

**AAAS Minorities in Science
Networking Breakfast**

**Survey Populations Reveal
Tiny Numbers of URM Science Faculty
at Research Universities**

Dr. Donna J. Nelson
Department of Chemistry
University of Oklahoma

Table 1. Tenured/Tenure Track Chemistry Faculty at the "Top 50" Chemistry Departments by Race/Ethnicity and by Rank (FY 2001)*

University	White				Black				Hispanic				Asian				Native Am.				Total
	Full	Assoc	Asst	Tot	Full	Assoc	Asst	Tot	Full	Assoc	Asst	Tot	Full	Assoc	Asst	Tot	Full	Assoc	Asst	Tot	
U of California, Berkeley	35.003	3.001	7.001	45.005	1	-	-	1	1	-	-	1	2	-	2	4	-	-	-	0	51.005
Johns Hopkins U	11	2	3.001	16.001	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	16.001
California Instit. Of Tech.	18.002	2	3	23.002	-	-	-	0	-	-	-	0	1	1	1.001	3.001	-	-	-	0	26.003
Pennsylvania State U	18.001	6.002	5.001	29.004	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	29.004
U of Illinois, Urbana	29.002	1.001	6.001	36.004	-	-	-	0	-	-	1	1	-	1	1	2	-	-	-	0	39.004
U of Colorado, Boulder	23.003	5.001	5.001	33.005	-	-	-	0	-	-	-	0	-	1.001	3.001	4.002	-	-	-	0	37.007
Purdue U	31.002	6.002	5.002	42.006	1	-	-	1	-	-	-	0	1	-	2	3	-	-	-	0	46.006
Stanford U***	17.001	2	2	21.001	-	2	-	0	-	-	-	0	-	1	2	3	-	-	-	0	24.001
Cornell U	23.001	4.001	3	30.002	1	-	-	1	1	-	-	1	1	-	-	1	-	-	-	0	33.002
U of Wisconsin, Madison	32.002	1.001	4.001	37.004	-	-	-	0	-	-	-	0	1	1	1	3	-	-	-	0	40.004
U of California, LA	34.004	7.002	6.002	47.008	-	1	-	1	-	1	-	1	-	1.001	1	2.001	-	-	-	0	51.009
U of Florida	30.001	10.001	2	42.002	-	1.001	-	1.001	1	-	1.001	2.001	-	-	1	1	-	-	-	0	46.004
U of Pennsylvania	20.002	4	3.001	27.003	-	-	-	0	-	-	-	0	2	-	1	3	1	-	-	1	31.003
U of Texas, Austin	30.001	5	8.002	43.003	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	43.003
Harvard U	19.001	-	2	21.001	-	-	-	0	-	-	-	0	2	-	2	4	-	-	-	0	25.001
U of Massachusetts, Amherst	16.002	8.001	4	28.003	-	-	-	0	-	1.001	1	2.001	-	-	-	0	-	-	-	0	30.004
Massachusetts Inst. Of Tech.	20.003	2	5.001	27.004	-	-	-	0	-	-	-	0	1	-	1	2	-	-	-	0	29.004
Georgia Instit. Of Tech	18	2	12.003	32.003	-	-	-	0	-	-	1	1	-	1	-	1	-	-	-	0	34.003
U of California, San Diego	30.004	4.001	4	38.005	1	1	-	2	-	-	-	0	2	1	3	6	-	-	-	0	46.005
U of Oklahoma	14	2	4.001	20.001	1	-	-	1	-	-	-	0	1	-	2.001	3.001	-	1.001	-	1.001	25.003
Northwestern U	21	-	2.001	23.001	-	-	-	0	-	-	-	0	-	-	1	1	-	-	-	0	24.001
Ohio State U	20.001	7.001	6.001	33.003	-	-	-	0	-	-	1.001	1.001	4	2	-	6	-	-	-	0	40.004
Rutgers, State U of NJ	26.005	6.002	3.001	35.008	-	1	-	1	-	1.001	-	1.001	1	-	1.001	2.001	-	-	-	0	39.010
Arizona State U	22	2	6	30	-	-	-	0	1.001	-	1	2.001	-	-	-	0	-	-	-	0	32.001
