

Report to the Unidata Policy

Committee

October 21, 2008

Clifford Jacobs

National Science Foundation

Outline



Competition for the
management of NCAR



Budgets



Trends in Geosciences

Competition for the management of NCAR



Long process – more than three years



Comments from the review panel :

- recommended “...unanimously and without reservation that NSF make an award...” to UCAR for management and operation of NCAR
- NCAR is a world leader and would be central to Earth system science

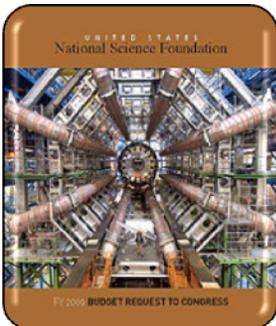
Challenging Budget Times

FY 2008



- Initial 10.0 % increase approved by the House, and the initial 10.8 % increase approved by the Senate
- Omnibus bill passed with 1% increase for NSF in Research and Related
 - ATM received 0% increase
 - Used Division's flexible funds and favored NCAR, but added priorities

FY 2009



- President's request 13.6% increase for NSF
 - ATM 13.6% increase
 - \$9M increase for NCAR

An Uncertain Future



Continuing Resolution

- All consideration of appropriation bills is on hold until after the election
 - CR until March 6, 2009



Possible Outcomes

- Close to President's request
 - House and Senate Bills
- CR for all of FY 2009
- Budget reduction in response to difficult times

Geosciences compared to NSF 1998-2007
(research grants only)

Trends

NSF GEOSCIENCES

NSF GEO Staff (FY 2008)

- Managerial Staff: 15
- Science Staff: 70
- Administrative Staff: 37
- Technical Staff: 5

GEO Budget (FY 2007)

- Total: \$745.85
- ATM: \$227.44
- EAR: \$152.83
- OCE: \$308.76
- GEO-wide: \$56.8

GEO Budget (FY 2008)

Total (est.): \$752.66

GEO External Community (FY 2007)

- Principal Investigators: 1,243
- Co-PI's: 709
- Post-doctorates: 265
- Graduate Students: 1,109
- Undergraduate Students: 647

Funding Profile (FY 2007)

- Competitive Proposals: 3,804
- Competitive Awards: 1,038
- Funding Rate: 27%

Increasing GEO Diversity by “Degrees”

Bachelor's Degrees

	1995	2004
Sci & Eng	363,463	436,472
Women	171,106 (47%)	221,846 (51%)
Minorities	50,265 (14%)	74,834 (17%)
GEO	4,405	3,853
Women	1,500 (34%)	1,622 (42%)
Minorities	174 (4%)	227 (6%)

