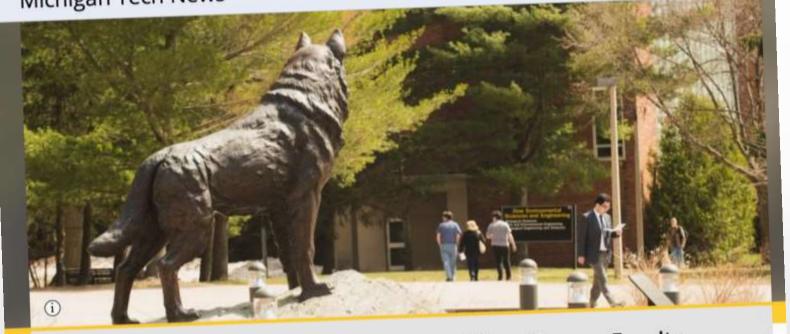
#### Michigan Tech News



## NSF Funds Program to Recruit and Keep Diverse Faculty

By Jennifer Donovan | Published 8:00 a.m., September 20, 2018

Comments (0)





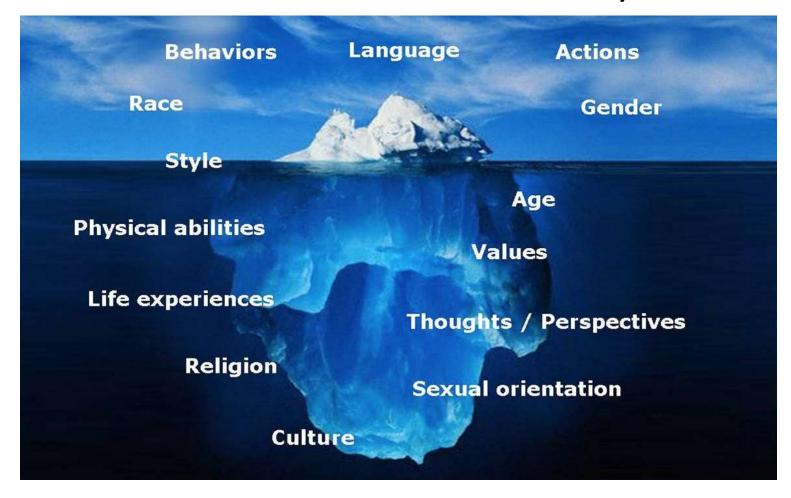
### ADVANCE Adaptation: AMP-UP Continuous Improvement Process to Transform Institutional Practices and Culture

Adrienne Minerick, Sonia Goltz, Patricia Sotirin, Andrew Storer, Audrey Mayer

**AMP-UP = Advanced Matrix Process for University Programs** 



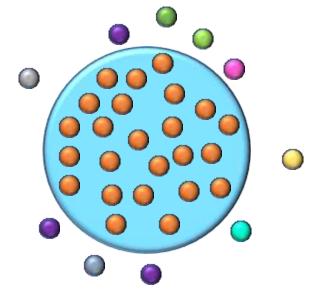
## Individual differences are not always visible...



....and differences enhance quality/richness of outcomes<sup>1-3</sup>

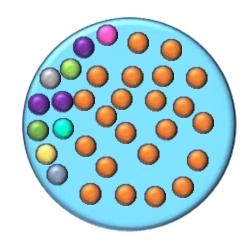


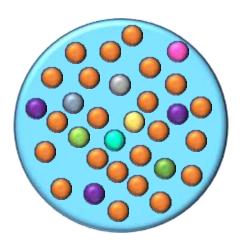
## Diversity does not = Inclusion



No Diversity (within organization)
No Inclusion

Diversity,
Poor Inclusion





Diversity
AND
Inclusion



### Diversity and Inclusion- Defined

- Diversity Individual differences
  - Race, ethnicity, gender, sexual orientation, socio-economic status, age, physical abilities, religious beliefs, political beliefs... etc.
- Inclusion behaviors and mindset
  - Promoting respect, belonging, leveraging the value and harnessing the power of diversity to the benefit of the organization

N.B.  $\rightarrow$  You can increase diversity, but without inclusion, it is not sustainable.



