Affirmative Action Report: New Hires at Assistant Professor Level, Fall 1990

We have spent the last several months updating last year's analysis of faculty hiring patterns. Our purpose, once again, is to gain a better understanding of some of the opportunities for and obstacles to achieving good representation of women and minorities on the Penn faculty. The resultant tables contain information about Penn, information about the pool of available Ph.D.s, and the first estimate of possible faculty composition by race and sex had our new hires strictly reflected the available pool.

The full report consists of three tables for each department. Table A—Current Standing Faculty 1990—shows the distribution of standing faculty by rank, race, and sex as of Fall 1990. And Table C—All New Hires by Rank: 1982-1990—is provided to show actual new faculty by race and sex, both junior and senior level, hired during the period in question.

The presentation that follows is summarized from Table B—Hiring Practices: Assistant Professor—which consists of several parts. First, we obtained counts, by race and sex, of all assistant professors hired during the period from Fall 1982 to Fall 1990. These were derived from the official records in the Deputy Provost's Office, with verification of the most recent year by each individual school. Next, we obtained the best information we could about U.S. production of advanced degrees, usually Ph.D.s, in the disciplines most closely associated with each department. Using this "availability" data and the number of new hires during the period, we calculated the hypothetical distribution of the newly-hired faculty by race and sex and compared that with the actual distribution of new assistant professors.

Assume, for example, that there were 1,000 doctorates awarded in a given discipline from 1981 to 1988, of which 300 were earned by women and 700 by men; if Penn's department associated with that discipline hired 20 assistant professors during the period July 1982 to July 1990, our calculations would have expected 6 women (30 percent) and 14 men (70 percent).

While we put a great deal of effort into obtaining, validating, and tabulating the data for these reports, we recognize some inherent shortcomings in our approach. For this reason, we call our estimates "first approximations." We wish to outline some of the strengths and weaknesses of the report below, so that you can keep them in mind as you use the tables.

- Penn faculty data include both U.S. and non-U.S. citizens. In fact, a number of minority faculty, particularly
 those classified as Asian, are not citizens. The availability data provide racial breakdowns only for U.S.
 citizens.
- Clearly, Penn does not hire its young faculty from the entire pool of new Ph.D.s in the U.S. Because it is impossible to obtain data on an institution-by-institution basis, we cannot focus our analysis on those schools, here or abroad, where we tend to recruit faculty in various fields.
- Departments often recruit new faculty in particular sub-specialities in order to strengthen or round out their existing faculties. The availability data are general, and we cannot assume that the racial and gender distributions of Ph.D.s in sub-specialities are necessarily proportional to the discipline as a whole.
- Our payroll/personnel records include only those who actually accept appointments at Penn. We have no
 information about affirmative action efforts in terms of applicants or rejected offers.
- For some Penn departments we had disciplinary data that were only approximate matches; for example, we used anthropology as a surrogate for Folklore and Folklife.
- For some Penn departments, we were unable even to provide an appropriate substitute; these departments are included without "proportional" hiring patterns.
- In the clinical area of Medicine, our data source provided a distribution of actual M.D.s employed in U.S.
 medical school faculties in 1990. Even these data were sparse, and hence some clinical areas are omitted
 from our reports. In addition, some availability data in certain areas have been included at the end of the
 report in order to detail trends and proportions (Fine Arts M.A.s and Ph.D.s, students enrolled in Clinical
 Dentistry departments, and Medical School and Veterinary School graduates).

Despite these caveats and exceptions, much of the availability data we provide are useful for understanding the volume of advanced degrees awarded to women and minorities in various fields during the last few years. These should provide an approximate basis for assessing the recent affirmative action efforts of Penn departments.

The full Affirmative Action Report is available for each school in the office of its dean. Copies are also available from the Office of the Provost.