Texas A&M U	35.002	2.001	5.001	42.004	1	-	-	1	-	-	1	1	1	-	-	1	-	-	-	0	45.004
Princeton U	22	2.001	1	25.001	-	-	-	0	-	-	-	0	-	-	1	1	-	-	-	0	26.001
Columbia U	15.001	1	5.001	21.002	-	-	-	0	-	-	-	0	1	-	-	1	-	-	-	0	22.002
U of Notre Dame	14	5	6.002	25.002	1	-	-	1	-	-	-	0	1	-	-	1	-	-	-	0	27.002
U of California, Irvine	22.001	1.001	7	30.002	1	-	-	1	-	-	-	0	1	1	2.001	4.001	-	-	-	0	35.003
U of NC, Chapel Hill	29.003	-	10.002	39.005	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	39.005
U of Akron	10.001	2.002	3	15.003	-	-	-	0	-	-	-	0	1	-	1	2	-	-	-	0	17.003
U of Chicago	18.001	2	2.001	22.002	-	-	-	0	-	-	-	0	3	-	1.001	4.001	-	-	-	0	26.003
Indiana U, Bloomington	17	4	7.002	28.002	-	-	-	0	-	-	-	0	-	2	-	2	-	-	-	0	30.002
U of Southern California	17.001	1	2.001	20.002	1	-	-	1	-	1	-	1	1	1	1	3	1	-	-	1	26.002
Florida State U	21.003	9	4.001	34.004	-	-	-	0	-	-	-	0	-	-	3.002	3.002	-	-	-	0	37.006
U of Michigan	31.002	7.002	7.002	45.006	1	-	-	1	-	-	-	0	1	-	1	2	-	-	-	0	48.006
Colorado State U	16.002	6.002	5	27.004	-	-	-	0	-	-	-	0	-	1	1	2	-	-	-	0	29.004
U of Minnesota, Minneapolis	20.001	8.002	8	36.003	-	-	-	0	-	-	1	1	2	1	1	4	-	-	-	0	41.003
State U of NY, Buffalo	20	5.001	2	27.001	-	-	-	0	-	1	-	1	2	1	1	4	-	-	-	0	32.001
U of Utah	19.001	4	5.001	28.002	-	-	-	0	-	-	-	0	-	1	-	1	-	-	-	0	29.002
U of South Carolina	15	7.001	4	26.001	-	-	-	0	-	-	-	0	-	-	1.001	1.001	-	-	-	0	27.002
U of Kansas	12.002	7.001	5.003	24.006	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	24.006
U of Washington	26	4.002	4.002	34.004	2	1	-	3	-	-	1	1	-	1	2	3	-	-	-	0	41.004
Virginia Polytechnic Inst.	14.001	8.002	6	28.003	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	28.003
Yale	18.001	1	4.001	23.002	-	-	-	0	-	-	1	1	-	-	-	0	-	-	-	0	24.002
U of Rochester	14	1	5.001	20.001	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	0	20.001
U of Maryland	24.003	11.002	6	41.005	-	-	-	0	-	-	1	1	-	1	1	2	-	-	-	0	44.005
U of Arizona	23.004	4.001	3	30.005	-	-	-	0	-	1	1	2	1	-	1	2	-	-	-	0	34.005
State U of NY, Stony Brook	10	9.003	2.001	21.004	-	1	-	1	-	-	-	0	2	1	1	4	-	-	-	0	26.004
U of Georgia	22	3.001	4.001	29.002	1	-	-	1	-	-	-	0	-	-	-	0	-	-	-	0	30.002
Chemistry Total	1060.071**	205.042	232.044	1497.157	12**	6.001	0	18.001	4.001	6.002	12.002	22.005	36	21.002	44.009	101.011	2	1.001	0	3.001	1641.175
Percent within race	71%	14%	15%	100%	67%	33%	0%	100%	18%	27%	55%	100%	36%	21%	44%	100%	67%	33%	0%	100%	
Percent of grand total	64.6%	12.5%	14.1%	91.2%	0.7%	0.4%	0%	1.1%	0.2%	0.4%	0.7%	1.3%	2.2%	1.3%	2.7%	6.2%	0.1%	0.1%	0.0%	0.2%	100%
Females in column	6.7%	20.5%	19.0%	10.5%	0%	16.7%	0%	5.6%	25.0%	33.3%	16.7%	22.7%	0.0%	9.5%	20.5%	10.9%	0%	100%	0%	33%	10.7%

