

# **ANNUAL REPORT OF THE SECRETARY**

1989



**THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, Inc.**

345 East 47th Street, New York, N.Y. 10017, U.S.A



**IEEE**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.  
345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 236411

To the Board of Directors of  
The Institute of Electrical and Electronics Engineers, Inc.

Dear Members of the Board:

Part I of the Report of the Secretary for 1989 is presented herewith. It contains information on:

- IEEE Membership Statistics
- Student Branch Membership Statistics
- Society Membership and Chapter Statistics
- Society Affiliate Statistics
- Member Technical Interest and IEEE Meeting/Conference Activity
- Organization Statistics
- Publications Statistics
- Educational Activities Statistics

Part II of the Report contains annual reports of the Institute's Boards and Committees, on file in Headquarters, the contents of which are summarized in various issues of THE INSTITUTE.

Respectfully submitted,

Hugo Ruechardt  
Secretary, 1989

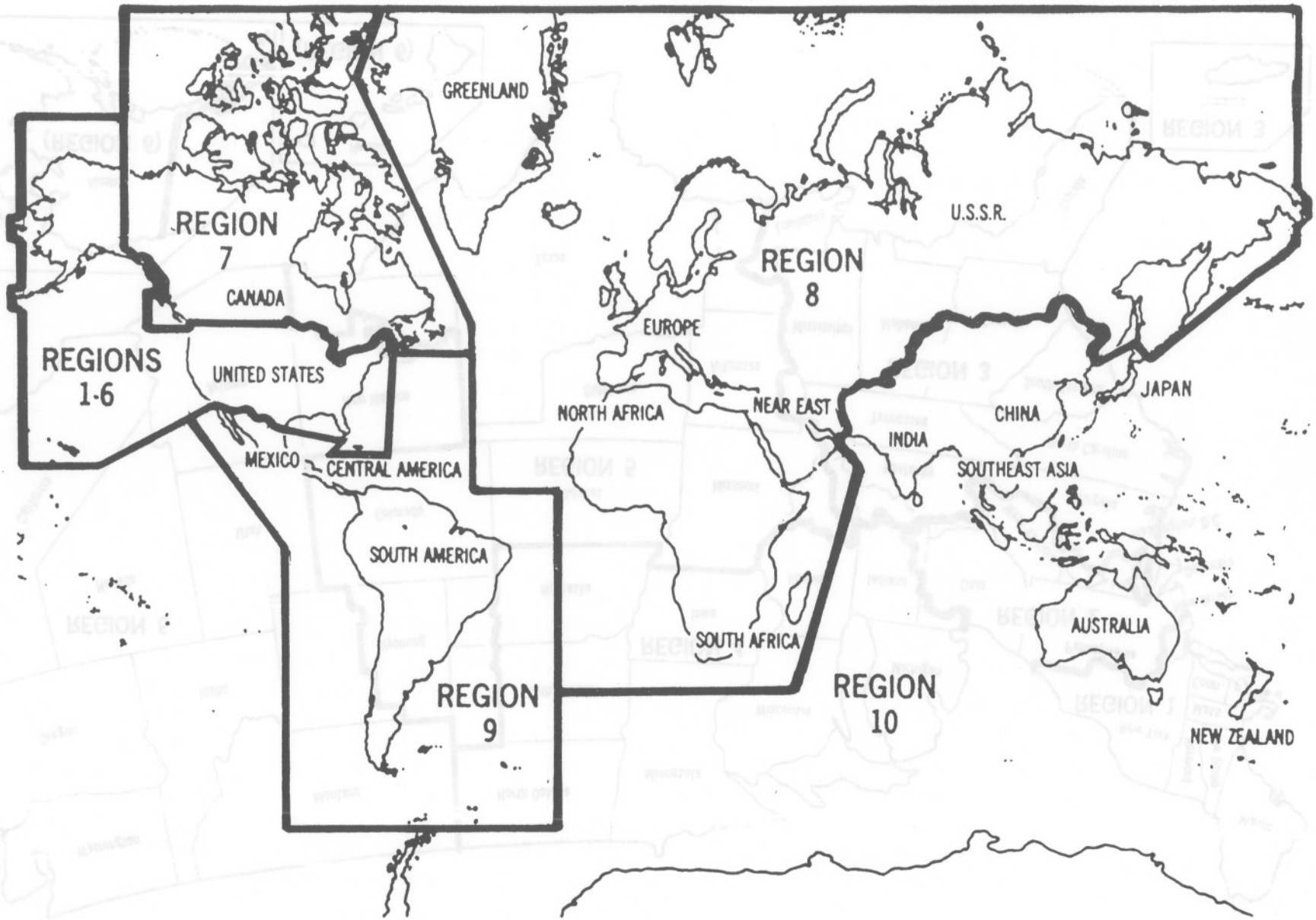
February 1990

## TABLE OF CONTENTS

MAPS - REGIONAL ALIGNMENT	Page
Regions 1 - 6 . . . . .	1
Regions 1 - 10 . . . . .	2
SECTION A - IEEE MEMBERSHIP STATISTICS	
Table 1 Membership by Region and Grade . . . . .	3
Table 2 Membership by Region; 3 Year Comparison . . . . .	3
Table 3 Life Members by Grade; 3 Year Comparison . . . . .	4
Table 4 Women Members by Grade; 3 Year Comparison . . . . .	4
Table 5 Membership by Grade, 1963-1989 . . . . .	4
Table 6 Membership Changes by Grade; 3 Year Comparison . . . . .	5
Table 7 Region 1 Membership by Section, by Grade . . . . .	6
Region 2 Membership by Section, by Grade . . . . .	7
Region 3 Membership by Section, by Grade . . . . .	8
Region 4 Membership by Section, by Grade . . . . .	10
Region 5 Membership by Section, by Grade . . . . .	11
Region 6 Membership by Section, by Grade . . . . .	12
Region 7 Membership by Section, by Grade . . . . .	14
Region 8 Membership by Section, by Grade . . . . .	15
Region 8 Membership Not Assigned to Sections . . . . .	16
Region 9 Membership by Section, by Grade . . . . .	18
Region 9 Membership Not Assigned to Sections . . . . .	19
Region 10 Membership by Section, by Grade . . . . .	20
Region 10 Membership Not Assigned to Sections . . . . .	21
SECTION B - STUDENT BRANCH MEMBERSHIP STATISTICS	
Table 1 Student Branches and Student Branch Membership . . . . .	22