- Michael Aiken, Provost

University of Pennsylvania Standing Faculty New Hires at Assistant Professor Rank, 1982-90 National Ph.D. Pool 1981-88: Proportional Representation by Gender and Race

		v Hires 2-1990	Propo Repres	rtional sentation	New Hires 1982-90				Proportional Representation				US Ph.D Pool 1981-88
Department	Men	Women	Men	Women	White	Hispani	ic Asian	Black	White	Hispanic	Asian	Black	Total
Arts & Sciences: Human	nities												
American Civilization	1	1	1.3	0.7	1	0	0	1	1.8		0.0	0.1	2363
Art History	1	3	1.2	2.8	4	0	0	0	3.8		0.1	0.0	1124
Classical Studies	2	0	1.2	8.0	2	0	0	0	2.0		0.0	0.0	429
English	12	7	8.6	10.4	17	0	0	2	18.1		0.2	0.5	5655
Folklore & Folklife	2	1	1.5	1.5	2	0	0	1	2.8		0.1	0.1	2821
German	0	1	0.4	0.6	1	0	0	0	1.0		0.0	0.0	614 4248
History	3 5	2	3.4	1.6	3	1	0	1	4.6 4.6		0.1	0.2 0.1	1422
Linguistics Music	4	1	2.5 3.4	2.5 1.6	4	0	1	0	4.8		0.2	0.1	3531
Oriental Studies	5	3	5.0	3.0	8	Ö	Ó	Ö	6.8		1.2	0.0	255
Philosophy	4	1	3.9	1.1	5	ő	ŏ	ŏ	4.8		0.1	0.1	1927
Religious Studies	1	ò	0.8	0.2	l ĭ	ő	ŏ	ŏ	0.9		0.0	0.0	1420
Romance Languages	2	4	2.2	3.8	5	1	Ö	Ö	4.6		0.0	0.1	2388
Slavic Languages	ō	1	0.5	0.5	1	ò	Ö	Ō	1.0		0.0	0.0	212
South Asia Studies	0	Ó	0.0	0.0	Ö	Ö	0	0	0.0		0.0	0.0	135
Arts & Sciences: Social	Science	se.							1,550,000				
Anthropology	5	3	4.1	3.9	8	0	0	0	7.4	0.2	0.1	0.2	2821
Economics	26	1	22.6	4.4	22	1	4	ŏ	24.9		1.2	0.5	6346
History & Sociology of Sci		i	0.7	0.3	1	ò	Ó	0	1.0		0.0	0.0	186
Political Science	9	1	7.6	2.4	9	0	0	1	9.1		0.2	0.5	3337
Regional Science	0	0	0.0	0.0	0	0	0	0	0.0		0.0	0.0	7277
Sociology	5	5	5.7	4.3	8	0	0	2	9.0	0.3	0.3	0.5	4036
Arts & Sciences: Natura	I Scienc					520	1020						404
Astronomy	0	0	0.0	0.0	0	0	0	0	0.0		0.0	0.0	401
Biology	7	1	5.5	2.5	8	0	0	0	7.5		0.3	0.1	9248
Chemistry	6	1	5.7	1.3	6	0	1	0	6.5		0.4	0.1	11351 957
Geology	3	0	2.4	0.6	3 9	0	0 3	0	2.9		0.0	0.0 0.1	3666
Mathematics Physics	13 13	0 1	11.1 12.9	1.9 1.1	11	Ó	2	1	12.2 13.1		0.6	0.1	6536
Psychology	5	4	4.7	4.3	9	0	0	Ó	8.4		0.1	0.3	20164
11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	4	4.7	4.5	"	U	U	U	0.4	0.2	0.1	0.0	20104
Wharton	40	•	١ - ،	0.0		•	•	•	١ , ,		0.5	0.2	966
Accounting Decision Science	10 9	0	7.4	2.6	7	0	3	0	9.2 9.0		0.5	0.3 0.1	1101
Finance	18	1	8.4 15.7	1.6 2.3	8 15	0	2	0	16.0		1.7	0.1	750
Health Care Systems	1	0	NA NA	NA	1 1	0	0	Ö	NA		NA	NA	NA
Insurance	3	2	NA NA	NA	5	ŏ	Ö	ŏ	NA		NA	NA	NA
Legal Studies	9	ō	8.1	0.9	8	ŏ	ŏ	1	8.6		0.3	0.1	208
Management	12	5	14.1	2.9	13	ŏ	3	1	15.8		0.8	0.2	1089
Marketing	5	1	4.4		4	Ö	2	Ó	5.6		0.3	0.1	641
Public Policy & Managem		0	1.9	1.1	1	0	2	0	2.7	0.1	0.0	0.1	426
Social Systems Sciences		0	2.0	1.0	3	0	0	0	2.7	0.1	0.1	0.1	202
Statistics	4	0	3.2	0.8	1	0	3	0	3.6	0.0	0.3	0.0	1048
Engineering													
Bioengineering	3	0	2.6	0.4	2	0	1	0	2.7	0.1	0.2	0.0	591
Chemical Engineering	2	1	2.8		3	0	0	0	2.6		0.3	0.0	3381
Computer & Info. Science		1	12.8		6	0	7	1	12.1		1.8	0.1	580
Systems	3	1	3.8	0.2	2	0	2	0	3.6		0.3	0.0	3380
Electrical Engineering	4	2	5.8		3	1	2	0	5.3		0.6	0.0	4905
Materials Science	3 5	1	3.5		4	0	0	0	3.5		0.4	0.0	1450 3283
Mechanical Engineering		0	4.8	0.2	3	1	1	0	4.5		0.5	0.0	
Nursing School	0	32	1.3	30.7	31	0	0	1	29.9	0.4	0.4	1.3	1331