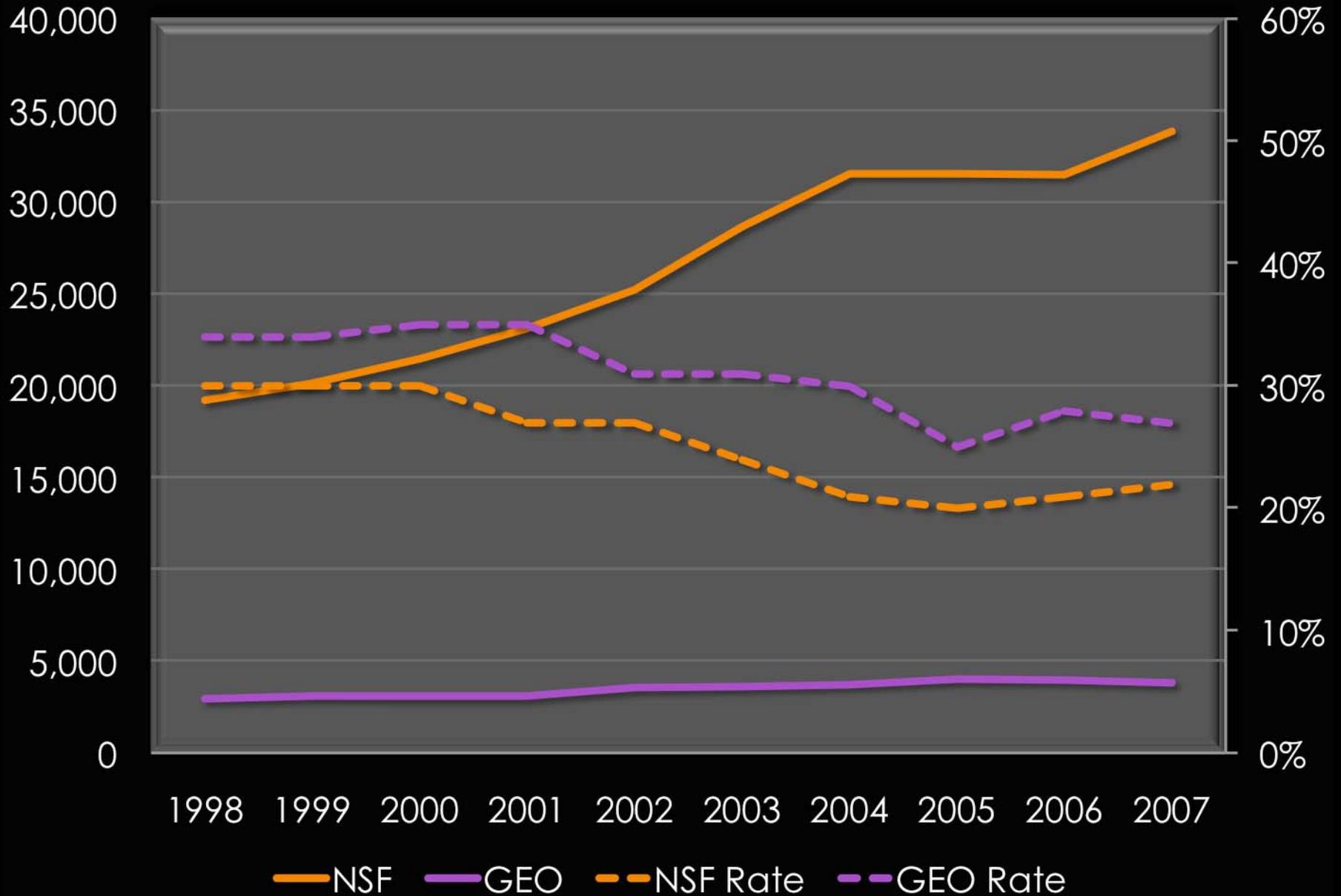
Doctorates

	1995	2004
Sci & Eng	18,997	15,721
Women	6,914 (36%)	6,842 (44%)
Minorities	1,191 (6%)	1,522 (10%)
GEO	526	426
Women	119 (23%)	166 (39%)
Minorities	11 (2%)	22 (5%)

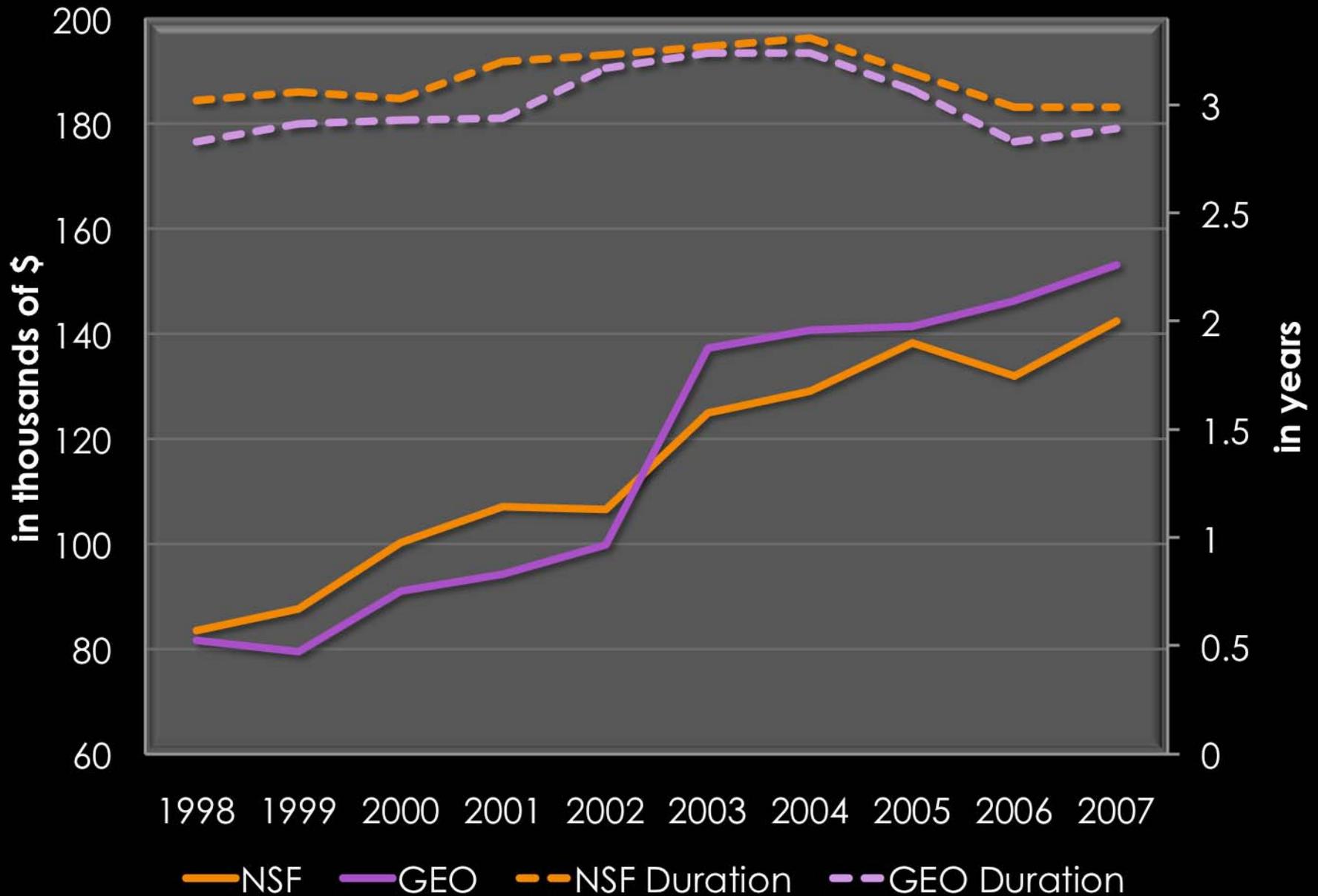


Note: Data are for U.S. Citizens and Permanent Residents. Source: NSF, Division of Science Resources Statistics.