*By chemical research expenditures FY1998, NSF; numbers after decimals designate females. **One prof. changed departments mid-year & is counted twice. ***Declined; data are from other sources.

% Blacks*

DISCIPLINE	STUDENTS			PROFESSORS FY2002			
	BS 2000	PhD 83-92	PhD 93-02	asst	assoc	prof	all
chemistry FY'03	9.1%	1.4%	3.0%	0.6%	2.1%	1.2%	1.2%
math	8.3%	1.4%	1.9%	1.0%	1.1%	0.9%	0.9%
computer sci	10.6%	0.9%	2.6%	0.3%	0.6%	0.2%	0.3%
astronomy FY'04	0.7%	0.6%	0.9%	2.2%	2.2%	0.8%	1.2%
physics	5.0%	1.1%	1.5%	1.5%	0.7%	0.4%	0.6%
chemical engr	6.8%	1.8%	2.6%	-	3.5%	1.4%	1.6%
civil engr	4.5%	2.0%	3.1%	3.8%	1.3%	0.6%	1.5%
electrical engr	6.9%	1.6%	2.9%	2.2%	4.0%	0.6%	1.8%
mechanical engr	5.0%	1.2%	2.6%	3.5%	3.5%	0.9%	2.0%
economics	6.2%	3.7%	4.0%	1.9%	2.0%	1.2%	1.5%
political sci	10.6%	7.6%	7.6%	5.1%	7.4%	3.5%	5.0%
sociology	16.7%	6.6%	8.8%	10.1%	7.7%	4.3%	6.6%
psychology	10.7%	3.8%	5.1%	5.7%	4.1%	1.1%	2.7%
biological sci	7.7%	1.6%	2.6%	1.6%	1.4%	0.7%	1.0%

* Blacks were 12.9% of the 2000 general population.

% Hispanics*

DISCIPLINE	STUDENTS			PROFESSORS FY2002			
	BS 2000	PhD 83-92	PhD 93-02	asst	assoc	prof	all
chemistry FY'03	7.4%	2.6%	3.2%	2.2%	5.4%	1.0%	1.8%
math	5.5%	2.3%	2.6%	5.0%	3.2%	2.0%	2.6%
computer sci	6.5%	1.6%	2.4%	1.8%	1.1%	1.1%	1.3%
astronomy FY'04	4.7%	1.9%	2.4%	3.3%	1.1%	0.7%	1.2%
physics	4.1%	2.0%	2.8%	3.7%	2.1%	1.5%	1.9%
chemical engr	6.7%	2.2%	3.2%	3.4%	4.7%	2.8%	3.3%
civil engr	8.6%	3.3%	3.9%	5.5%	3.5%	3.2%	3.8%
electrical engr	8.4%	2.2%	3.2%	3.2%	4.2%	1.6%	2.5%
mechanical engr	7.1%	1.9%	2.6%	3.5%	1.9%	1.5%	1.9%
economics	5.8%	2.5%	3.6%	4.7%	2.4%	2.1%	2.7%
political sci	8.8%	3.3%	3.7%	2.6%	2.1%	1.0%	1.7%
sociology	9.4%	4.7%	4.8%	4.7%	4.7%	1.9%	3.3%
psychology	8.7%	3.4%	5.7%	6.0%	4.4%	1.9%	3.3%
biological sci	7.2%	2.1%	3.7%	4.0%	1.3%	1.4%	1.9%

* Hispanics were 12.5% of the 2000 general population.

