

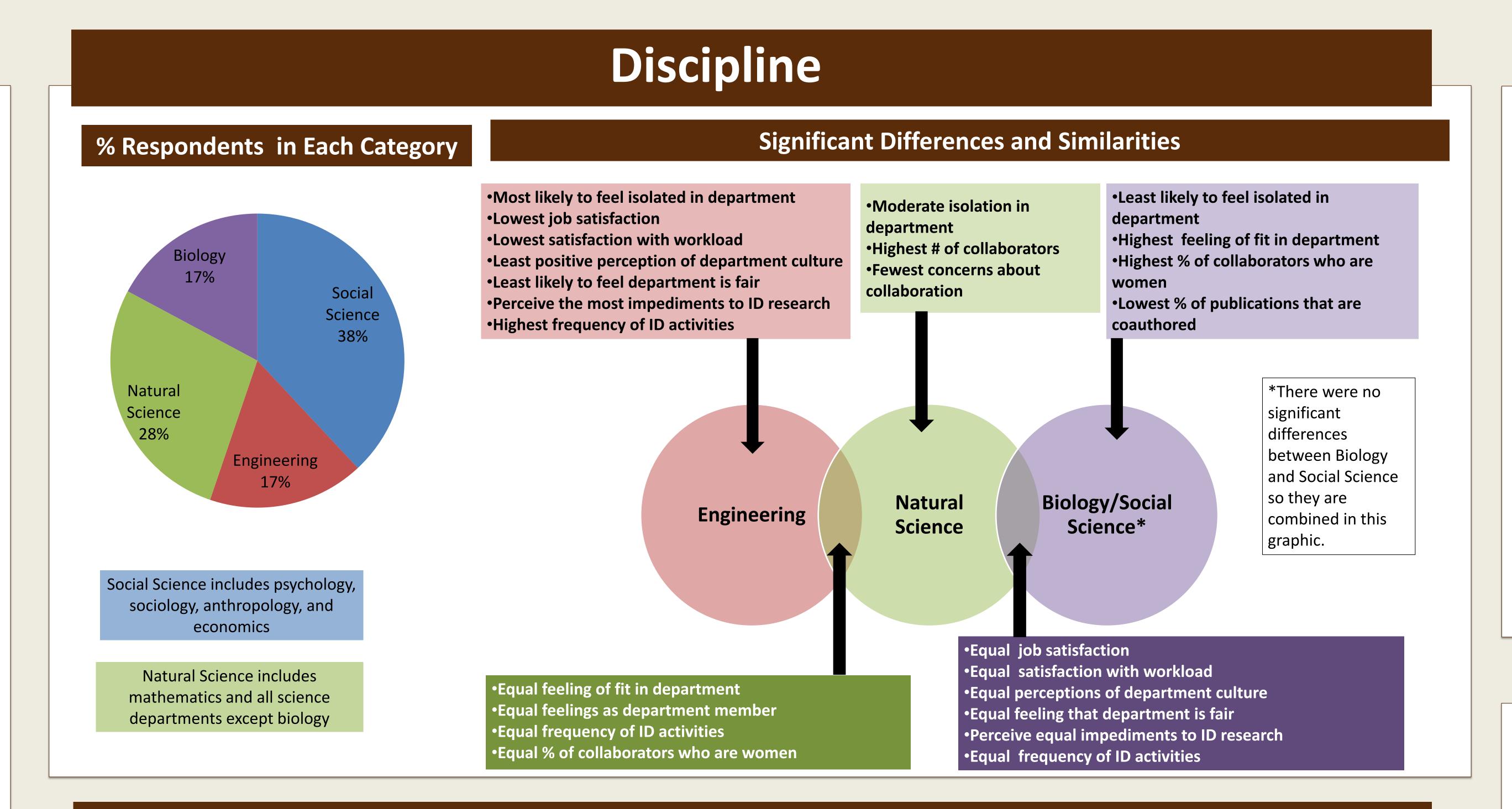
CLIMATE CONTROL? CONTEXTUAL FACTORS THAT INFLUENCE WORK SATISFACTION AND RESEARCH ACTIVITIES OF WOMEN STEM FACULTY