SECTION C - SOCIETY MEMBERSHIP AND CHAPTER STATISTICS	
Table 1 Societies by Division . . . . .	40
Table 2 Society Membership, by Division, by Society, by Grade; 3 Year Comparison . . . . .	41
Table 3 Society Membership, by Region, by Section, by Society . . . . .	42
Table 4 Number of Society Members Held by IEEE Members, by Region, by Section . . . . .	48
Table 5 Chapters, by Society, by Section . . . . .	54
SECTION D - SOCIETY AFFILIATES STATISTICS	
Table 1 Society Affiliates by Society; 5 Year Comparison . . . . .	62
SECTION E - MEMBER TECHNICAL INTEREST AND IEEE MEETING/CONFERENCE ACTIVITY	
Table 1 Member Technical Interest Profile . . . . .	63
Table 2 Section and Chapter Meetings Summary - 1988 . . . . .	64
Table 3 Chapter Meetings by Society, by Region - 1988 . . . . .	65
Table 4 IEEE Sponsored and Cosponsored Conferences Summary by Society, by Region - 1989 . . . . .	66
SECTION F - ORGANIZATION STATISTICS	
Table 1 Organizational Units of the IEEE, by Region . . . . .	67
Table 2 Council, Section and Subsection Actions . . . . .	68
Table 3 Chapter Changes . . . . .	69
Table 4 Student Branch Changes . . . . .	71
SECTION G - PUBLICATIONS STATISTICS	
Table 1 IEEE Periodical Publications Output . . . . .	72
Table 2 IEEE Nonserial Publications Output . . . . .	73
SECTION H - EDUCATIONAL ACTIVITIES STATISTICS . . . . .	
	74
SECTION I - STANDARDS ACTIVITIES STATISTICS . . . . .	
	75







## SECTION A

TABLE 1 - IEEE MEMBERSHIP BY REGION AND GRADE  
DECEMBER 31, 1989

	H	F	SM	M	VOTING MEMBERS	A	HIGHER GRADE SUBTOTAL	S	TOTAL MEMBERSHIP	% OF TOTAL
REGION 1	3	1,039	4,647	36,345	42,034	4,721	46,755	6,472	53,227	17.0
REGION 2	1	611	3,599	26,855	31,066	2,826	33,892	5,098	38,990	12.5
REGION 3		395	3,104	21,815	25,314	2,163	27,477	5,980	33,457	10.7
REGION 4	1	273	1,964	18,576	20,814	1,913	22,727	5,842	28,569	9.1
REGION 5	1	234	1,994	20,029	22,258	1,674	23,932	4,908	28,840	9.2
REGION 6	5	816	4,774	43,365	48,960	4,171	53,131	6,321	59,452	19.0
REG 1-6 SUBTOTAL	11	3,368	20,082	166,985	190,446	17,468	207,914	34,621	242,535	77.5
REGION 7		123	896	9,892	10,911	1,598	12,509	3,792	16,301	5.2
REGION 8	1	276	1,494	14,053	15,824	2,180	18,004	4,404	22,408	7.2
REGION 9		12	311	3,500	3,823	486	4,309	3,358	7,667	2.5
REGION 10	2	210	1,301	14,912	16,425	1,517	17,942	5,838	23,780	7.6
REG 7-10 SUBTOTAL	3	621	4,002	42,357	46,983	5,781	52,764	17,392	70,156	22.5
TOTAL	14	3,989	24,084	209,342	237,429	23,249	260,678	52,013	312,691	100.0
PERCENTAGE		1.3	7.7	67.0	76.0	7.4	83.4	16.6	100.0	