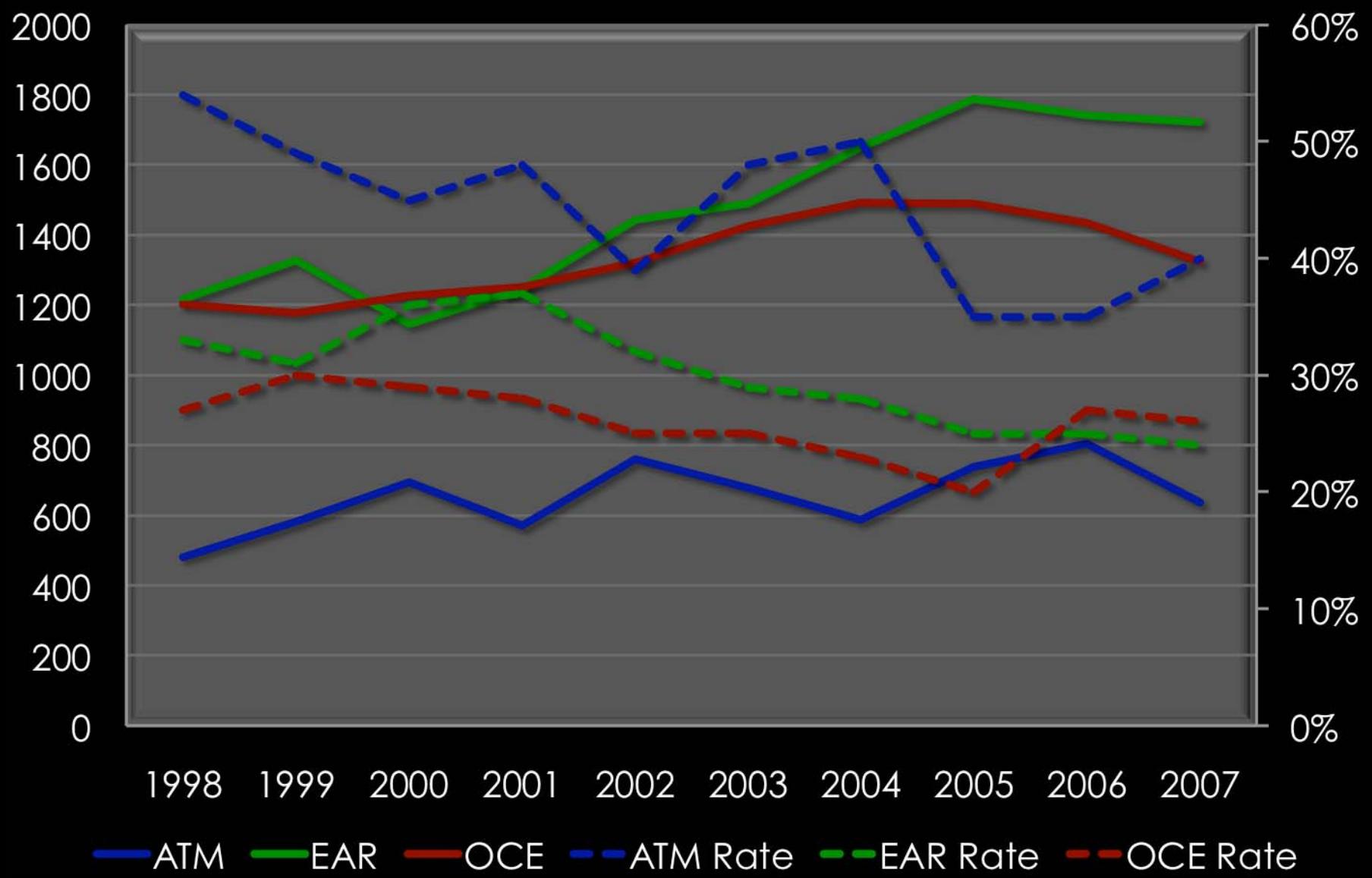
Trends in # of Proposals & Funding Rate



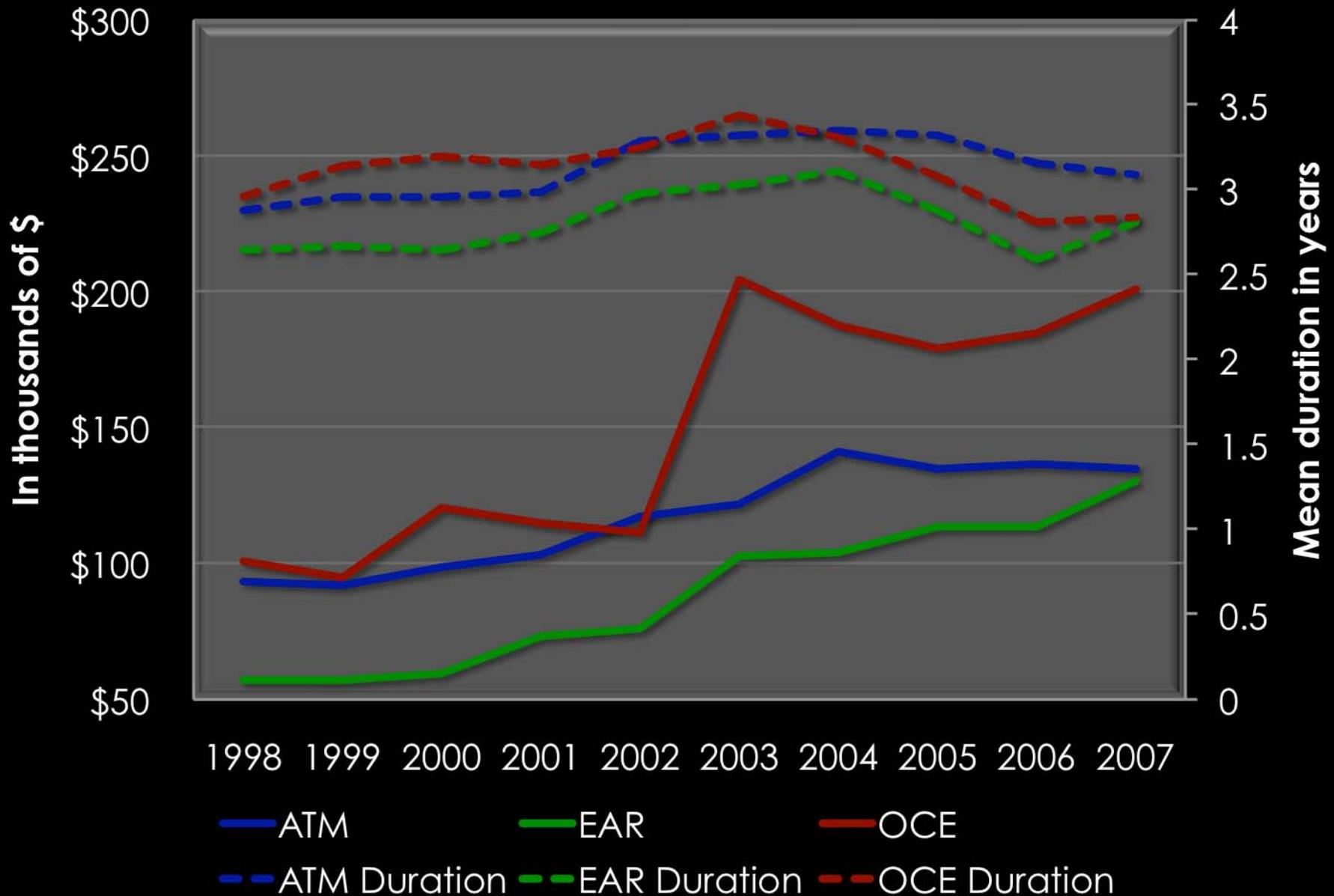