# Top Reasons Faculty Respondents Seriously Considered Leaving Michigan Tech

Reason	n	%
Low salary/pay rate	56	41.2
Interested in a position at another institution/ organization	49	36.0
Institutional support	49	36.0
Limited opportunities for advancement	43	31.6
Lack of a sense of belonging	42	30.9

## Request (Step #1)

- Ask that the University Senate revisit inclusion of existing policies
  - Diversity Council has been charged by the President to advise on these issues. Ask them to review policies with this lens.
- Ask that the University Senate form an Inclusion Committee to review new and revised policies with the inclusion lens.

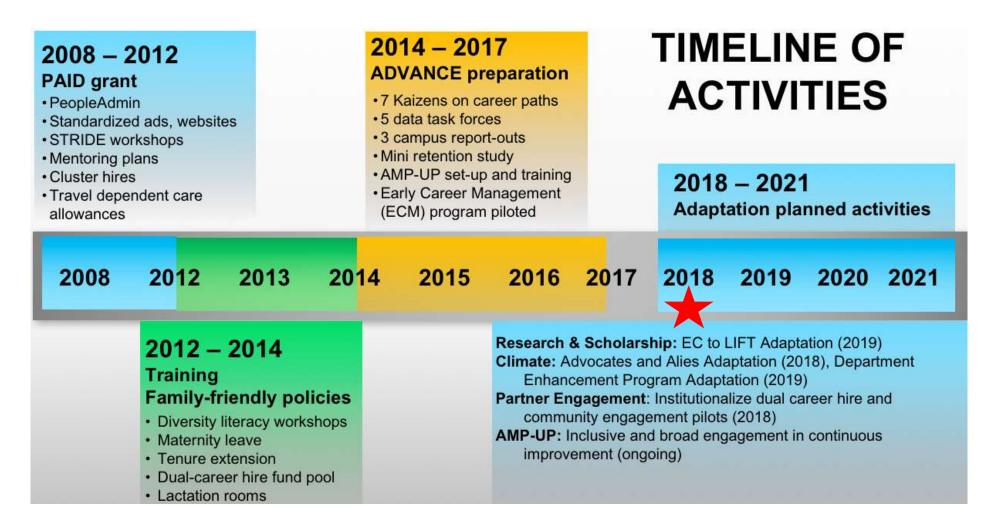
• Example (if needed). When maternity/paternity leave is requested, tenure extension is automatic. People then have to opt out to reduce the stigma of exercising it.



## Back up Slides

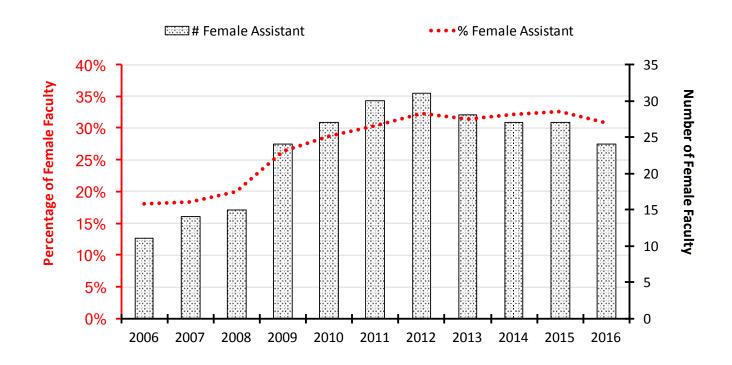


#### **Initiatives at Michigan Tech Over Time**



National Science Foundation awarded our team \$1,000,000 over 3 years to increase retention of women & intersectional individuals