University of Pennsylvania Standing Faculty New Hires at Assistant Professor Rank, 1982-90 National PhD Pool 1981-88: Proportional Representation by Gender and Race

			Hires 2-1990	Proportional Representation			New 1982	Hires 2-90		Proportional Representation				US Ph.D Pool 1981-88
	Department	Men	Women	Men	Women	White	Hispan	nic Asian	Black	White I	Hispanic	Asian	Black	Total
	Grad. Sch. of Education	3	11	6.8	7.2	9	0	1	4	12.4	0.4	0.2	1.0	54757
	School of Social Work	1	2	1.3	1.8	2	1	0	0	2.6	0.1	0.1	0.3	1740
	Annenberg School	0	1	0.6	0.4	1	0	0	0	0.9	0.0	0.0	0.0	1587
	School of Fine Arts									l				
	Architecture	3	1	٠ .	*	4	0	0	0		*	•	•	•
	City Planning	2	0		*	2	0	0	0	*	*	•	:	:
	Fine Arts	0	0	:	:	0	0	0	0	:	:			
	Landscape Architecture	2				3	0	0	0	_				
	Law School	9	7	11.5	4.5	16	0	0	0	14.3	0.3	0.1	1.2	810
	Medical School: Basic Sciences										1.1			
	Anatomy	2		1.3	0.7	2	0	0	0	1.9	0.0	0.1	0.0	920
	Biochem. & Biophysics	5		4.2	1.8	4	0	2	0	5.5	0.1	0.3	0.1	5573 938
	Human Genetics Microbiology	4	_	3.4 2.6	2.6 1.4	6	0	0	0	5.6 3.7	0.1	0.3	0.1 0.1	1870
	Pharmacology	9	_	6.2	2.8	9	0	ő	0	8.2	0.1	0.5	0.1	1961
	Physiology	2		1.4	0.6	1	1	ő	Ö	1.9	0.0	0.1	0.0	2063
Medical School: Clinical Sciences														
	Anesthesia	42		46.0	13.0	55	1	1	2	49.0	1.3	7.8	0.9	2307
	Dermatology	4		6.3	1.7	8	ò	ó	ō	7.0	0.3	0.5	0.2	355
	Medicine	83	29	96.3	15.7	102	2	4	4	100.2	2.3	7.8	1.7	12271
	Neurology	22		19.7	3.3	20	1	2	0	20.7	0.4	1.7	0.2	1573
	Obstetrics & Gynecology	29		39.5	9.5	45	0	1	3	41.7	1.7	3.6	1.9	2041
	Ophthalmology	9		10.5	1.5	12	0	0	0	10.8	0.2	8.0	0.1	949
	Orthopedic Surgery	19		17.8	1.2	17	0	2	0	17.7	0.2	0.9	0.2	670 509
	Otorhinolaryngology Pathology	7 30		6.0 31.5	1.0 8.5	39	0	1 0	0	6.6	0.1 1.4	4.1	0.5	3651
	Pediatrics	47		52.0		69	Ó	2	3	64.9	2.2	5.4	1.5	5201
	Physical Medicine	4		4.2	1.8	3	ő	3	Ö	5.0	0.1	0.7	0.2	425
	Psychiatry	30		29.9	8.1	33	ŏ	4	1	34.2	1.1	1.7	1.0	4650
	Radiology	26	13	32.9	6.1	35	2	0	2	32.9	1.1	4.3	0.6	3564
	Radiation Oncology	24		26.1	4.9	27	0	2	2	26.2	0.9	3.4	0.5	3564
	Surgery	26	6	29.7	2.3	29	0	2	1	29.0	8.0	1.8	0.5	4779
	Dental School: Basic Scien	ces												noning of the
	Biochemistry	0	0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0	4881
	Histology, Embriol., Anatomy	0	0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0	1486
	Microbiology	0		0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0	2575
	Pathology	1		0.7	0.3	1	0	0	0	0.9	0.0	0.1	0.0	821
	Physiology/Pharmacology	0	1.00	0.0	0.0	0	0	0	0	0.0	0.0	0.0	, 0.0	4024
	Dental School: Clinical Scie Clinical Departments	nces 17		١.	•	19	1	0	2		•	٠	•	٠
	Veterinary School: Basic Sc													
	Animal Biology	3	0	2.6		3	0	0	0	2.9	0.0	0.1	0.0	197
	Pathobiology	5		4.8	2.2	5	0	1	1	6.4	0.1	0.4	0.1	821
Veterinary School: Clinical Studies														
	New Bolton Center	13			:	15	0	2	0	:		:	:	
	Philadelphia	10	10			20	0	0	0		< = ×:		859	1.50
						_				110				

