ACDP 2001 Survey Results

Association of Chairs of Departments of Physiology 2001 Survey Results

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The Association of Chairs of Departments of Physiology annual survey was mailed to 176 physiology departments throughout the US, Canada and Puerto Rico. A total of 97 surveys were returned, for a response rate of 55%. This rate is slightly higher than that of the 2000 survey (52%). Of the 97 surveys returned, there were 60 public and 37 private medical schools including 11 non-medical (which are public veterinarian or osteopathic schools).

The data provide the reader with general trends of faculty, salary, overall departmental budgets, and space available for research. Faculty salary information (Tables 1-3) is derived from the total compensation column, which

includes any supplementary income, but not fringe benefits. In addition to salary information, further data are provided on tenure, gender, ethnicity, and salary by number of years in rank.

The statistics are based on 97 responses (three from Canada) but the results of salary, tenure, gender, ethnicity, and number of years in rank are calculated on the number of respondents providing this information. However, two institutions did not provide any faculty salary information. In addition, results presented reflect responses from those institutions reporting, which may vary on a year-to-year basis.

Table 1. Faculty Salaries for Fiscal Year 2001

		Median	% Change From Previous Survey	Minimum	Maximum	No. of Faculty
Chairpers	on					
-	All Schools	\$166,532	1.9	\$ 66,660	\$300,000	87
	Medical Public	175,344	4.9	66,660	280,000	44
	Medical Private	173,656	2.7	113,236	300,000	31
	Nonmedical	130,968	-4.0	70,561	178,389	12
	Female	129,753	-8.1	120,840	170,000	6
Professor						
	All Schools	112,500	0.4	34,883	306,400	667
	Medical Public	112,528	2.7	34,883	267,800	327
	Medical Private	114,566	-3.5	41,616	306,400	234
	Nonmedical	106,074	0.5	57,069	181,167	106
	Female	110,138	3.7	47,891	203,831	95
Associate	Professor					
	All Schools	81,081	1.2	36,904	150,000	402
	Medical Public	81,300	3.2	36,904	129,889	195
	Medical Private	80,000	-4.6	47,424	150,000	130
	Nonmedical	85,252	9.0	48,630	134,540	77
	Female	81,804	4.1	36,904	150,000	89
Assistant	Professor					
	All Schools	67,479	4.1	30,000	124,384	326
	Medical Public	67,127	3.4	32,000	102,135	144
	Medical Private	68,000	4.8	36,822	124,384	131
	Nonmedical	66,793	4.1	30,000	106,333	51
	Female	65,153	4.3	30,000	106,333	92
Instructor	•					
	All Schools	47,000	4.9	30,900	87,100	63
	Medical Public	44,892	7.4	32,640	87,100	31
	Medical Private	48,000	1.8	30,900	70,000	27
	Nonmedical	50,000	-2.5	42,642	74,400	5
	Female	44,531	3.6	30,900	86,848	26

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Student/trainee information is provided by ethnicity for predoctoral and postdoctoral categories, as well as predoctoral trainee completions, stipends provided, and type of support.

Departmental budget information (Table 4) shows type of support, faculty salaries derived from grants along with negotiated indirect costs to the departments. Table 5 ranks respond-

ing institutions according to their total dollars, research grant dollars, and departmental space. Space averages are presented as research, administration, teaching and other. ❖

Table 2. Average Salary by Number of Years in Rank

			3	Years				
	0-5	6-10	11-15	16-20	21-25	26+		
Chairpersons								
Salary	\$150,052	170,286	192,023	179,965	172,229	192,901		
# of Faculty	28	20	22	8	7	2		
Professors							Space Controlled b	v Departmen
Salary	110,338	113,711	117,649	117,555	126,860	127,587	Research	17,338
# of Faculty	189	152	142	91	52	41	Administration	2,872
Assoc. Profess	sors						Teaching	2,830
Salary	83,747	79,872	87,022	78,367	77,805	80,249	Other	2,097
# of Faculty	205	87	58	22	17	13		*
Asst. Professo	rs						Total space	25,136
Salary	67,216	66,656	61,176	61,155	89,625	65,127		
# of Faculty	267	46	8	3				
Instructors								
Salary	47,624	54,486	58,521		0	0		
#of Faculty	56	4	3		0	0		

Type of Institution (n = 97)

Suppor	rt	Teac	ching I	nteractions	
Public	60	MD/DO	88	Pharmacy	22
Private	37	DDS	30	Other biomedical	62
		DVM	8	Life science	41
		Allied health	45	Bioengineering	28
				Other	21