#### **Previous ADVANCE Efforts**



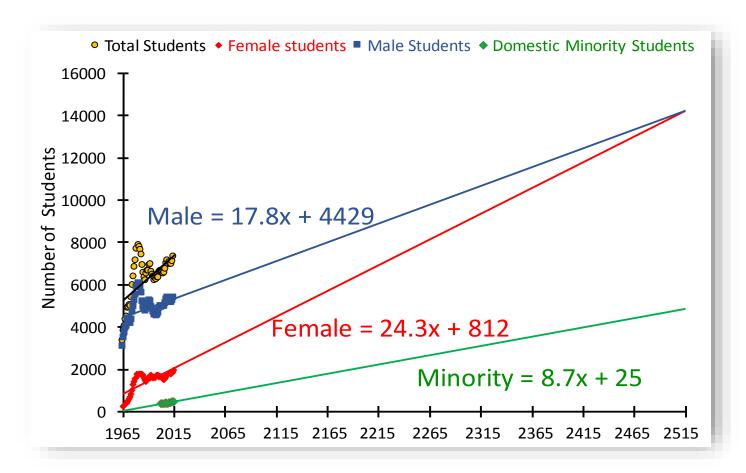
- Increase at Assistant Level
- Promotions not increasing Associate & Full representation
- → Retention