Trends in Average Award Size and Duration



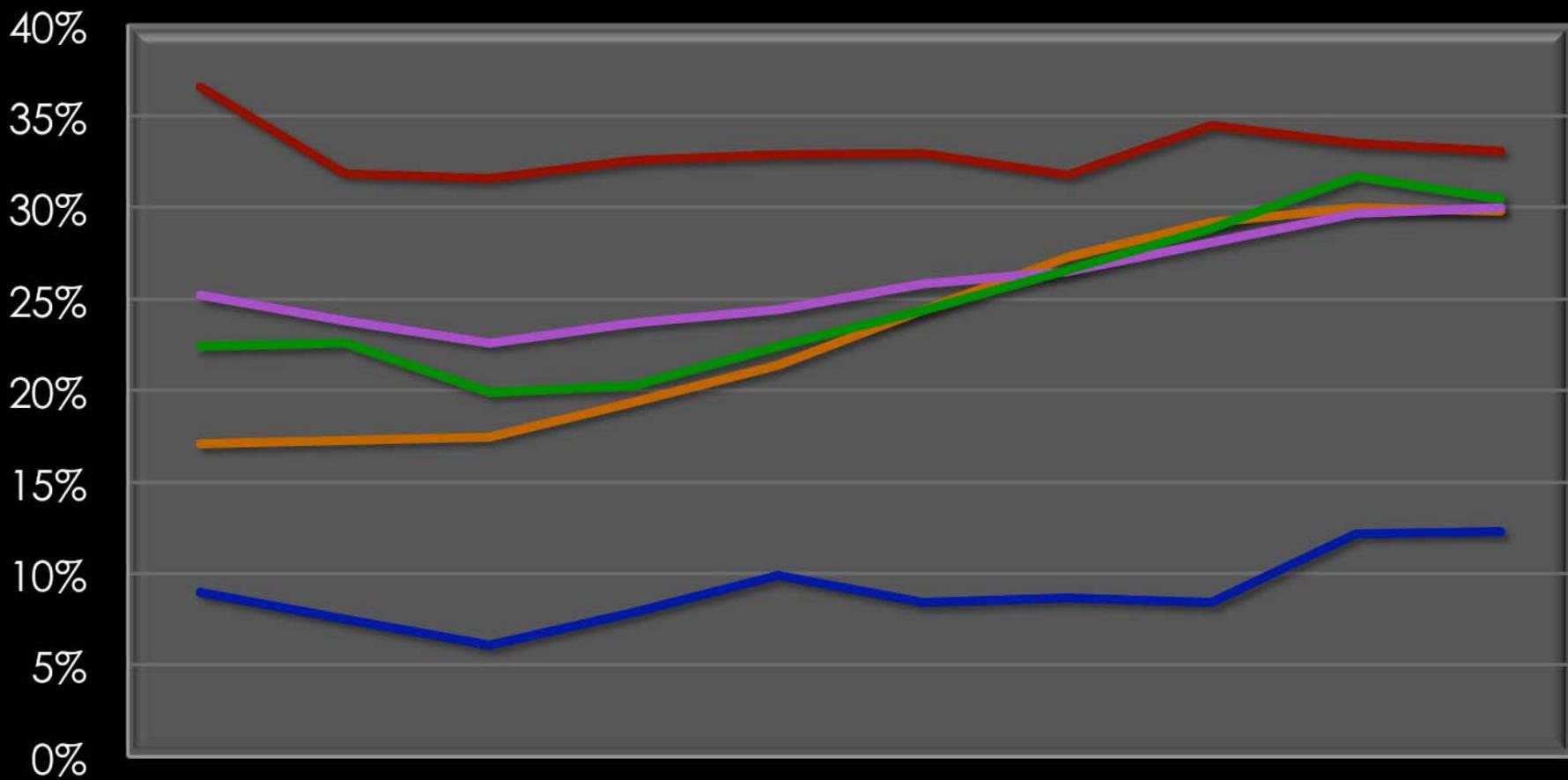
Trends in # of Proposals and Funding Rate by GEO Divisions