Tenure status in each department by degree

	Tenured	Not Tenured	Not Eligib	le Total
MD	41	13	2	56
PhD	903	267	192	1,362
Both	68	27	11	106
Other	r 9	2	10	21

Faculty Summary (n = 1,522)

	Male	Female	Total
American Indian/			
Alaskan Native	0	1	1
Asian/Pacific Islander	128	35	163
Black, not Hispanic origin	18	9	27
Hispanic	45	14	59
White, not of Hispanic origin	1,022	250	1,272
Foreign national	57	12	69
Total	1,202	296	1,498

Student/Trainee Summary

Total number of US	citizen	/resident alien	
pre- and postdoctora	l stude	ents/trainees	
Predoctoral male	505	Postdoctoral male	243
Predoctoral female	424	Postdoctoral female	162
Total number of fore students/trainees	ign pre	e- and postdoctoral	
Predoctoral male	287	Postdoctoral male	481
Predoctoral female	253	Postdoctoral female	251

Ethnicity of each pre- and postdoctoral student/trainee

	Predoctoral		Postdoctore	
	Male	Female	Male	Female
American Indian/				
Alaskan Native	5	3	0	2
Asian/Pacific Islander	51	32	66	39
Black, not Hispanic origin	33	55	10	10
Hispanic	31	21	3	9
White, not of Hispanic origin	385	313	164	102

Number of foreign pre- and postdoctoral students/trainees

	Predoctoral		Postdoctoral	
	Male	Female	Male	Female
African	11	5	12	3
Asian/Pacific Islander	139	146	282	117
Central and South American	14	8	24	13
European, Canadian,				
Australian	73	62	108	89
Middle Eastern	35	19	29	12
Other	8	9	20	12

Number of foreign pre- or postdoctoral t	trainees	whose
primary source of support is:		

	Predoctoral	Postdoctoral
Institutional	194	78
Research grants	267	567
Private foundations	10	38
Home (foreign) governments	20	18
Other	11	11

Foreign National predoctoral trainee completions:

	maie	remaie
African	0	0
Asian or Pacific Islander	21	26
Central or South American	1	0
European, Canadian, Australian	15	11
Middle Eastern	4	5
Other	2	1

Predoctoral Trainee Completions

Number of trainees who have completed doctoral work during the year ended June 30, 2001

Predoctoral male	142	Predoctoral female	108

US citizen/resident alien predoctoral trainee completions:

	Male	Female
American Indian/Alaskan Native	1	2
Asian or Pacific Islander	12	6
Black, not of Hispanic origin	5	2
Hispanic	5	3
White, not of Hispanic origin	76	52

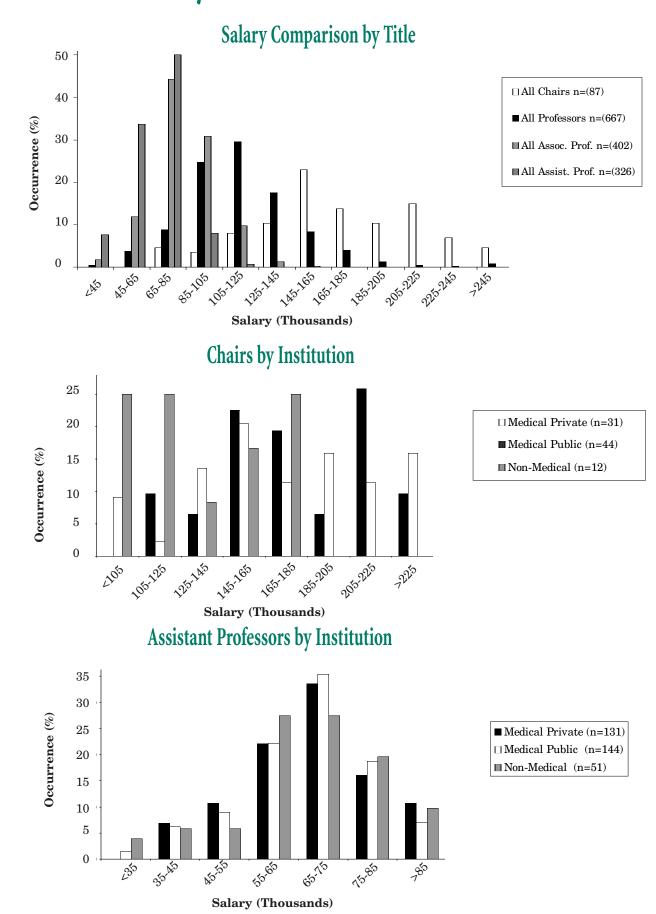
Average annual starting stipend (in US dollars) for trainees:

Predoctoral Postdoctoral \$17,978 \$30,369

Table 3. Salaries by Region

Region	Average	Median	Minimum	Maximum	Total	
Chairperson						
Northeast	\$186,114	\$178,389	\$102,675	\$300,000	21	Northeast:
Midwest	182,917	177,190	99,019	280,000	$\frac{-}{21}$	
South	164,945	151,271	114,999	255,400	32	ME, NH, VT, NY, MA
West	173,435	174,183	103,223	223,602	9	RI, CT, NJ, PA, MD,
Canada/Puerto Rico	68,505	68,400	66,660	70,561	4	DE, DC
Professor						
Northeast	114,893	112,790	41,616	212,892	154	
Midwest	122,859	118,401	48,591	247,105	173	Midwest:
South	114,213	109,700	53,276	267,800	241	MI, OH, IN, IL, WI,
West	126,420	121,500	49,250	306,400	75	IA, MO, KS, NE, ND,
Canada/Puerto Rico	58,930	60,158.50	34,883	72,848	24	SD, MN
Associate Professor						
Northeast	83,500	79,632	48,247	122,573	99	
Midwest	87,364	86,894	53,088	150,000	112	South:
South	82,214	80,845	38,766	140,420	146	VA, WV, KY, TN, NC,
West	84,197	81,417	59,088	116,835	28	
Canada/Puerto Rico	49,538	49,496	36,904	57,552	17	SC, GA, FL, AL, MS,
	,	,	,	,		AR, LA, OK, TX
Assistant Professor						
Northeast	65,559	67,000	32,398	101,070	99	
Midwest	70,369	70,000	30,000	124,384	78	
South	68,021	67,605	41,633	89,750	112	West:
West	66,961	64,577	43,697	94,008	29	AK, HI, MT, WY, CO,
Canada/Puerto Rico	37,680	35,793	32,000	49,548	8	NM, AZ, ID, WA, OR,
						CA, UT
nstructor						014, 01
Northeast	50,386	46,350	38,500	86,848	11	
Midwest	49,636	48,000	30,900	74,400	15	
South	46,164	46,359	32,640	61,880	31	
West	55,104	52,500	37,872	87,100	6	
Canada/Puerto Rico	0	0	0	0	2	

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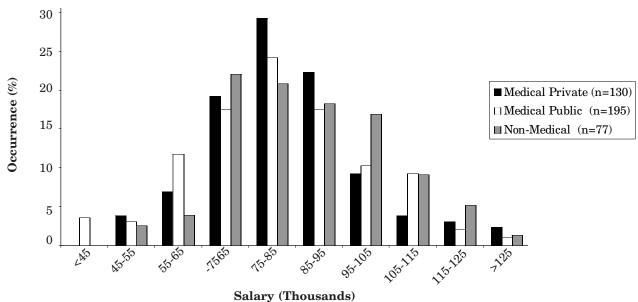


34.94

(n = 87)

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Associate Professors by Institution



Professors by Institution

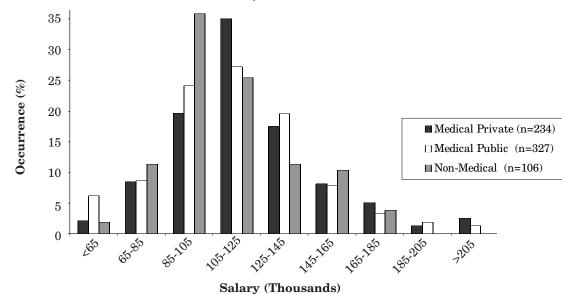


Table 4. Budgets by Institutions

	All Institutions	No.	Private Med.	No.	Public Med.	No.	Nonmed.	No.
Institutional	\$1,634,434	93	\$1,552,121	35	\$1,566,997	45	\$1,784,185	13
Outside Research Grants (direct costs)	3,375,346	90	4,336,913	35	3,182,566	43	2,606,560	12
Training Grants (direct costs only)	250,047	52	384,670	22	233,283	26	132,187	
Endowments	186,895	45	203,056	15	120,309	24	237,320	6
Indirect Cost Recovery (amount to dept.)	245,459	52	457,825	10	183,021	34	95,532	8
Other Budget Support (identify)	315,895	66	580,314	22	282,282	35	85,088	9
Average Departmental Budget	1,001,346		1,252,483		928,076		823,479	
Standard Deviation	1,303,945		1,583,741	1,583,741 1,232,747 1,095,34			1,095,347	
Financial Information								
Current fringe benefit rate most frequently used for Primary faculty							24.67 ($n =$	92)
Federally negotiated indirect cost rate for FY 01-02 off campus						26.65 (n =	66)	
on campus							50.45 (n =	89)
Percentage of allocated faculty salary dol	lars raised from	grant	s, etc,. directly ret	urned	to your departn	nent	73.71 (n =	55)
Percentage of indirect costs returned to your department.								49)