## STEM Proportion in 2017 23% 219 Men 65 Women



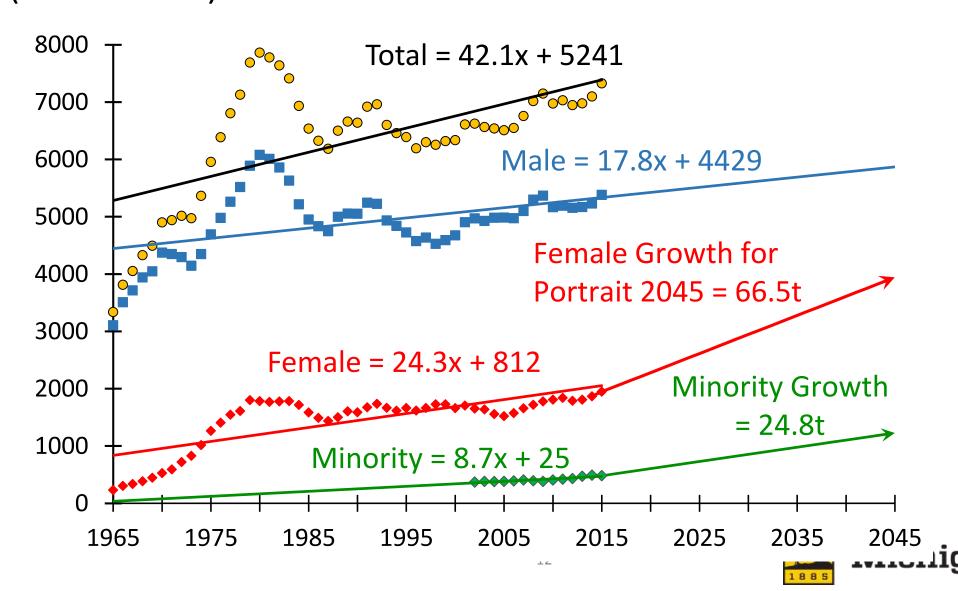
10

## At present growth rates, our student population will be 50% women in 507 years and 14% Minority in 270 years.

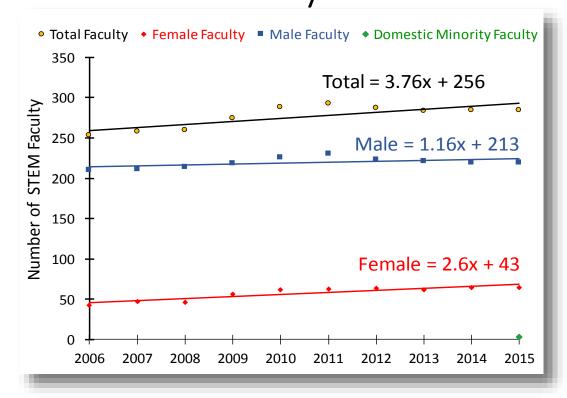


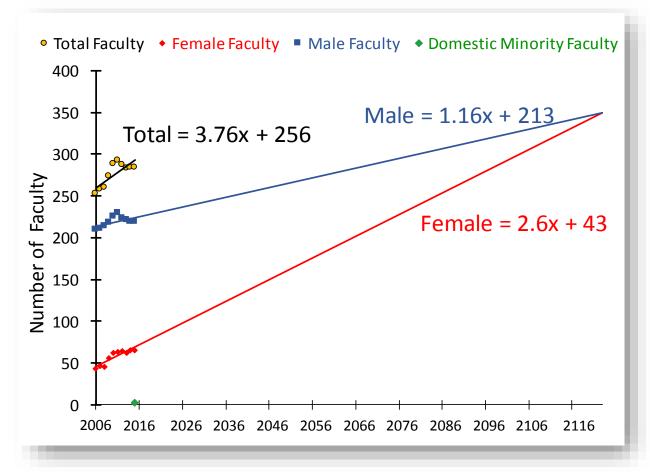


## Portrait 2045 sets a goal to attain 40% women by 2045 (students)



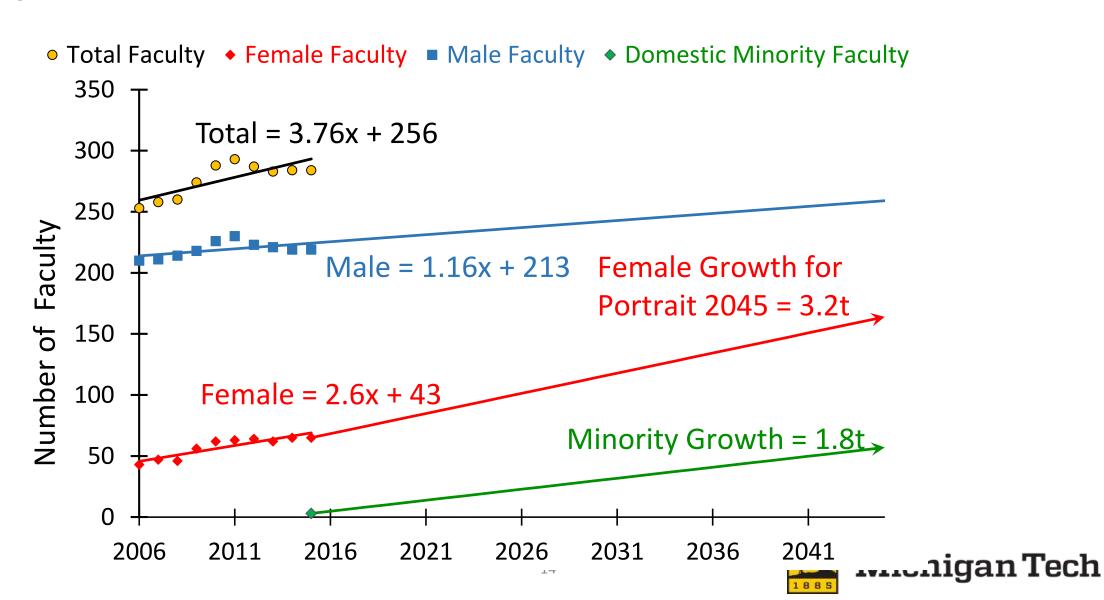
At present growth rates, our faculty population will be 50% women in 108 years