Trends in Average Award Size and Duration by GEO Division

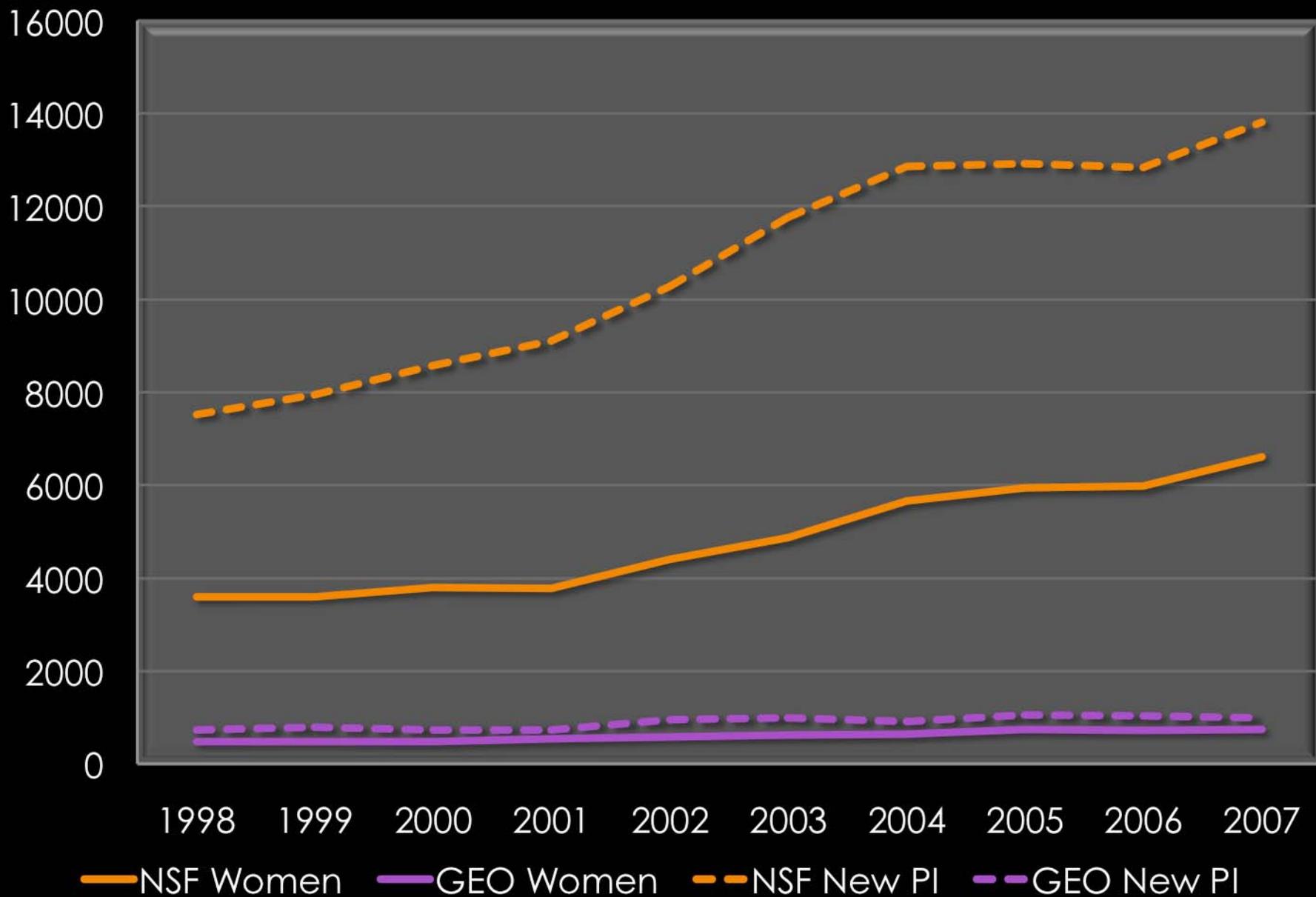


Percentage of NSF PIs with 3 or more