Percentage of total faculty salaries derived from research grants (do not include fringe benefits costs)

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Table 5. Complete Ranking According to Total Dollars

Dollars Research Grant Grant Dollars Research Dollars/ Faculty Total Research Space Space (sq. ft.) Research Dollars/ Sq. ft. Dollars/ Sq. ft. 1 \$18,638,347 1 \$16,029,926 2 \$667,914 1 41,428 7 \$387 2 18,630,853 3 13,920,327 1 928,022 8 31,125 3 447 3 16,361,233 2 14,033,250 4 501,188 2 38,157 8 368	24 15 28 26 30 30 17 21
Dollars Faculty Space sq. ft. 1 \$18,638,347 1 \$16,029,926 2 \$667,914 1 41,428 7 \$387 2 18,630,853 3 13,920,327 1 928,022 8 31,125 3 447 3 16,361,233 2 14,033,250 4 501,188 2 38,157 8 368	15 28 26 30 30 17
2 18,630,853 3 13,920,327 1 928,022 8 31,125 3 447 3 16,361,233 2 14,033,250 4 501,188 2 38,157 8 368	15 28 26 30 30 17
2 18,630,853 3 13,920,327 1 928,022 8 31,125 3 447 3 16,361,233 2 14,033,250 4 501,188 2 38,157 8 368	15 28 26 30 30 17
3 16,361,233 2 14,033,250 4 501,188 2 38,157 8 368	26 30 30 17
	30 30 17
4 13,800,705 7 6,747,882 24 259,534 33 20,147 11 335	30 17
5 12,372,266 4 9,309,958 10 310,332 16 26,333 9 354	17
6 12,141,506 6 6,945,120 31 231,504 26 23,039 16 301	
7 11,510,819 13 6,065,743 8 356,808 55 12,681 2 478	Ω1
8 10,824,566 8 6,745,956 9 321,236 6 33,720 39 200	
9 10,591,413 10 6,626,807 16 288,122 14 27,396 30 242	23
10 10,108,284 16 5,529,348 23 263,302 19 25,389 35 218	21
11 9,909,081 9 6,663,187 17 277,633 5 35,500 44 188	24
12 9,318,106 5 7,056,000 13 294,000 12 28,177 27 250	24
13 9,308,041 71 1,707,255 80 68,290 15 26,500 83 64	25
14 9,272,202 11 6,249,690 6 390,606 35 19,761 13 316	16
15 8,830,568 19 5,154,307 20 271,279 3 36,063 62 143 16 8,828,745 20 5,112,369 21 269,072 7 32,665 56 157	19
10 0,020,110 20 0,112,000 21 200,012	19
17 8,785,446 18 5,412,452 41 193,302 11 28,183 42 192 18 8,717,074 15 5,744,867 42 191,496 27 22,823 26 252	28
10 0,11,011 = 0,11,001 = 101,100	30
10 0,000,101 11 0,000,000 12 200,010 00	20
20 0,000,020 1. 1,010,020 12 200,000	20
21 0,101,000 == 1,000,111 1 012,200	13
22 0,000,100 == 0,000,001 = 10 200,100	20
20 1,001,000 - 0,000,000 1 002,001	14
21 1,001,100 == 0,210,100 1 021,010	10
20 1,000,000 11 1,010,120 11 100,001	21 19
26 7,025,845 25 4,748,001 28 249,895 42 17,479 20 272 27 6,912,601 29 4,100,195 14 292,871 29 22,028 46 186	14
28 6,740,227 23 4,918,753 43 189,183 23 24,105 38 204	26
29 6,633,870 22 4,992,290 34 208,012 18 25,929 41 193	24
30 6,622,849 33 3,800,000 54 158,333 20 24,522 57 155	24
31 6,326,856 39 3,105,321 47 182,666 31 20,521 60 151	17
32 6,310,020 28 4,107,024 45 186,683 24 23,932 50 172	22
33 6,307,012 53 2,433,874 79 81,129 41 17,737 64 137	30
34 6,298,862 26 4,715,665 30 235,783 39 18,027 22 262	20
35 6,265,140 34 3,565,092 58 155,004 17 26,234 65 136	23
36 5,814,495 40 3,093,591 59 154,680 59 12,398 28 250	20
37 5,552,315 66 1,987,000 68 116,882 85 5,100 6 390	17
38 5,461,549 67 1,982,842 81 66,095 21 ^{24,241} 81 82	30
39 5,338,035 45 2,619,612 73 109,151 25 23,891 75 110	24
40 5,290,281 48 2,558,636 63 142,146 34 20,104 70 127	18
41 5,253,519 42 3,000,000 19 272,727 84 5,404 1 555	11
42 5,074,916 36 3,314,272 11 301,297 51 14,348 31 231	11
43 5,042,342 32 4,039,839 33 224,436 40 17,828 32 227	18