% Native Americans*

DISCIPLINE	STUDENTS			PROFESSORS FY2002			
	BS 2000	PhD 83-92	PhD 93-02	asst	assoc	prof	all
chemistry FY'03	0.5%	0.33%	0.40%	-	0.4%	0.2%	0.2%
math	0.6%	0.21%	0.30%	-	0.3%	0.1%	0.1%
computer sci	0.5%	0.31%	0.28%	-	-	-	-
astronomy FY'04	1.3%	0.29%	0.48%	-	-	-	-
physics	0.4%	0.24%	0.21%	-	-	0.1%	0.1%
chemical engr	0.7%	0.24%	0.47%	-	-	-	-
civil engr	0.9%	0.41%	0.27%	-	-	0.1%	0.1%
electrical engr	0.5%	0.25%	0.19%	-	-	-	-
mechanical engr	0.4%	0.20%	0.45%	-	-	-	-
economics	0.4%	0.18%	0.17%	-	-	0.1%	0.1%
political sci	0.7%	0.30%	0.50%	0.3%	0.3%	-	0.2%
sociology	0.9%	0.54%	0.87%	-	-	0.4%	0.2%
psychology	0.7%	0.40%	0.64%	0.3%	0.9%	0.1%	0.3%
biological sci	0.6%	0.28%	0.34%	0.1%	0.3%	-	0.1%

* Native Americans were 1.5% of the 2000 general population.

% FEMALES*

DISCIPLINE	STUDENTS			PROFESSORS FY2002			
	BS 2000	PhD 83-92	PhD 93-02	asst	assoc	prof	all
chemistry FY'03	47.3%	22.8%	31.3%	21.5%	20.5%	7.6%	12.1%
math	48.2%	20.5%	27.2%	19.6%	13.2%	4.6%	8.3%
computer sci	27.7%	17.9%	20.5%	10.8%	14.4%	8.3%	10.6%
astronomy FY'04	32.7%	12.7%	20.6%	22.0%	16.5%	9.5%	12.6%
physics	21.4%	9.0%	13.3%	11.2%	9.8%	4.6%	6.6%
chemical engr	35.7%	14.4%	22.3%	21.4%	19.2%	4.4%	10.5%
civil engr	24.5%	10.2%	18.7%	22.3%	11.5%	3.5%	9.8%
electrical engr	13.1%	6.4%	11.5%	10.9%	9.8%	3.8%	6.5%
mechanical engr	13.9%	6.0%	10.4%	15.7%	8.9%	3.2%	6.7%
economics	32.3%	22.4%	29.3%	19.0%	16.3%	7.2%	11.5%
political sci	50.1%	31.0%	36.6%	36.5%	28.6%	13.9%	23.5%
sociology	70.2%	51.1%	58.9%	52.3%	42.7%	13.9%	35.8%
psychology	76.5%	55.0%	66.1%	45.4%	40.1%	13.9%	33.5%
biological sci	58.4%	36.5%	44.7%	30.2%	24.9%	14.8%	20.2%

* Females were 50.9% of the 2000 general population.

Female URM Faculty at "Top 50" Science & Engineering Departments

	<u>Black females</u>	<u>Hispanic females</u>	<u>Native American females</u>
chemistry	2	5*	1
math	2	7***	0
computer science	0	0	0
astronomy	2*	2*	0
physics	0	8***	0
chemical eng	2	3	0
electrical eng	7	3	0
mechanical eng	3	2*	0
civil eng	2	3**	0
	===	===	==
total	20	33	1
*URM female full prof	1	11	0