^{*} Because the figures in these areas are both limited and inconsistent with those which comprise the national pools reflected in the bulk of this report, we have not made similar calculations for proportional representation. See notes, page IV.

National Pool Sources and Substitutions

Because the disciplines represented in some Penn departments are omitted from the National Research Council Reports, we have substituted data for related disciplines. We understand that these substitutions may not fully capture the academic direction of departments at Penn. Schools and departments listed below include only those for which substitutions have been made. Unless otherwise indicated, the availability data source for all departments is: Summary Report, National Research Council (1982-87).

School of Arts & Sciences

Penn Department Department Used from Availability Data
American Civilization American Studies, History (American)

Classical Studies Classics
Folklore & Folklife Anthropology
History and Soc. of Science History of Science

Oriental Studies Chinese, Japanese, Hebrew, Arabic

Regional Science Economics, Geography

Romance Languages French, German, Italian, Spanish

South Asia Studies Chinese, Japanese

Wharton School

Decision Sciences Information Science and Systems, Operations Research

Finance Banking and Finance Legal Studies Law, Jurisprudence(82-89)

Management Business and Management, General & Other

Social Systems Social Sciences, general

School of Engineering

Penn Department
Systems

Department Used from Availability Data
Systems Engineering, Civil Engineering

Dental School

Availability Data Source for Clinical Departments (used in appendix to the full report): Supplement 2 to the Annual Report 88/89, American Dental Association. Figures reflect enrollees in Advanced Dental Education Programs, 1983 to 1988

Clinical Departments include:

Dental Care Dental Public Health
Endodontics Endodontics
FFMS Oral Pathology
Oral Medicine Oral and Max. Surgery

Oral Surgery Orthodontics
Pediatric Dentistry Pedodontics
Periodontics Periodontics
Restorative Dentistry Prosthodontics

Law School

Availability Data Source: Association of American Law Schools Teaching Registry. The figures reflect students who register with this Association and thereby express an interest in the teaching of law.

Medical School

Human Genetics Human and Animal Genetics

Medicine Department Internal Medicine

Microbiology Epidemiology, Parisitology, Bacteriology (1983-1987)

Microbiology/Bacteriology & Parasitology (1981-1982, after 1987)

Otorhinolaryngology Otolaryngology

Pathology Human and Animal Pathology
Pharmacology Human and Animal Pharmacology
Physiology Human and Animal Physiology

Radiation Oncology Radiology

Veterinary School

Availability Data Source for Clinical Departments (used in appendix to the full report): Comparative Data Summary Reports, 1981-88, American Veterinary Medical Association. Figures reflect graduates from veterinary medical school programs.

Penn Department Department Used from Availability Data

Animal Biology Animal Breeding and Genetics (Animal Husbandry, 1981 and 1982)

Pathobiology Human and Animal Pathology