Proposals to 1 Award

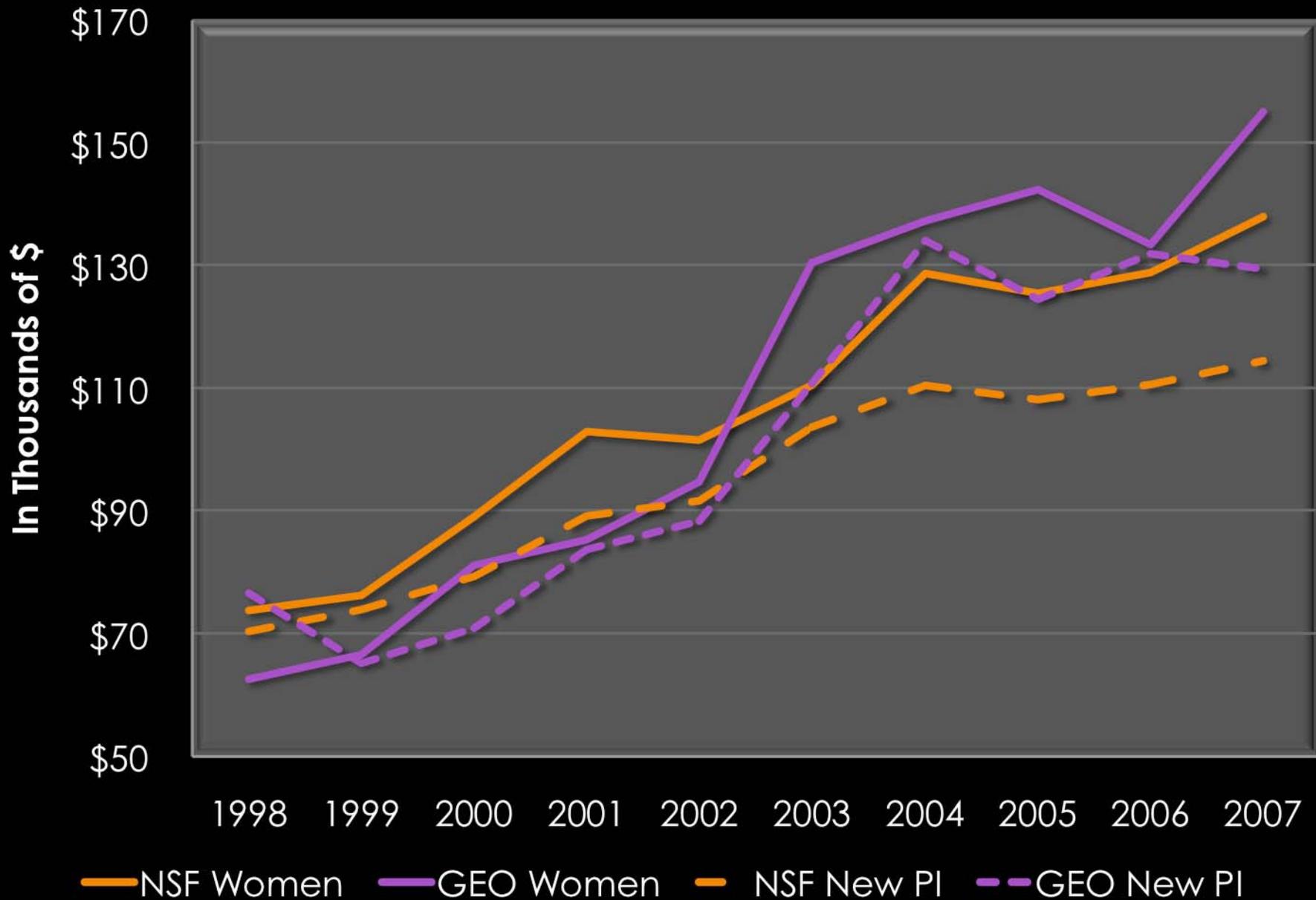


— NSF — GEO — ATM — EAR — OCE

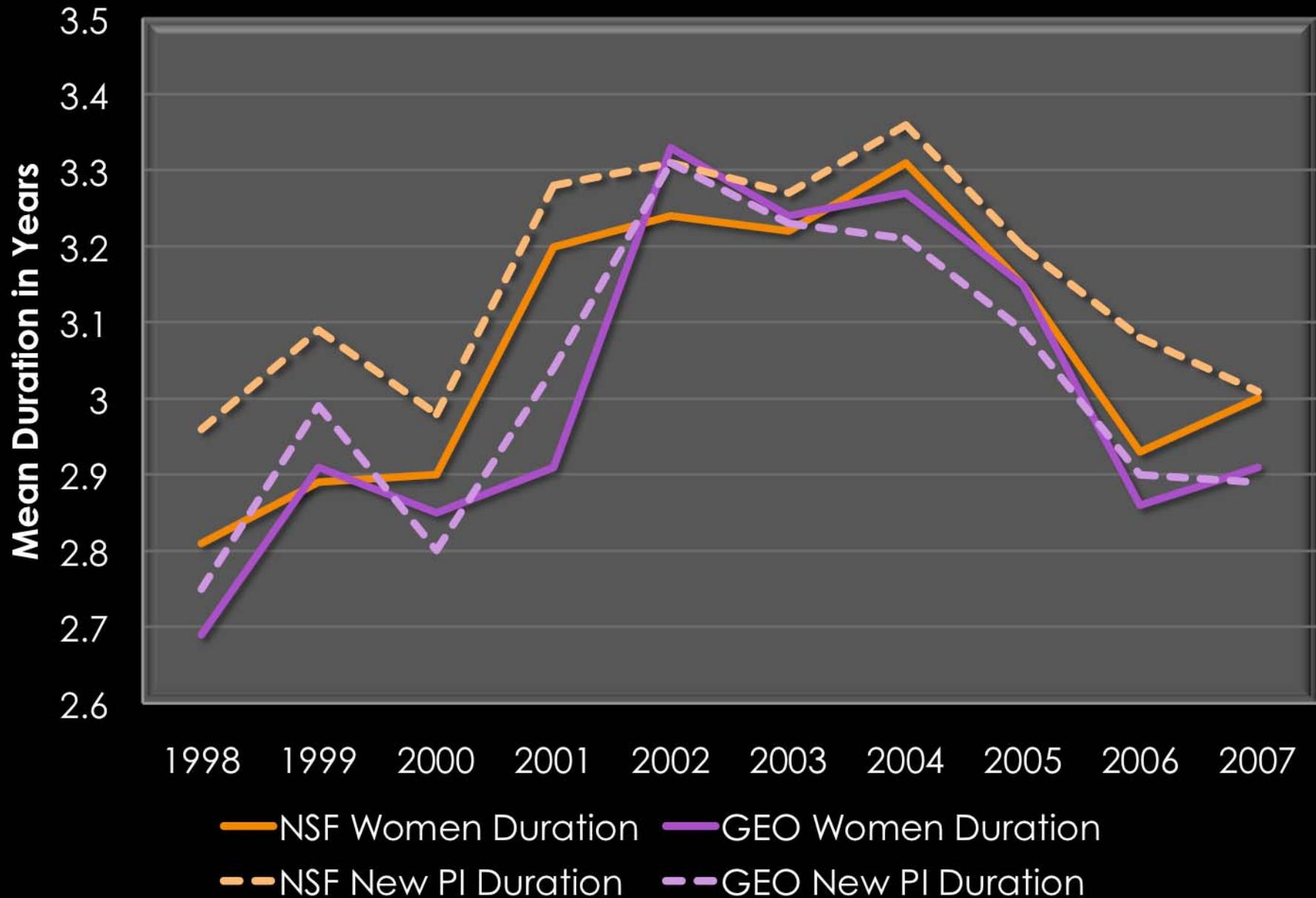
