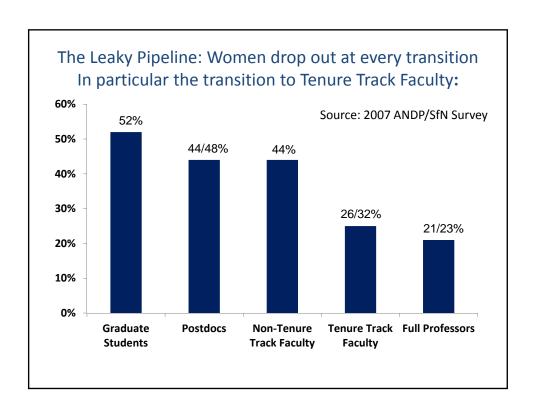


Society for Neuroscience Professional Development Committee

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Growth of women neuroscientists in tenure- track faculty positions is slow (% total)									
Year	Grad Student	Postdoc	Non- Tenure Track	Tenure Track	Asst. Prof.	Assoc. Prof.	Full Prof.		
1986				15	23	20	9		
1991					27	22	13		
1998				24	32	27	19		
2000	47	40	43	21	30	26	14		
2003	50	42	43	25	33	28	21		
2005	52	41	38	25	32	27	21		
2007	52	44	44	26	36	28	21		
2009	54	37	44	29	34	31	26		
2011*	57	49	50		42	35	28		

Additional Findings from 2011 SfN Survey

- Women represent only 19% of department heads
- 41% of adjunct faculty are women
- 44% of "self-employed" individuals are women

LOWER REPRESENTATION OF WOMEN AT DIFFERENT CAREER LEVELS IS NOT UNIQUE TO NEUROSCIENCE (% total)

Discipline/Field	Ph.D.	Post-Doc	Total Faculty
Neuroscience (1)	52	44	26/32
Physiology (2)	48	44	23
Chemistry (3)	-	-	14
Life Sciences (4)	49	40	32
Doctoral Univ (5)	-	-	30

- (1) = ANDP/SFN Data
- (2) = Association of Chairs of Departments of Physiology 2007 Survey (The Physiologist 51:87, 2008)
- (3) = Chemical and Engineering News 2006 Survey (C&EN 84:58, 2006)
- (4) = NSF Survey of Earned Doctorates 1998-2005; Survey of Doctoral Recipients 1973-2006
- (5) = American Association of University Professors Faculty Equity Indicators 2006

- Why has the representation of women at senior rank and leadership positions in the professorate remained low at 28% female full professors and 19% department heads?
- Not due to a failure to recruit at the graduate student level.
- A disproportionate number of women graduates fail to secure tenure track positions.
- Fewer women are promoted from Asst. Prof to Assoc. and Full Professor.
- The IWIN (Increasing Women in Neuroscience) Workshops designed to enhance recruitment, retention and promotion of women faculty and underrepresented minorities.

Status of Minorities in Neuroscience (% US Citizens/Residents; ANDP)															
Predoctoral Postdoctoral Faculty															
Survey Year	91	98	03	07	09	91	98	03	07	09	91	98	03	07	09
Asian American	38	42	41	44	38	53	50	50	51	45	64	61	66	63	64
Hispanic	32	25	30	27	32	25	10	18	18	22	22	20	17	20	22
African American	22	20	18	18	21	12	32	21	14	16	11	7	8	8	7
Native American	-	8	1	4	2	-	4	0	6	3	-	5	0	2	1
Other	8	5	10	7	7	10	4	4	11	18	3	7	9	7	6
Percent Total US	11	22	20	25	23	10	21	20	27	18	6	7	9	11	13

Further Analysis of the 2009 CNDP Survey Data

"...the U.S. federal government places special emphasis on African-Americans, Hispanic Americans, Native Americans, and Pacific Islanders among members of U.S. racial and ethnic minorities because they are under-represented in academia. Thus, it should be noted that when just these groups are considered (i.e., Asian-Americans are excluded), their representation in the 2009 survey is reduced to only 5% of tenure-stream faculty members who are U.S. citizens (4% of all tenure-stream faculty members)."