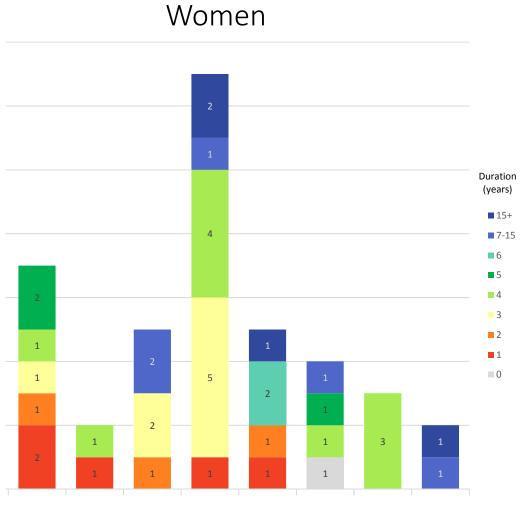
## Portrait 2045 with 40% women and >14% minority faculty is do-able!



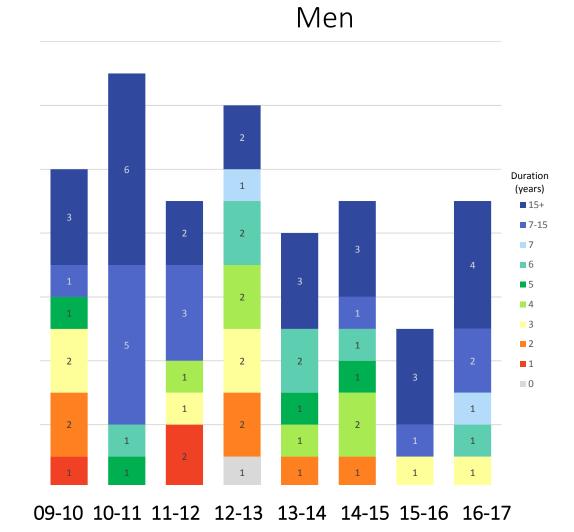
### Retention



#### Retention



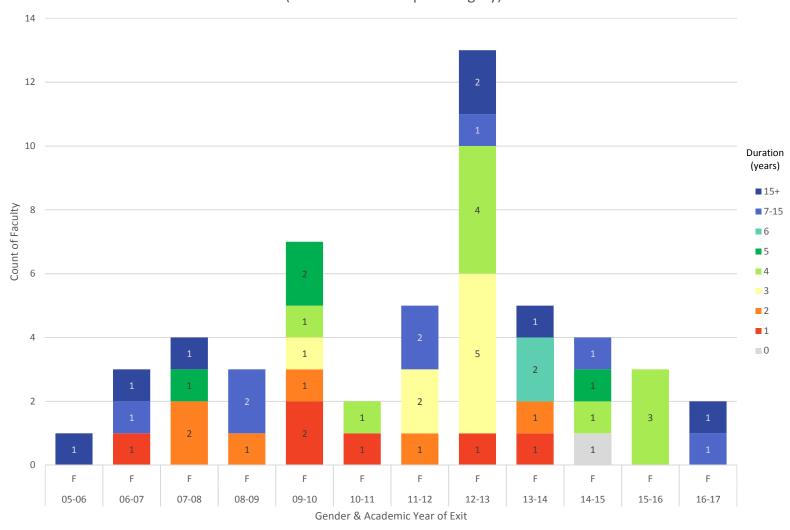
09-10 10-11 11-12 12-13 13-14 14-15 15-16 16-17