Table 5. Complete Ranking According to Total Dollars

Table 5.	Complete R	anking A	ecoraing t	o iotai De	onars					
Rank	Total Dollars	Rank Research Grant Dollars	Research Grant Dollars	Rank Research Dollars/ Faculty	Research Dollars/ Faculty	Rank Total Research Space	Research Space (sq. ft.)	Rank Research Dollars/ sq. ft.	Research Dollars/ sq. ft.	No. of Faculty
						_	400=0	_		
44	\$5,021,007		\$2,693,017		\$149,612	44	16,372	52	\$165	18
45	5,002,565		3,224,492		268,708	61	11,993	21	269	12
46	4,998,517		2,452,165		163,478	74	8,385	17	292	15
47	4,824,874		2,769,308		251,755	58	12,423	33	223	11
48	4,694,794		4,044,895		202,245	28	22,117	48	183	20
49	4,621,439		2,373,908		139,642	32	20,464	71	116	17
50	4,570,184		2,322,902		193,575	71	9,118	24	255	12
51	4,532,686		2,200,850	65	137,553	37	19,600	73	112	16
52	4,427,103	52	2,446,906	44	188,224	47	15,259	54	160	13
53	4,421,348	38	3,122,788	29	240,214	65	9,949	14	314	13
54	4,149,130		2,605,447		289,494	79	7,596	10	343	9
55	4,065,745	47	2,583,573	46	184,541	64	10,257	25	252	14
56	3,948,702	64	1,994,417	66	124,651	22	24,160	80	83	16
57	3,888,862	73	1,610,031	36	201,254	60	12,251	68	131	8
58	3,864,687	69	1,836,869	70	114,804	75	8,350	34	220	16
59	3,804,595	49	2,524,647	72	109,767	9	30,461	79	83	23
60	3,795,406	50	2,503,497	57	156,469	54	13,648	47	183	16
61	3,771,702	55	2,368,824	55	157,922	72	9,070	23	261	15
62	3,657,010	41	3,052,685	18	277,517	50	14,857	37	205	11
63	3,648,171	65	1,991,165	48	181,015	56	12,500	55	159	11
64	3,574,715	35	3,344,403	38	196,730	76	8,220	4	407	17
65	3,566,477	57	2,315,698	51	165,407	53	14,097	53	164	14
66	3,520,515	60	2,147,790	74	102,276	43	16,699	69	129	21
67	3,330,766	75	1,497,311	69	115,177	77	8,023	45	187	13
68	3,281,017	58	2,312,695	52	165,193	80	7,253	12	319	14
69	3,260,787	70	1,780,809	67	118,721	62	10,765	51	165	15
70	3,232,517	72	1,622,555	76	95,444	63	10,526	58	154	17
71	3,173,427	61	2,041,729	50	170,144	38	19,030	76	107	12
72	3,161,747	63	2,005,000	37	200,500	49	14,881	67	135	10
73	3,130,430		1,931,789		148,599	78	7,793	29	248	13
74	3,128,765		2,015,716		251,965	82	6,566	15	307	8
75	2,791,046		1,510,110		151,011	66	9,882	59	153	10
76	2,767,411		734,951		45,934	81	6,950	77	106	16
77	2,646,119		1,443,102		180,388	67	9,825	61	147	8
78	2,640,856		671,950		31,998	48	15,000	86	45	21
79	2,600,337		1,019,000		92,636	70	9,131	74	112	11
80	2,573,369		899,021		56,189	68	9,809	78	92	16
81	2,485,345		1,306,826		100,525	69	9,242	63	141	13
82	2,173,200		350,000		29,167	83	5,500	84	64	12
83	2,131,781		1,125,000		112,500	52	14,116	82	80	10
84	2,088,033		1,418,550		157,617	57	12,470	72	114	9
85	1,280,710		659,960		94,280	89	3,400	40	194	7
86	1,013,350		216,067		43,213	87	3,741	85	58	5
87	1,000,478		114,541		19,090	73	8,483	89	14	6
88	815,926		81,000		13,500	90	2,600	87	31	6
89	481,259		60,411		12,082	88	3,527	88	17	5
90	89,354		00,411		0	86	4,570	90	0	10
	, -									