TABLE 2 - IEEE MEMBERSHIP BY REGION - 3 YEAR COMPARISON, 1987-1989

	DECEMBER 31, 1989		DECEMBER 31, 1988		DECEMBER 31, 1987	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
REGION 1	53,227	17.0	53,399	17.5	53,079	18.1
REGION 2	38,990	12.5	38,657	12.7	37,985	13.0
REGION 3	33,457	10.7	32,512	10.7	31,318	10.7
REGION 4	28,569	9.1	28,388	9.3	27,928	9.5
REGION 5	28,840	9.2	28,166	9.3	27,515	9.4
REGION 6	59,452	19.0	58,428	19.3	57,089	19.5
REG 1-6 SUBTOTAL	242,535	77.5	239,550	78.8	234,914	80.2
REGION 7	16,301	5.2	15,669	5.1	15,029	5.1
REGION 8	22,408	7.2	20,178	6.6	17,894	6.1
REGION 9	7,667	2.5	6,846	2.2	6,123	2.1
REGION 10	23,780	7.6	22,108	7.3	19,169	6.5
REG 7-10 SUBTOTAL	70,156	22.5	64,801	21.2	58,215	19.8
TOTAL	312,691	100.0	304,351	100.0	293,129	100.0

## SECTION A

TABLE 3 - IEEE LIFE MEMBERS BY GRADE - 3 YEAR COMPARISON

	DEC. 31, 1989	DEC. 31, 1988	DEC. 31, 1987
FELLOW	1,810	1,771	1,730
SENIOR MEMBER	8,129	7,596	7,116
MEMBER	7,431	6,469	5,685
ASSOCIATE	670	593	534
TOTAL	18,040	16,429	15,065

TABLE 4 - IEEE WOMEN MEMBERS BY GRADE - 3 YEAR COMPARISON

	DEC. 31, 1989	DEC. 31, 1988	DEC. 31, 1987
FELLOW	14	13	13
SENIOR MEMBER	168	150	136
MEMBER	10,141	9,666	9,230
ASSOCIATE	1,420	1,191	1,034
STUDENT	5,857	6,142	5,986
TOTAL	17,600	17,162	16,399

TABLE 5 - IEEE MEMBERSHIP BY GRADE, 1963 - 1989

YEAR	H	F	SM	M	VOTING MEMBERS	A	HIGHER GRADE SUBTOTAL	S	TOTAL
1963	5	2,589	26,274	82,750	111,618	14,215	125,833	28,676	154,509
1964	5	2,598	26,182	87,435	116,220	13,682	129,902	24,076	153,978
1965	5	2,682	26,387	87,916	116,990	12,949	129,939	24,259	154,198
1966	5	2,759	26,254	97,834	126,852	14,114	140,966	19,104	160,070
1967	4	2,817	25,411	94,746	122,978	12,991	135,969	22,248	158,217
1968	4	2,885	25,023	97,326	125,238	13,200	138,438	23,930	162,368
1969	4	2,917	24,815	101,058	128,794	13,235	142,029	24,319	166,348
1970	4	2,951	24,229	104,053	131,237	13,138	144,375	24,684	169,059
1971	4	3,004	23,802	105,919	132,729	12,766	145,495	20,987	166,482
1972	4	3,019	23,281	108,725	135,029	11,984	147,013	20,210	167,223
1973	4	3,017	22,561	108,854	134,436	11,210	145,646	22,169	167,815
1974	3	3,061	22,422	115,287	140,773	10,955	151,728	21,795	173,523
1975	2	3,058	22,133	119,567	144,760	10,738	155,498	24,318	179,816
1976	2	3,038	21,470	118,507	143,017	10,239	153,256	25,360	178,616
1977	2	3,087	21,207	122,839	147,135	10,603	157,738	25,283	183,021
1978	1	3,238	21,256	126,168	150,663	11,068	161,731	29,643	191,374
1979	1	3,308	21,442	133,775	158,526	11,908	170,434	31,239	201,673
1980	1	3,362	21,742	141,411	166,516	12,514	179,030	34,782	213,812
1981	3	3,406	21,818	147,085	172,312	12,197	184,509	37,238	221,747
1982	6	3,465	22,076	156,240	181,787	12,138	193,925	40,151	234,076
1983	9	3,485	23,044	163,951	190,489	12,730	203,219	45,056	248,275
1984	11	3,547	23,437	173,714	200,709	14,529	215,238	47,413	262,651
1985	12	3,593	23,520	181,438	208,563	17,187	225,750	47,950	273,700
1986	13	3,678	23,704	188,939	216,334	18,483	234,817	47,891	282,708
1987	15	3,748	23,719	198,472	225,954	17,965	243,919	49,210	293,129
1988	14	3,852	23,848	202,721	230,435	21,235	251,670	52,681	304,351
1989	14	3,989	24,084	209,342	237,429	23,249	260,678	52,013	312,691

