themselves.

That means that we must get uncomfortable and we must do some hard work. It means employers changing policies. It means leaders being held accountable.