AAMC Comparison

Each year the Association of American Medical Colleges (AAMC) publishes Faculty Salary Survey Reports based on information it has gathered from medical colleges across the US and Canada.

The data are divided into Basic Sciences Departments, which includes Departments of Physiology, and Clinical Science Departments.

In order to offer a comparison with the data collected by the Association of Chairs of Departments of Physiology in the accompanying article, below is a table showing median salaries as reported by AAMC in their 2001 survey.

The complete 2001 AAMC Faculty Salary Survey Reports can be pur-

chased from the AAMC publications office (202-828-0416 or http://www.aamc.org/publications/start.htm). The cost for constituents is \$75, plus shipping. ❖

Table 1. Salary Data for Faculty in Departments of Physiology

	PhD Degree	es	MD Degrees		
	Median salary	n	Median salary	n	
Chair	\$166,000	74	\$200,000	20	
Professor	108,000	616	131,000	68	
Associate Professor	77,000	395	84,000	20	
Assistant Professor	63,000	365	54,000	32	
Instructor	42,000	65	51.000	9	

75th APS President

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in active physiology laboratories, helping them develop classroom exercises for their students, and making available a variety of curricular resources for their use. Many of those who have participated are "master teachers" who return to their districts and "spread the word" to other teachers with whom they interact. Although we don't know if this program has increased the number of students interested in studying physiology, it is likely to have had a positive effect of their view of physiology.

In concert with the 2000 Strategic Plan, we have also begun to reach out to undergraduates with the APS Undergraduate Summer Research Fellowships. This summer's class of 12 will be the third to participate in this program which is designed to encourage talented undergraduates to pursue graduate training in the physiological sciences by introducing them to an exciting research experience.

But there is more that we can do. We can make the APS website the premier place to find out what's new and exciting about physiology. Our Sections are an obvious resource, and I will be asking them to help provide content for a "What's New in Physiology" site. In addition, the Careers Committee and the Education Office have begun to develop vignettes, member profiles, and case studies to illustrate the rich-

ness and excitement of research in physiology. These examples will be designed with input from the Sections and will have increasing complexity as they are directed to different audiences.

Another strategy for conveying the excitement and diversity of modern physiology that I intend to explore is the creation of a "Speakers Bureau" whose members would be willing to their research students/faculty at local undergraduate institutions. This would complement the web-based instructional resource site that the Education Committee is currently developing. We are already reaching out to teachers of undergraduate physiology courses via our interaction with members of the Human Anatomy and Physiology Society (HAPS) at their annual meeting where APS sponsors an update lecture. This year, I will be meeting with a focus group of these instructors to discuss ways to promote physiology and physiological research to their students.

While it is difficult to know how effective the above programs will be, they all hold a promise for increasing the appreciation of physiology in the eyes of students as well as the public.

The Translational Research Initiative

Our new initiative on Translational

Research, which was part of the 2000 Strategic Plan, should also enhance the visibility of physiology to students, colleagues, and the public as it reinvigorates the bi-directional transfer of ideas and information between the basic sciences and clinical medicine. Under the stewardship of President John Hall, we have established a Task Force with objectives that include highlighting translational research in our publications and our meetings, encouraging the development of interdisciplinary research teams that bridge molecular, cellular, and organ systems physiology with clinical research, promoting translational research as a viable career option for physiologists, and increasing the impact of physiology on medical and postgraduate medical education. We have already begun work on these objectives. Our journal editors have called for the submission of translational research manuscripts. APS is sponsoring symposia at the American Society of Nephrology and the American Gastroenterology Association. The Publications Committee has negotiated renewal of the "Physiology in Medicine" series in the Annals of Internal Medicine; the Program Committee continues to encourage and support cross-sectional, cross-society bench-to-bedside programming, and the Education Committee has initiated the development of a resource