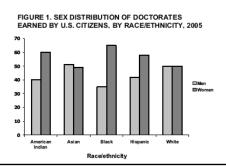
Ethnicity Findings in the 2011 SfN Survey (%)

	PhD Student	Postdoc	Non- Tenure Track Fac	Asst Professor	Assoc. Professor	Professor
African- American	4	2	2	2	1	1
Asian	16	27	25	23	11	7
Caucasian	65	56	63	64	78	84
Hispanic	5	6	3	6	5	3
Native American	1	0 (n=3)	0	0 (n=1)	0	0 (n=2)
Pacific Islander	0 (n=4)	0 (n=5)	0 (n=1)	0	0	0 (n=1)
Other	3	3	1	2	1	1
No answer	6	5	6	3	4	4

NUMBER OF FEMALE UNDERREPRESENTED MINORITY FACULTY AT "TOP 50" SCIENCE AND ENGINEERING DEPARTMENTS (FY2002)

Physical Sciences & Engineering	Black Females	Hispanic Females	Native American Females
Chemistry (FY2003)	2	5 ¹	1
Engineering	14	8 ²	0
Total	16	33	1
*URM female "full" professor	0	10	0
Social Sciences & Life Sciences			
Social Sciences	63 ¹⁵	25 ⁵	0
Psychology	22 ³	26 ⁵	3
Biological Sciences	91	13 ²	0
Total	94	53	3
*URM female "full" professor	19	12	0

Superscript indicates number of URM female "full" professors within a discipline. Source – (Nelson, 2005)

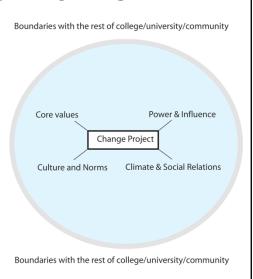


From 2009 CNDP Survey Conclusions

"At the most recent rate of increase (i.e., only 5% in the past 11 years), it will take four decades before women comprise 50% of the tenure-stream faculty members in neuroscience unless graduate programs become even more committed than they now are to a policy of gender equality in their faculty. A similar statement can be made regarding members of underrepresented U.S. racial and ethnic minorities among faculty in graduate neuroscience programs."

ORGANIZATIONAL CHANGE

- CORE VALUES
- **•POWER & INFLUENCE**
- •CULTURE & NORMS
- •CLIMATE/SOCIAL RELATIONS
- **•BOUNDARIES & CONTEXT**



Core Values: what activities count? How are priorities organized?

Curriculum – how determined? How is teaching assigned? What is valued?

Are members of major sub-disciplinary divisions all equally valued, respected, and interacted with?

How effective are mentoring programs for junior faculty? Who does the mentoring? Who mentors women faculty and faculty of color?

Are some kinds of scholarly work seen as more important than others? Theoretical vs. Applied, Funded vs. Unfunded work

How equitable are departmental resources shared among faculty of different ranks, gender, race/ethnicity?

How is service valued? Is there agreement on the value of different types of service? E.g., to discipline, department, university, outreach, etc.

Power and Influence: whose voice counts? How are decisions made?

Who has the power? Formal and informal leadership in the department Chair, ex-chairs, section leaders, others?

How is power exercised?

Open/covert loud/soft

Who feels entitled who holds back?

How is opposition expressed? Productive? Unproductive?

What is power based on? Position? Wisdom? Trust? Reputation? Grants?

Culture and Norms: What rules and expectations matter? How is behavior assessed?

What are expectations for appropriate behavior with peers?

Is it OK to be aggressive and contentious?

Are racist and sexist innuendos or jokes OK - public or in private? with graduate students? With staff?

What are the informal rules of the game?

What kind of research (or teaching, or service) is seen as central and what is peripheral?

What do people get rewarded for?

What is sacred? (truth, objectivity individual merit?)

Climate and Social Relations: What interactions matter? Who is included? Who is left out?

Who talks with whom and in what settings?

Who is included and who is excluded from informal social gatherings?

How do faculty members talk with one another? Does it vary with rank and/or gender?

What is the level of trust among departmental members?

Can people openly criticize departmental practices and policies? How is criticism expressed? Are their guidelines for how disagreements are pursued?

Are there well-known 'difficult personalities'?

Boundaries: what other parts of the larger organization matter?

How much discretion regarding the above factors (1-4) does the department have?

What departmental resources can be used? On what basis might additional resources flow into the department to address factors of concern?

To what extent is intradepartmental work valued? Rewarded at promotion/tenure?

Is it possible to link and work collaboratively with other departmental teams?

Are there good contacts in the Dean's Office? Provost's Office?

How bound is the department and faculty members by the larger university's mission?

How are alumni, parental, community and/or state concerns dealt with?