## SECTION A

TABLE 6 - IEEE MEMBERSHIP CHANGES, BY GRADE, DURING CALENDAR YEAR 1989, 3-YEAR COMPARISON

	H	F	SM	M	A	HIGHER GRADE SUBTOTAL	S	TOTAL
ACTIVE MEMBERSHIP 12/31/88	14	3,852	23,848	202,721	21,235	251,670	52,681	304,351
ADDITIONS								
ELECTIONS		1	174	15,263	496	15,934	28,524	44,458
DUES ARREARS PAID		113	979	17,214	2,393	20,699	3,826	24,525
REINSTATEMENTS		6	67	1,976	251	2,300	674	2,974
TRANSFERS TO		337	1,728	27,756	6,308	36,129	4,685	40,814
TOTAL ADDITIONS	0	457	2,948	62,209	9,448	75,062	37,709	112,771
DELETIONS								
RESIGNATIONS		1	57	815	137	1,010	60	1,070
DECEASED		87	253	298	34	672	5	677
DUES ARREARS		122	1,308	41,512	6,623	49,565	12,305	61,870
TRANSFERS FROM		110	1,094	12,963	640	14,807	26,007	40,814
TOTAL DELETIONS	0	320	2,712	55,588	7,434	66,054	38,377	104,431
ACTIVE MEMBERSHIP 12/31/89	14	3,989	24,084	209,342	23,249	260,678	52,013	312,691
GAIN/LOSS	0	+137	+236	+6,621	+2,014	+9,008	-668	+8,340
NET ARREARS	0	9	329	24,298	4,230	28,866	8,479	37,345
DECEMBER 31, 1989								
DECEMBER 31, 1988								
DECEMBER 31, 1987								
ADDITIONS								
ELECTIONS		44,458		45,881		40,086		
REINSTATEMENTS		2,974		2,041		2,095		
DUE ARREARS PAID		24,525		25,016		22,997		
TOTAL ADDITIONS		71,957		72,938		68,178		
DELETIONS								
RESIGNATIONS		1,070		344		1,239		
DECEASED		677		589		601		
DUES ARREARS		61,870		60,783		55,917		
TOTAL DELETIONS		63,617		+61,716		57,759		
NET GAIN/LOSS		+8,340		+11,222		+10,421		

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 1

GEO CODE				SECTION/SUBSECTION		H	F	SM	M	A	HIGHER GRADE SUBTOTAL	S	SUBSECTION TOTAL	SECTION TOTAL
R	C	S	SS											
01	00	01		BERKSHIRE		15	62	143	9	229	16		245	
01	00	03		BINGHAMTON		5	75	565	79	724	101		825	
01	01	05		BOSTON (CNEC)	2	211	879	7838	854	9784	1150		10934	
01	01	05	03	MERRIMACK VALLEY (CNEC)		(20)	(132)	(1558)	(166)	(1876)	(146)	(2022)		
01	01	05	01	NORTHSHORE (CNEC)		(7)	(36)	(320)	(30)	(393)	(28)	(421)		
01	00	07		BUFFALO		7	102	647	73	829	299		1128	
01	00	09		CONNECTICUT		48	361	2959	414	3782	422		4204	
01	00	09	05	DANBURY		(6)	(94)	(804)	(98)	(1002)	(68)	(1070)		
01	00	09	03	NEW LONDON		(7)	(31)	(378)	(28)	(444)	(42)	(486)		
01	00	13		ITHACA		23	22	162	15	222	178		400	
01	03	15		LONG ISLAND (METSAC)		72	405	2964	424	3865	274		4139	
01	01	17		MAINE (CNEC)		4	55	398	36	493	129		622	
01	00	19		MID-HUDSON		23	121	1102	112	1358	99		1457	
01	00	21		MOHAWK VALLEY		13	70	464	37	584	122		706	
01	00	21	01	ST. LAWRENCE INT'L		(3)	(13)	(90)	(11)	(117)	(77)	(194)		
01	01	23		NEW HAMPSHIRE (CNEC)		18	130	1314	178	1640	155		1795	
01	00	45		NEW JERSEY COAST		99	320	2203	210	2832	144		2976	
01	03	25		NEW YORK (METSAC)		100	500	4247	919	5766	1094		6860	
01	03	25	03	WESTCHESTER		(59)	(211)	(1465)	(224)	(1959)	(110)	(2069)		
01	03	27		NORTH JERSEY (METSAC)	1	136	559	4037	542	5275	552		5827	
01	03	29		PRINCETON (METSAC)		83	259	2069	277	2688	378		3066	
01	01	31		PROVIDENCE (CNEC)		22	104	1160	111	1397	209		1606	
01	00	33		ROCHESTER		14	104	1080	135	1333	287		1620	
01	00	35		SCHENECTADY		93	246	771	60	1170	263		1433	
01	00	37		SPRINGFIELD		11	33	286	31	361	193		554	
01	00	39		SYRACUSE		26	124	714	63	927	137		1064	
01	00	41		VERMONT		7	45	384	59	495	119		614	
01	01	43		WORCESTER COUNTY (CNEC)		9	71	838	83	1001	151		1152	
				<u>REGION 1 TOTALS</u>	3	1039	4647	36345	4721	46755	6472		53227	
				<u>COUNCIL TOTALS</u>										
01	01			CENTRAL NE COUNCIL (CNEC)	2	264	1239	11548	1262	14315	1794		16109	
01	03			METRO SEC ADV COUNCIL (METSAC)	1	391	1723	13317	2162	17594	2298		19892	