Trends in # Proposals for Women and New PIs



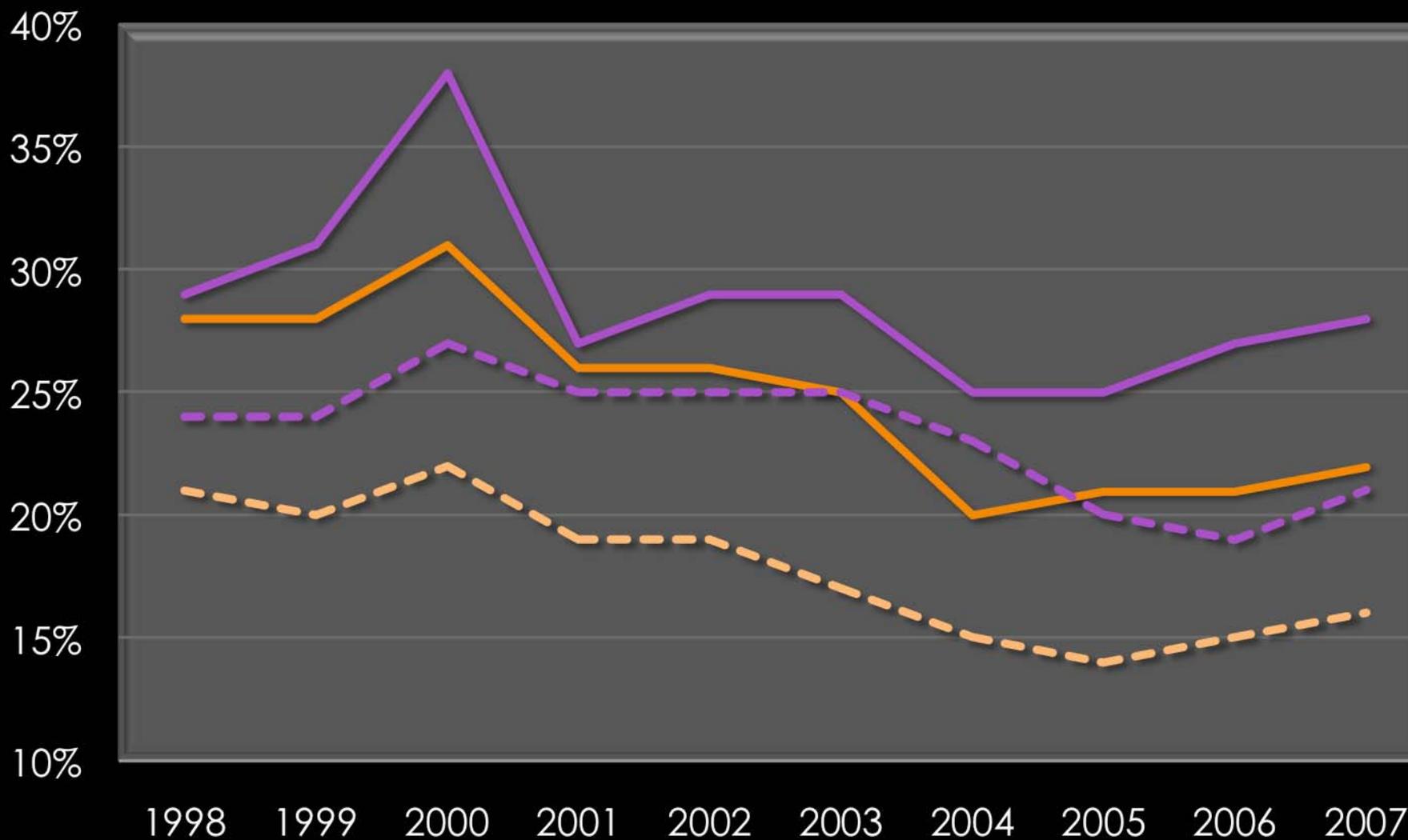
Trends in Average Award Size for Women and New PIs



