

***SOCIETY MEMBERSHIP PROFILE:
2004 REPORT***

U.S. Residents Only

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The AIP Membership Sample Survey is the largest survey conducted by AIP's Statistical Research Center (SRC). More than 21,600 individuals, approximately one-fourth of the U.S. members of AIP's Member Societies, were selected on the basis of a stratified random sample and asked to report their salary and employment data as of March 2004. Nearly 12,300 responded after three e-mail requests for an overall response rate of 57%. The data represent responses from members of the American Physical Society, Optical Society of America, Acoustical Society of America, The Society of Rheology, American Association of Physics Teachers, American Crystallographic Association, American Astronomical Society, American Association of Physicists in Medicine, AVS Science and Technology Society, and American Geophysical Union. Within the research portion of its mission, the SRC collects, analyzes, and disseminates data on education and employment in physics and related fields.

Table 1. Society membership figures, 1986 to 2004.

Year	APS	OSA	ASA	SoR	AAPT	ACA	AAS	AAPM	AVS	AGU
2004	43297	14414	6977	1777	10426	2002	6803	4741	5303	37780
2003	42830	13291	7231	1672	10395	2005	6438	4826	4932	33401
2002	42007	13688	6629	1610	10041	2061	6049	4425	5239	34043
2001	41570	14441	6988	1633	10176	2100	6429	4590	5148	31169
2000	42622	12528	7304	1619	10476	2100	6270	4535	5397	32590
1999	41477	11746	7014	1616	11352	2256	6265	4412	5515	32000
1998	40767	11620	7215	1821	11633	2299	6092	4334	5960	31772
1997	41500	11491	7058	1657	11573	2247	6170	4281	5884	30468
1996	41000	10906	7143	1506	11343	2272	6101	4290	5576	29989
1995	41670	11522	7080	1416	11220	2100	6355	4155	5602	28855
1994	43173	11377	7108	1333	11176	2100	6380	3768	5375	28751
1993	43710	12040	6609	1269	11178	2015	6280	3691	5547	28061
1992	43207	12045	6918	1204	10853	2135	6000	3382	5600	27013
1991	41645	11405	6860	1110	10863	2010	5610	3044	5483	25244
1990	41753	10350	6650	1061	10664	2086	5346	2975	5482	24706
1989	41251	10440	6350	1027	10267	2112	5068	2843	5956	22586
1988	39396	10344	6180	1063	10101	2011	4729	2686	5650	21182
1987	39767	9763	6050	1177	10411	1830	4517	2524	5750	19573
1986	36830	9359	5880	1156	10361	1700	4349	2434	5766	17272

Source: Handbook for AIP Member Society Officers 1986 to 2004

APS = American Physical Society
 OSA = Optical Society of America
 ASA = Acoustical Society of America
 SoR = Society of Rheology
 AAPT = American Association of Physics Teachers

ACA = American Crystallographic Association
 AAS = American Astronomical Society
 AAPM = American Association of Physicists in Medicine
 AVS = AVS – The Science & Technology Society
 AGU = American Geophysical Union

Table 2. Society cross-membership (U.S. members only), 2004. ^(a)

	APS %	OSA %	ASA %	SoR %	AAPT %	ACA %	AAS %	AAPM % ^(b)	AVS %	AGU %
APS	78	22	5	20	27	10	16	5	22	4
OSA	6	73	1	1	2	0	1	0	3	1
ASA	1	1	90	1	1	-	0	1	-	1
SoR	1	0	0	80	-	1	-	-	0	-
AAPT	8	2	2	-	69	1	4	1	2	1
ACA	1	0	-	1	0	88	-	-	-	0
AAS	3	1	0	-	3	-	72	-	0	4
AAPM ^(b)	1	0	1	-	0	-	-	94	0	-
AVS	3	2	-	0	1	-	0	0	75	0
AGU	3	3	5	-	2	1	13	-	0	91
Total respondents	3360	865	435	107	1085	146	734	447	395	2175

^(a) Percents should be read as columns not as rows (e.g., 8% of APS members also belong to AAPT, while 27% of AAPT members also belong to the APS. Numbers along the diagonal (upper left to lower right) represent the percent of members who belong to only that society (e.g. 75% of AVS members belong to AVS and none of the other nine societies). Columns add to more than 100% because some members belong to 3 or more of the 10 AIP Member Societies. Numbers are derived from a sample of U.S. resident members in each society. Retired and student members are excluded.

^(b) 2002 data.