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

REGION 2		HIGHER GRADE							SUBSECTION	SECTION
GEO CODE	SECTION/SUBSECTION	H	F	SM	M	A	SUBTOTAL	S	TOTAL	
R C S SS										
02 00 01	AKRON		4	54	421	37	516	109		
02 00 21	ALLEGHENY MOUNTAIN		1	8	47	10	66	7	625	
02 00 03	BALTIMORE		41	366	3393	283	4083	313	73	
02 00 03 01	ANNAPOLIS		(10)	(90)	(990)	(75)	(1165)	(64)	4396	
02 00 05	CANTON			19	144	15	178	62	(1229)	
02 00 07	CENTRAL PENNSYLVANIA		12	63	276	21	372	364	240	
02 00 09	CINCINNATI		11	63	679	66	819	112	736	
02 00 11	CLEVELAND		27	169	1291	106	1593	236	931	
02 00 13	COLUMBUS		23	160	969	203	1355	446	1829	
02 00 13 05	ZANESVILLE			(4)	(15)	(8)	(27)	(6)	1801	
02 00 15	DAYTON		15	134	1168	109	1426	177	(33)	
02 00 17	DELAWARE BAY		6	57	380	40	483	84	1603	
02 00 47	EASTERN SHORE		4	20	104	17	145	13	567	
02 00 23	ERIE		3	41	146	16	206	41	158	
02 00 25	JOHNSTOWN		1	19	119	17	156	38	247	
02 00 27	LEHIGH VALLEY		30	155	1162	136	1483	255	194	
02 00 29	LIMA		3	16	84	12	115	58	1738	
02 00 31	NORTH CENTRAL OHIO			10	39	13	62	7	173	
02 01 49	NORTHERN VIRGINIA (NCAC)		59	473	4537	458	5527	380	69	
02 00 33	OHIO VALLEY			6	67	6	79	14	5907	
02 00 35	PHILADELPHIA		125	600	4379	448	5552	751	93	
02 00 37	PITTSBURGH	1	70	355	1834	167	2427	602	6303	
02 00 37 01	UPPER MONONGAHELA		(1)	(16)	(78)	(10)	(105)	(93)	3029	
02 00 39	SHARON		2	23	147	16	188	92	(198)	
02 00 41	SOUTHERN NEW JERSEY		4	20	154	8	186	19	280	
02 00 43	SUSQUEHANNA		6	63	523	93	685	119	205	
02 01 19	WASHINGTON (NCAC)		163	693	4656	513	6025	753	804	
02 01 19 01	WESTERN MARYLAND (NCAC)		(1)	(15)	(170)	(30)	(216)	(8)	6778	
02 00 45	WEST VIRGINIA		1	12	136	16	165	46	(224)	
	<u>REGION 2 TOTALS</u>	1	611	3599	26855	2826	33892	5098	38990	
	<u>COUNCIL TOTALS</u>									
02 01	NATL CAPITOL AREA COUNCIL (NCAC)		222	1166	9193	971	11552	1133	12685	