Trends in Average Duration for Women and New PIs

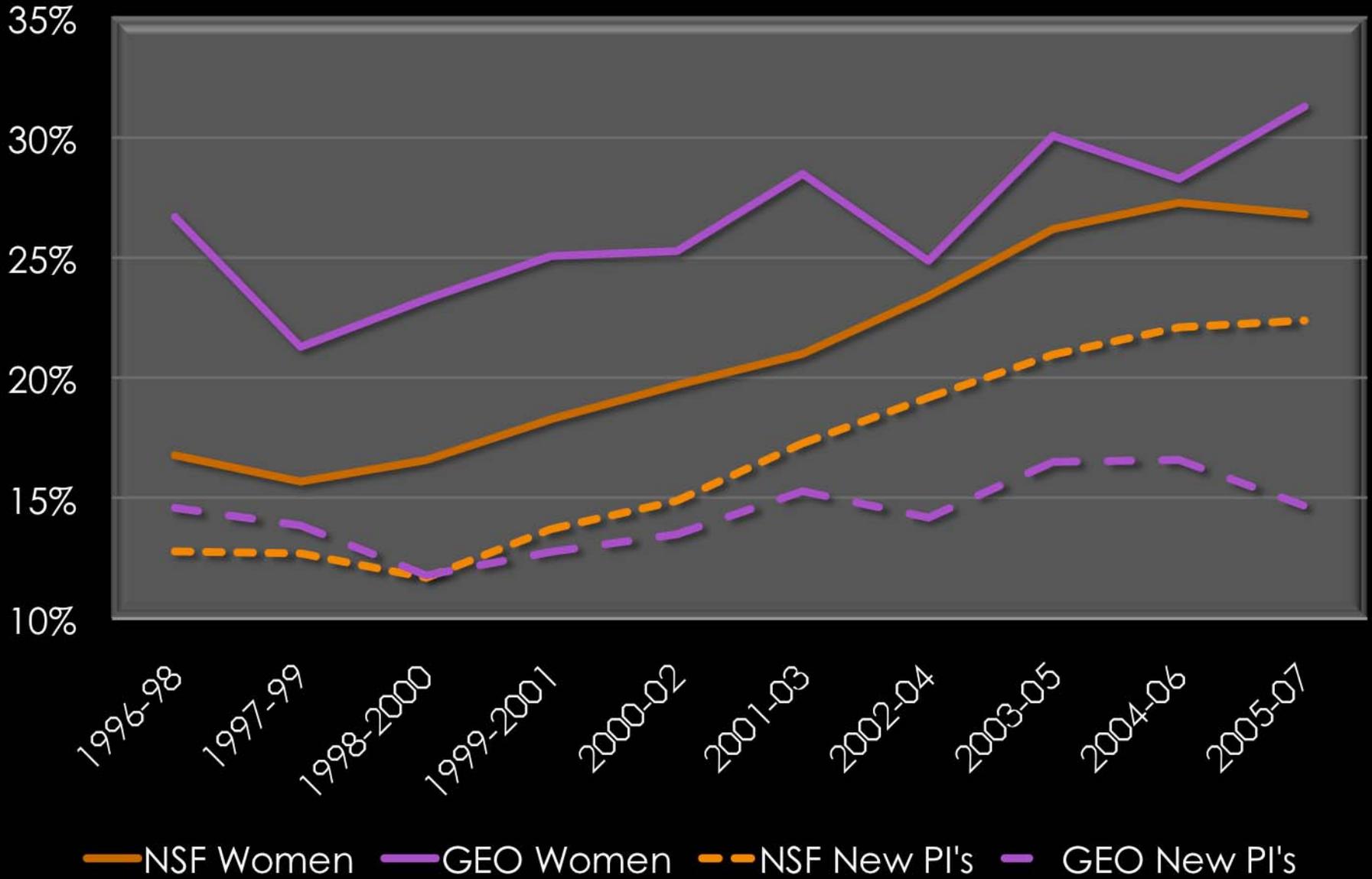


Trends in Funding Rate for Women and New PIs



— NSF Women Rate — GEO Women Rate
- - NSF New PI Rate - - GEO New PI Rate

Trends in NSF PIs with 3 or More Proposals to 1 Award for Women and New PIs



Trends in NSF PI Funding Rate for Women and New PIs



Questions and/or Comments