Source: AIP Member Society Survey: 2004 Society Profiles, by Raymond Y. Chu

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Table 3. Professional self-identification for each society (U.S. members only), 2004. ^(a)											
	APS	OSA	ASA	SoR	AAPT	ACA	AAS	AAPM	AVS	AGU	All ^(c)
	%	%	%	%	%	%	%	% ^(b)	%	%	%
Physicist	62	40	6	7	47	5	6	91	22	3	35
Engineer	11	39	25	45	4	3	3	3	30	6	12
Astronomer	4	1	0	-	3	0	81	-	0	5	7
Geologist	0	0	0	-	1	-	0	-	-	20	6
Atmospheric scientist	1	3	0	-	1	-	2	-	-	17	5
Chemist	5	4	-	11	2	15	0	1	15	8	5
Material scientist	10	4	0	26	2	11	0	-	26	1	5
Geophysicist	0	0	2	-	1	-	0	-	-	13	4
Ocean scientist	0	0	4	-	0	-	0	-	-	12	4
Hydrologist	0	-	-	-	-	-	-	-	-	8	2
Life scientist	1	2	15	1	1	12	-	-	1	2	2
Acoustician	0	0	33	-	0	-	-	-	-	0	2
Crystallographer	0	-	-	-	-	48	-	-	0	0	1
Other scientist	3	3	10	10	4	4	2	4	1	2	3
Non-scientist	3	4	5	-	34 ^(d)	2	6	1	5	3	7
Total respondents	3360	865	435	107	1085	146	734	447	395	2175	9799

^(a) Excludes full-time students and retired members.

^(b) 2002 data.

^(c) "All" represents the total unduplicated membership of all 10 societies, that is, each person who belongs to more than one society is only counted once.

^(d) Many AAPT members identify themselves as educators rather than as discipline-specific scientists.

Source: AIP Member Society Survey: 2004 Society Profiles, by Raymond Y. Chu

Table 4. Employment sector for each society (U.S. members only), 2004. ^(a)

	APS %	OSA %	ASA %	SoR %	AAPT %	ACA %	AAS %	AAPM % ^(b)	AVS %	AGU %	All ^(c) %
ACADEMIC											
University	40	25	26	31	24	39	44	3	24	36	33
4-Year college	5	2	3	-	15	2	5	0	1	3	4
2-Year college	1	0	-	-	10	-	2	0	1	1	2
Secondary school	1	0	0	-	43	-	1	-	-	1	5
Medical school	1	1	7	2	0	10	0	26	-	-	3
UARI ^(d)	3	3	6	-	0	4	12	0	1	7	4
NON-ACADEMIC											
Industry and self-employed											
	21	50	39	55	4	27	9	19	54	16	23
Government	8	9	10	4	2	5	11	4	6	20	10
FFR&DC ^(d)	18	8	3	5	1	10	12	1	11	8	10
Hospitals and medical services	0	1	2	-	0	1	0	46	-	0	3
Non-profit	1	1	3	1	1	2	4	1	2	5	2
Other	1	0	1	2	0	-	0	-	-	3	1
Total respondents	3276	837	421	106	1071	145	723	447	383	2106	9591

^(a) Excludes full-time students and retired members.

^(b) 2002 data.

^(c) "All" represents the total unduplicated membership of all 10 societies.

^(d) UARI = University-affiliated research institutes and university-affiliated observatories
FFR&DC = Federally-Funded Research and Development Center

Source: AIP Member Society Survey: 2004 Society Profiles, by Raymond Y. Chu

Table 5. Level of highest degree for each society (U.S. members only), 2004. ^(a)

	APS	OSA	ASA	SoR	AAPT	ACA	AAS	AAPM	AVS	AGU	All ^(c)
	%	%	%	%	%	%	%	% ^(b)	%	%	%
Doctorate	93	75	67	83	48	91	89	50	72	79	77
Masters	5	15	19	10	39	5	6	47	12	17	17
Bachelors	2	8	12	7	12	3	5	2	13	4	5
Associates	0	1	1	-	0	-	0	0	3	0	0
Professional	0	1	1	-	1	1	0	1	0	0	1
Total respondents	3360	865	435	107	1085	146	734	447	395	2175	9799

^(a) Excludes full-time students and retired members.

^(b) 2002 data.

^(c) "All" represents the total unduplicated membership of all 10 societies.

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Table 6. Primary work activity for each society (U.S. members only), 2004. ^(a)

	APS	OSA	ASA	SoR	AAPT	ACA	AAS	AAPM	AVS	AGU	All ^(c)
	%	%	%	%	%	%	%	% ^(b)	%	%	%
Basic research	36	16	22	16	4	52	44	2	17	35	28
Applied research-long range	13	19	15	17	1	11	5	5	16	12	11
Applied research-short range	6	14	9	28	1	8	3	5	12	10	7
Engineering, design, or development	7	20	12	7	1	3	5	3	26	4	8
Teaching	19	10	13	14	80	9	20	2	8	15	21
Clinical or patient care	0	0	2	-	0	-	-	60	0	-	5
Administration	10	13	9	11	7	8	10	8	12	9	9
Consulting	2	4	15	1	1	1	2	8	1	6	4
Other	6	4	4	6	4	9	10	7	8	8	7
Total respondents	3360	865	435	107	1085	146	734	447	395	2175	9799

^(a) Excludes full-time students and retired members.

^(b) 2002 data.

^(c) "All" represents the total unduplicated membership of all 10 societies.

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