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 3

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS							SUBTOTAL	S		
03	00	01	ALABAMA		8	177	878	46	1109	285		1394
03	00	01 01	MONTGOMERY		(5)	(26)	(250)	(9)	(290)	(146)	(436)	
03	00	03	ATLANTA		35	288	2382	340	3045	1070		4115
03	00	03 05	ATHENS			(10)	(45)	(2)	(57)	(5)	(62)	
03	00	03 01	ROME		(1)	(15)	(66)	(7)	(89)	(17)	(106)	
03	00	05	BATON ROUGE		2	25	249	8	284	56		340
03	05	89	BROWARD (FC)		15	59	581	82	737	44		781
03	05	07	CANAVERAL (FC)		2	30	244	26	302	23		325
03	00	93	CENTRAL GEORGIA		1	18	262	11	292	60		352
03	01	67	CENTRAL NORTH CAROLINA (NCC)		3	27	237	43	310	74		384
03	03	81	CENTRAL SAVANNAH RIVER (SCC)			10	206	19	235	15		250
03	09	09	CENTRAL VIRGINIA (VC)		24	78	388	38	528	127		655
03	01	69	CHARLOTTE (NCC)		6	109	578	104	797	204		1001
03	07	11	CHATTANOOGA (TC)		4	77	246	23	350	41		391
03	03	83	COASTAL SOUTH CAROLINA (SCC)		14	50	275	28	367	59		426
03	03	85	COLUMBIA (SCC)		2	43	325	26	396	86		482
03	05	77	DAYTONA (FC)		4	36	175	19	234	9		243
03	07	13	EAST TENNESSEE (TC)		12	101	484	53	650	210		860
03	01	71	EASTERN NORTH CAROLINA (NCC)		33	181	1816	195	2225	512		2737
03	01	71 01	LOWER CAPE FEAR (NCC)			(12)	(79)	(11)	(102)	(7)	(109)	
03	00	15	EVANSVILLE-OWENSBORO			23	255	18	296	107		403
03	00	15 01	PADUCAH			(6)	(50)	(3)	(59)	(26)	(85)	
03	05	17	FLORIDA WEST COAST (FC)		71	350	1464	156	2041	238		2279
03	05	17 01	SARASOTA-BRADENTON (FC)		(41)	(149)	(235)	(36)	(461)	(11)	(472)	
03	05	21	GAINESVILLE (FC)		18	40	224	12	294	188		482
03	09	23	HAMPTON ROADS (VC)		4	65	698	42	809	141		950
03	00	25	HUNTSVILLE		4	81	1281	91	1457	156		1613
03	05	27	JACKSONVILLE (FC)			45	235	27	307	44		351
03	00	97	JAMAICA			9	82	29	120	26		146
03	00	29	LEXINGTON		3	21	295	13	332	69		401
03	00	31	LOUISVILLE		2	45	317	15	379	179		558
03	07	33	MEMPHIS (TC)			31	320	38	389	216		605
03	05	35	MIAMI (FC)		16	108	702	69	895	176		1071
03	07	37	MIDDLE TENNESSEE (TC)			30	73	2	105	11		116
03	00	39	MISSISSIPPI		3	32	352	26	413	141		554

DECEMBER 31, 1989

SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE



## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 3 (cont'd)

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
03 00 39 01	NE MISSISSIPPI		(1)	(13)	(94)	(3)	(111)	(106)	(217)	
03 00 41	MOBILE			20	168	10	198	81		279
03 07 43	NASHVILLE (TC)		9	59	395	34	497	214		711
03 00 45	NEW ORLEANS		1	98	649	50	798	79		877
03 05 57	NORTHWEST FLORIDA (FC)			27	338	15	380	37		417
03 07 49	OAK RIDGE (TC)		5	28	154	8	195	9		204
03 05 51	ORLANDO (FC)		13	140	909	74	1136	128		1264
03 05 53	PALM BEACH (FC)		24	119	842	108	1093	63		1156
03 03 87	PIEDMONT (SCC)		7	55	383	29	474	142		616
03 09 59	RICHMOND (VC)		6	66	517	52	641	29		670
03 00 61	SAVANNAH		2	6	69	6	83	16		99
03 05 95	SO BREVARD INDIAN RIVER (FC)		12	85	765	39	901	200		1101
03 05 55	TALLAHASSEE AREA (FC)		4	21	211	15	251	83		334
03 07 91	TRI CITIES (TC)		1	21	187	34	243	29		272
03 09 65	VIRGINIA MOUNTAIN (VC)		14	99	343	50	506	273		779
03 01 73	WESTERN NORTH CAROLINA (NCC)		10	45	145	13	213	11		224
03 01 75	WINSTON-SALEM (NCC)		1	26	116	27	170	19		189
<u>REGION 3 TOTALS</u>			395	3104	21815	2163	27477	5980		33457
<u>COUNCIL TOTALS</u>										
03 05	FLORIDA COUNCIL (FC)		179	1060	6690	642	8571	1233		9804
03 01	NO CAROLINA COUNCIL (NCC)		53	388	2892	382	3715	820		4535
03 03	SO CAROLINA COUNCIL (SCC)		23	158	1189	102	1472	302		1774
03 07	TENNESSEE COUNCIL (TC)		31	347	1859	192	2429	730		3159
03 09	VIRGINIA COUNCIL (VC)		48	308	1946	182	2484	570		3054

