

**Meeting:** 1003, Atlanta, Georgia, SS 2A, AMS-MAA-MER Special Session on Mathematics and Education Reform, I

1003-97-1617      **Mary Frank Fox\*** ([mary.fox@pubpolicy.gatech.edu](mailto:mary.fox@pubpolicy.gatech.edu)), School of Public Policy, Georgia Institute of Technology, Atlanta, GA 30332-0345. *Gender, Graduate Education, and Academic Careers in Science.*

In improving participation and performance of women as an under-represented group in science, it is important to comprehend the social complexity, or features, of the environments of graduate education, as they may vary for women and men students.

Drawing from a national survey of (3800) women and men doctoral students in five science and engineering fields, and site visits to 22 of the departments in which these students were located, this presentation concentrates upon characteristics and practices of departments, research teams, and advisement in doctoral education—and students reported experiences within them. The findings encompass matters of inclusion, nuances of training and advising, and evaluative practices as they operate for women and men students. They point to implications of different opportunities to participate in research groups, to collaborate, and to gain significant roles in the scientific enterprise. (Received October 05, 2004)