#### Retention - Women

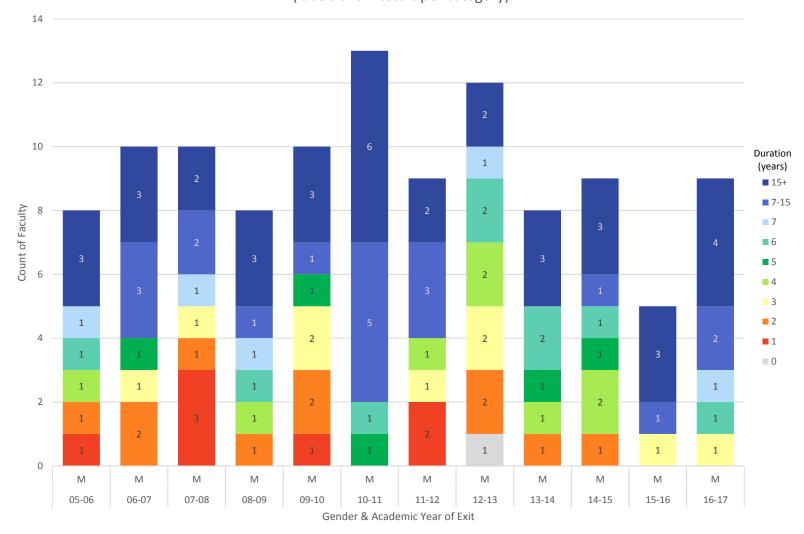
Female Faculty Attrition by Duration and Academic Year of Exit (labels show totals per category)





#### Retention - Men

Male Faculty Attrition by Duration and Academic Year of Exit (labels show totals per category)





## Mini-Retention Study\* (Qualitative)

#### **Primary Reasons for Leaving**

- Experiences of sexism in the workplace
- Dual career challenges
- Lack of research support
- Not feeling a sense of belonging
- Assistant Professor tenure-track pressures
- Lack of internal mobility

#### Secondary Reasons for Leaving

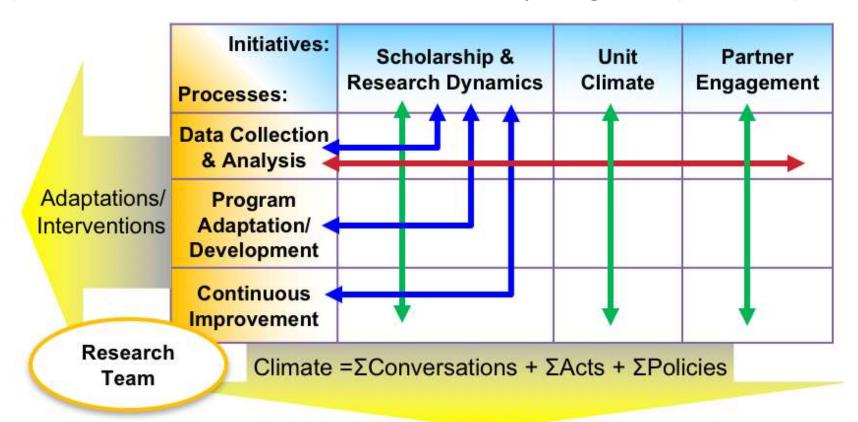
- Lack of clarity in the interview process
- Dissatisfaction with Houghton



<sup>\*</sup>Conducted by Center for Workforce Development, University of Washington

## ADVANCE Adaptations (2018-21)

1) Advanced Matrix Process for University Programs (AMP-UP)



## ADVANCE Adaptations (2018-21)

- 2. STRIDE faculty development programs (University of Michigan)
  - LAUNCH, LIFT, ongoing workshops/skits for education, publication of guides/materials.
  - Our Early Career Management Committees
- 3. Allies and Advocates program (North Dakota State University)
  - Restorative justice and broad engagement to change university culture
- 4. Department Enhancement Program (Iowa State University)
  - Qualitative and quantitative professional development for chairs to respond to intersectional inequities and cultivate positive climates.