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 4

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
04 00 01	ARROWHEAD			21	170	15	206	62		268
04 00 45	CALUMET		2	37	348	54	441	127		568
04 00 03	CEDAR RAPIDS		5	58	334	27	424	63		487
04 00 05	CENTRAL ILLINOIS	1	51	90	484	29	655	375		1030
04 00 07	CENTRAL INDIANA		22	171	1276	156	1625	722		2347
04 00 07 01	BLOOMINGTON		(3)	(19)	(127)	(22)	(171)	(8)	(179)	809
04 00 09	CENTRAL IOWA		7	45	253	16	321	331		652
04 00 11	CHICAGO		67	466	4940	579	6052	715		6767
04 00 11 03	FOX VALLEY		(16)	(128)	(1627)	(192)	(1963)	(103)	(2066)	
04 00 11 05	NORTHWEST		(10)	(165)	(1671)	(171)	(2017)	(136)	(2153)	
04 00 13	FORT WAYNE		5	51	361	35	452	82		534
04 00 15	ILLINOIS VALLEY			19	174	7	200	42		242
04 00 17	IOWA-ILLINOIS		1	32	189	19	241	23		264
04 00 19	MADISON		9	64	408	25	506	232		738
04 00 33	MICHIANA		4	25	282	37	348	88		436
04 00 21	MILWAUKEE		18	156	1287	114	1575	434		2009
04 00 47	MISSOURI SLOPE			6	57	3	66	7		73
04 00 23	NEBRASKA		3	80	509	94	686	183		869
04 00 25	NORTHEAST MICHIGAN		1	24	259	32	316	86		402
04 00 27	NORTHEASTERN WISCONSIN			32	408	36	476	324		800
04 00 27 01	UPPER PENINSULA			(12)	(108)	(6)	(126)	(293)	(419)	1129
04 00 49	RED RIVER VALLEY		1	16	178	5	200	195		395
04 00 29	ROCK RIVER VALLEY			16	247	20	283	53		336
04 00 31	SIOUXLAND		2	18	121	12	153	56		209
04 00 35	SOUTHEASTERN MICHIGAN		48	248	2624	229	3149	970		4119
04 00 37	SOUTHERN MINNESOTA		2	14	333	41	390	57		447
04 00 37 01	COULEE		(1)	(3)	(45)	(2)	(51)	(3)	(54)	518
04 00 39	TOLEDO		2	48	329	37	416	118		534
04 00 41	TWIN CITIES		23	169	2509	224	2925	429		3354
04 00 43	WEST MICHIGAN			58	496	67	621	68		689
04 00 43 01	KALAMAZOO-BATTLE CREEK			(16)	(133)	(19)	(168)	(44)	(212)	
	<u>REGION 4 TOTALS</u>	1	273	1964	18576	1913	22727	5842		28569

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 5

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE	SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL		
05 00 01	ARKANSAS		2	50	331	45	428	79	507
05 00 03	BEAUMONT		1	16	148	3	168	65	233
05 00 05	CENTRAL TEXAS		38	135	2036	176	2385	621	3006
05 00 07	CORPUS CHRISTI		1	18	198	38	255	67	322
05 00 09	DALLAS	1	35	323	3875	285	4519	255	4774
05 00 11	DENVER		59	325	2880	226	3490	634	4124
05 00 11 01	BLACK HILLS		(2)	(7)	(77)		(86)	(68)	(154)
05 00 11 03	CENTENNIAL		(5)	(34)	(371)	(18)	(428)	(163)	(591)
05 00 13	EL PASO		6	49	365	15	435	234	669
05 00 15	FORT WORTH		7	101	1336	116	1560	189	1749
05 00 45	GALVESTON BAY		3	36	577	44	660	65	725
05 00 17	HOUSTON		16	229	2372	279	2896	753	3649
05 00 17 01	FREEPORT			(8)	(81)	(4)	(93)	(5)	(98)
05 00 19	KANSAS CITY		6	155	1067	140	1368	340	1708
05 00 19 01	SPRINGFIELD-JOPLIN		(1)	(17)	(93)	(13)	(124)	(15)	(139)
05 00 41	LAFAYETTE		2	7	154	6	169	108	277
05 00 21	OKLAHOMA CITY		4	68	396	34	502	176	678
05 00 37	OZARK		2	27	136	15	180	67	247
05 00 23	PANHANDLE			20	112	10	142	6	148
05 00 39	PERMIAN BASIN			5	68	7	80	2	82
05 00 43	PIKES PEAK		5	53	803	47	908	172	1080
05 00 25	SAINT LOUIS		32	199	2067	117	2415	607	3022
05 00 25 01	ROLLA		(3)	(9)	(99)	(2)	(113)	(207)	(320)
05 00 27	SHREVEPORT		2	29	224	6	261	97	358
05 00 27 01	MONROE			(1)	(39)		(40)	(5)	(45)
05 00 29	SOUTH PLAINS		4	15	135	7	161	137	298
05 00 31	TULSA		6	83	426	44	559	138	697
05 00 35	WICHITA		3	51	323	14	391	96	487
	<u>REGION 5 TOTALS</u>	1	234	1994	20029	1674	23932	4908	28840