Jackie Krasas PhD, Diane Hyland PhD, Wendy Abrantes MA, and Marci Levine PhD



Abstract

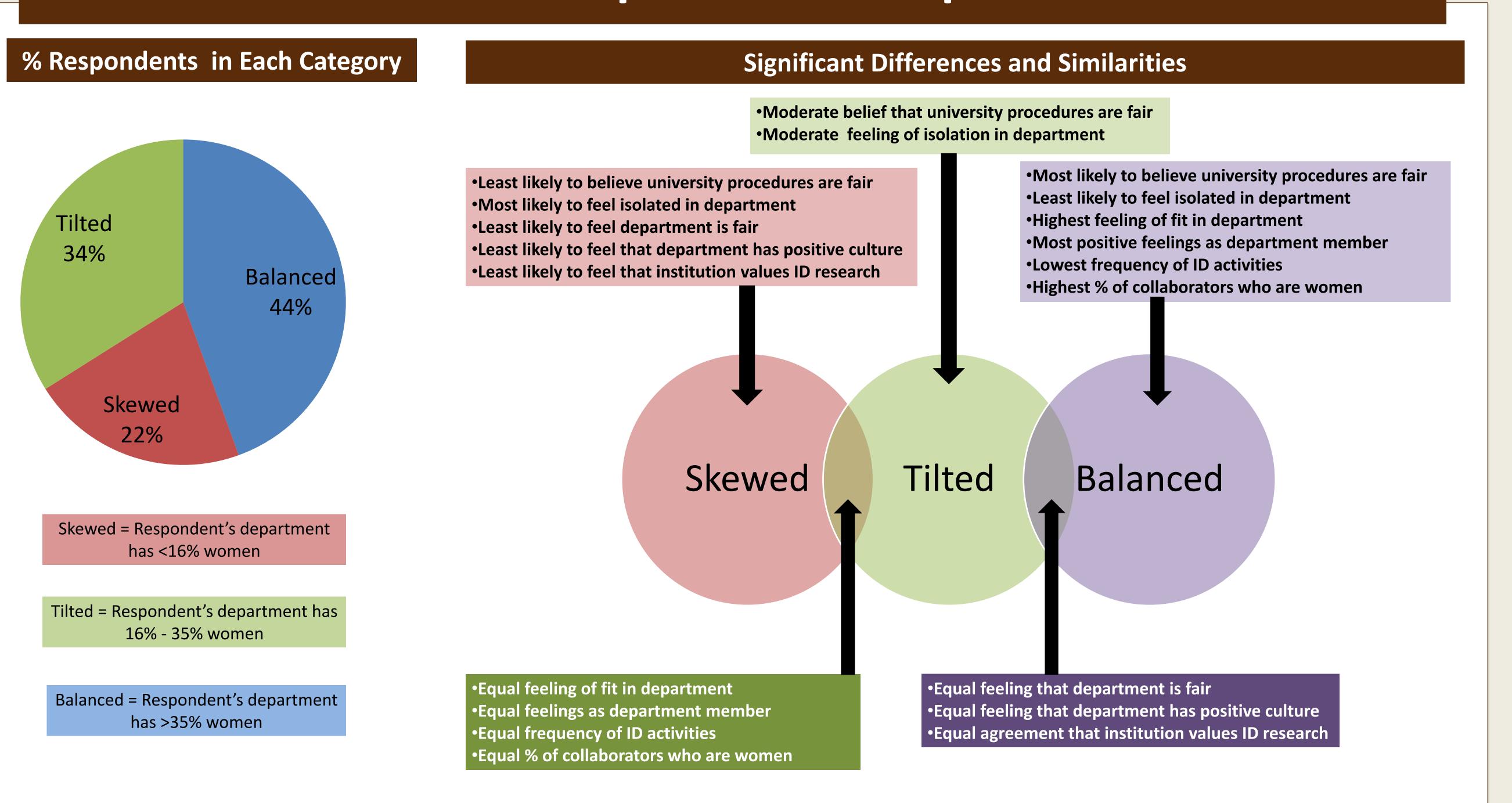
- STEM women faculty (N=168) from ten private, mid-sized, research universities completed a survey assessing perceptions of work environment and involvement in interdisciplinary (ID) and collaborative research.
- In order to move beyond gender comparisons and essentializing conceptions of women's preferences, we follow a more contextual approach that focuses on variability among STEM women.
- We examined contextual factors operating at these levels:
- Individual level
- Discipline
- Parental status
- Departmental level
- Composition % of women faculty in home department
- University level
- Availability of policies/programs to support work life balance
- Findings indicate that factors such as discipline, the gender composition of the department, and availability of work-life balance policies and programs play a major role in work satisfaction, department climate, and perceptions of the fairness and equity of university procedures. These factors play a minor role in perceptions of and involvement in ID and collaborative research.