## Example AMP-UP Success: Partner Engagement

Community engagement during interview pilot 2016-2017

- 5 searches participated
- 13 individuals (2 internals) were invited to bring a guest with them on the interview → 7 brought guests (64%)
- 11 (85%) met with community engagement team
- 5 individuals hired, 4 had partner/spouses (80%)
  - Our first choices accepted quickly!
- Pilot indicated there is a need and the community engagement pilot serviced that need.
  - Optional pilot continues--> some departments resist expense, logistics



## Early Career Management (ECM) Success

9 month span	New Faculty/Teams	Advocates
2015-2016*	9	18
2016	1	2
2016-2017	20	40
2017	3	6
2017-2018	15	31
Total	48	97



### **ECM Preliminary Results**

- Indicators of new faculty success include
  - Proposal submissions
  - Funding
  - Publications
  - Student progress

}	0-2 yea	ır

		1-3 year
--	--	----------

2015-2016 (Fall 2015 start- Jan 2017)	Time to submit first proposal (months)
ECM New Faculty	2.6
New Faculty	3.99



#### Present situation: Representation, Salary

#### Representation (see Figure 1A):

- At 23%, Michigan Tech's representation of female STEM faculty in 2016 is just above the national research institution average (3.6% of these were domestic underrepresented minorities; 1.1% were international)
- Promising hiring initiatives: women were 13% of applicants but 29% of hires in 2016
- Across all colleges and schools, female Assistant Professor numbers increased 2.2 times over 10 years (from 11 to 24)
- All female T/TT STEM faculty increased from 17.0% to 22.7% over 10 years

#### Salaries & Resources (see Figure 1B and 1C)

- Salaries of female assistant professors in comparison with their male peers have risen by 5% since 2008 (from 89% to 94%)
- Start-up packages are comparable within colleges or schools.

#### 3. Areas requiring improvements:

#### Representation:

- The slight growth in female Associate Professors (from 21 to 25 over 10 years) has not mirrored the growth in the Assistant Professor rank
- The number of female Full Professors has varied substantially (from 11 to 14, with a high of 17 in 2014)

#### Salaries

 Female Associate and Full Professors salaries have remained around 96% and 90% (respectively) of their male peers' salaries



#### Present: Promotion, Retention, Leadership

#### **Promotion**

• Women have higher promotion to Associate rates than men (95.1% vs. 91.7%)

#### Retention

• Female and male STEM faculty turnover rates are similar (~37% depart after ~4.7 years of service)

#### Leadership

• 4 of 7 deans are women, 2 of the 4 STEM deans are women

#### 3. Areas requiring improvements:

#### **Promotion**

- Women earn early tenure at a lower rate than men (18.2% vs. 21.7%)
- Women have lower promotion to Full rates than men (85.7% vs. 88.1%)
- Women take ~2 years longer to attain Full Professor rank (8.6 vs. 6.7 yrs)
- Standard deviations for women in promotion to Full are greater than for men (5.0 vs. 3.8) indicating much greater variation in experiences

#### Retention

- More tenure track women than men leave in year two, especially in the Sciences
- Fully 60% (14 of 26) of the female faculty in Engineering and Technology who received early tenure subsequently left compared to only 18% of the male faculty

Leadership (Women are underrepresented in mid-level leadership)

Women comprise 2 out of 16 STEM chairs (1 in Cognitive and Learning Science, 1 in Civil and Environmental Engineering)



# Top Reasons Staff Respondents Seriously Considered Leaving Michigan Tech

Reason	n	%
Low salary/pay rate	177	52.8
Limited opportunities for advancement	152	45.4
Tension with supervisor/manager	99	29.6
Lack of a sense of belonging	89	26.6
Increased workload	88	26.3

# Top Reasons Why Graduate Student Respondents Seriously Considered Leaving Michigan Tech

Reason	n	%
Lack of a sense of belonging	25	29.1
Campus climate was not welcoming	22	25.6
Lack of social life at Michigan Tech	22	25.6
Personal reasons	17	19.8
Financial reasons	15	17.4

# Top Reasons Undergraduate Student Respondents Seriously Considered Leaving Michigan Tech

Reason	n	%
Lack of a sense of belonging	134	39.1
Financial reasons	123	35.9
Personal reasons	110	32.1
Coursework was too difficult	109	31.8
Lack of social life at Michigan Tech	106	30.9

## http://www.mtu.edu/advance/