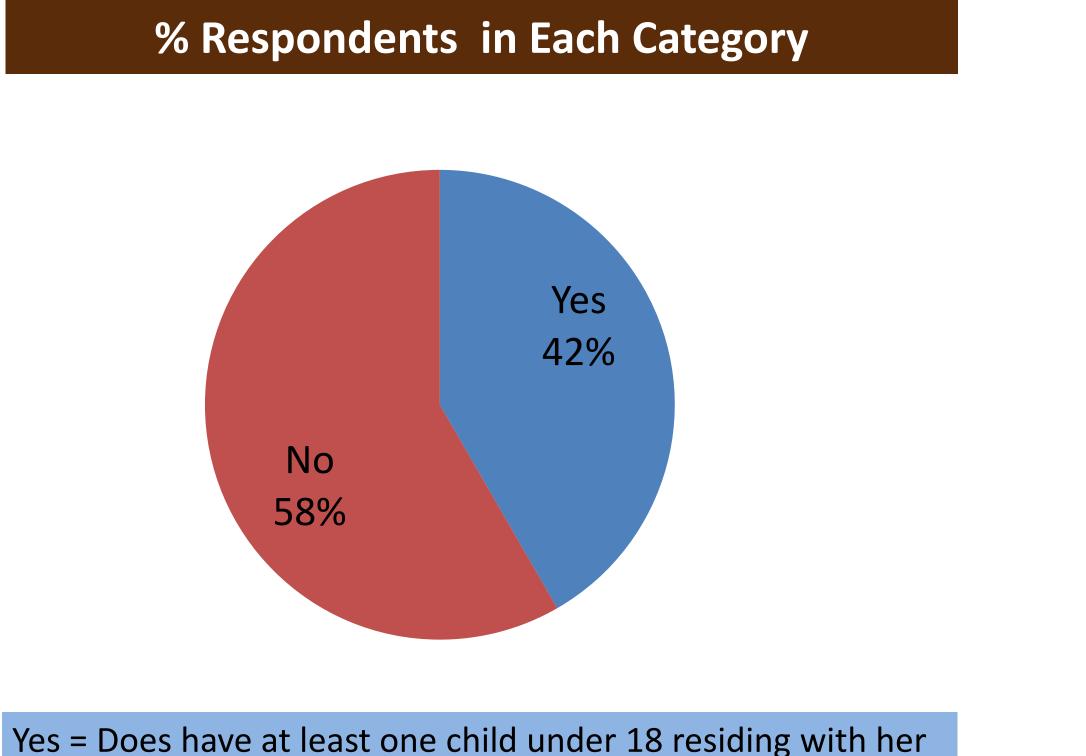
Association of Discipline & Gender Composition of Department

	Engineering	Natural Science	Biology	Social Science
Skewed	64%	29%	0%	7%
Tilted	18%	56%	64%	11%
Balanced	18%	15%	36%	82%

Gender Composition of Department



Parental Status



No = Does not have a child under 18 residing with her

Significant Effects

- Women who have children were significantly less satisfied with workload than women without children.
- Satisfaction with workload was measured by a 4-item scale which included satisfaction with workload, time available for keeping current in their field, work/life balance, and balancing of teaching, research, and service responsibilities.

Work-Life Balance Policies/Programs

Method

We examined web pages to determine availability these policies/programs:

- Dual career hiring program
- Part-time appointments for tenure track faculty
- Tenure clock extension for parenthood
- Paid parental leave
- On-site child care
- Emergency/back-up child care

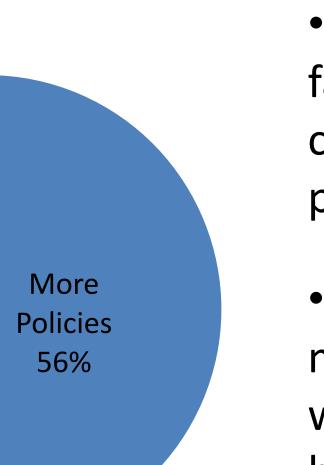
Institutions were categorized into two groups:

- More policies/programs
- Fewer policies/programs



Fewer

44%



Significant Effects

- Job satisfaction was higher for faculty in institutions with more compared to fewer policies/programs.
- •Job satisfaction is a 5-item measure of degree of satisfaction with: current faculty position, how career has progressed, teaching environment, resources for research, and opportunities for collaboration.

Conclusions & Implications

- Important to look at differences among STEM women.
- Contextual factors were found to play a major role in work climate/satisfaction and a minor role in perceptions of and involvement in ID and collaborative research.
- Parent status does relate to degree of workload stress.
- Work family policies do relate to overall job satisfaction.
- Tokenism in the department appears to be most strongly related to feelings of isolation and perceptions of fairness and equity at the institution level.
- Disciplinary differences appear to be most strongly related to perceptions of department culture and general job satisfaction measures.
- However, with the current data, tokenism and discipline are confounded.
- The Lehigh ADVANCE research team is conducting follow-up ethnographic interviews to understand to what extent experiences of STEM women are shaped by tokenism, disciplinary culture, and institutional practices.