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 6

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS							SUBTOTAL	S		
06	00	03	ALAMOGORDO-HOLLOMAN			7	46	2	55	3		58
06	00	05	ALASKA			14	224	26	264	39		303
06	00	05 03	FAIRBANKS			(7)	(45)	(1)	(53)	(29)	(82)	
06	00	01	ALBUQUERQUE		22	125	1007	63	1217	161		1378
06	00	07	BOISE		1	20	243	18	282	7		289
06	01	09	BUENAVENTURA (LAC)		5	84	1035	89	1213	43		1256
06	01	11	CHINA LAKE (LAC)			17	275	21	313	9		322
06	00	65	EASTERN MONTANA			6	68	1	75	4		79
06	01	13	FOOTHILL (LAC)		12	140	1118	130	1400	187		1587
06	00	15	FORT HUACHUCA			18	129	12	159	4		163
06	00	17	HAWAII		11	44	624	48	727	102		829
06	00	19	IDAHO			10	152	6	168	3		171
06	00	21	LAS VEGAS		1	25	192	13	231	43		274
06	00	71	LOS ALAMOS		2	52	210	16	280	10		290
06	01	23	METROPOLITAN LOS ANGELES (LAC)		32	73	628	54	787	286		1073
06	00	25	MONTANA		1	27	142	9	179	87		266
06	00	73	NORTHERN NEVADA		1	29	207	19	256	46		302
06	03	67	OAKLAND-EAST BAY (SFBAC)		67	257	2726	361	3411	488		3899
06	01	27	ORANGE COUNTY (LAC)		47	390	3517	317	4271	443		4714
06	00	29	PHOENIX		42	312	2562	168	3084	334		3418
06	00	31	PORTLAND		39	232	1949	207	2427	316		2743
06	00	33	RICHLAND		4	33	214	18	269	34		303
06	00	35	SACRAMENTO		14	115	1147	91	1367	393		1760
06	00	35 05	SAN JOAQUIN		(3)	(14)	(152)	(19)	(188)	(51)	(239)	
06	00	37	SAN DIEGO		43	328	2662	258	3291	401		3692
06	01	39	SAN FERNANDO VALLEY (LAC)		24	250	1646	209	2129	177		2306
06	03	41	SAN FRANCISCO (SFBAC)		19	189	1476	215	1899	145		2044
06	03	41 01	REDWOOD EMPIRE (SFBAC)		(3)	(31)	(280)	(21)	(335)	(5)	(340)	
06	01	43	SAN GABRIEL VALLEY (LAC)		27	121	868	84	1100	186		1286
06	01	45	SANTA BARBARA (LAC)		23	89	535	46	693	227		920
06	03	69	SANTA CLARA VALLEY (SFBAC)	5	220	851	9786	984	11846	700		12546
06	03	69 01	MONTEREY BAY (SFBAC)		(17)	(51)	(409)	(47)	(524)	(74)	(598)	
06	01	47	SANTA MONICA BAY (LAC)		67	178	1053	108	1406	197		1603
06	00	49	SEATTLE		34	290	2979	222	3525	356		3881
06	01	51	SOUTH BAY HARBOR (LAC)		23	207	2200	197	2627	192		2819

SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE

SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

REGION 6 (cont'd)

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
06 00 53	SPOKANE		1	44	273	24	342	243		585
06 00 55	TUCSON		20	101	517	33	671	176		847
06 00 57	UTAH		11	70	786	79	946	261		1207
06 00 59	VANDENBERG		2	14	119	16	151	5		156
06 00 61	WENATCHEE		1	12	50	7	70	13		83
	<b>REGION 6 TOTALS</b>	<b>5</b>	<b>816</b>	<b>4774</b>	<b>43365</b>	<b>4171</b>	<b>53131</b>	<b>6321</b>		<b>59452</b>

COUNCIL TOTALS

06 01 01 31	LOS ANGELES COUNCIL (LAC)		260	1549	12875	1255	15939	1947		17886
06 03 01 31	SF BAY AREA COUNCIL (SFBAC)	5	306	1297	13988	1560	17156	1333		18489

13

R C S SS      H      F      SM      M      A      HIGHER GRADE      S      SUBSECTION      SECTION  
GEO CODE      SECTION/SUBSECTION      TOTAL      TOTAL

REGION 1

SECTION V

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE

SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 7

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
07 03 33	CANADIAN ATLANTIC (ECC)		3	20	220	16	259	66		325
07 05 03	HAMILTON (CCC)		4	47	365	151	567	258		825
07 05 01	KINGSTON (CCC)		3	31	109	13	156	169		325
07 05 05	KITCHENER-WATERLOO (CCC)		4	30	261	54	349	127		476
07 05 07	LONDON (CCC)		1	19	189	49	258	101		359
07 03 09	MONTREAL (ECC)		38	162	1630	153	1983	623		2606
07 01 39	N SASKATCHEWAN (WCC)		3	8	129	8	148	161		309
07 03 35	NEW BRUNSWICK (ECC)			20	162	10	192	124		316
07 03 37	NEWFOUNDLAND-LABRADOR (ECC)		1	5	82	1	89	54		143
07 01 13	NORTHERN CANADA (WCC)			24	502	63	589	136		725
07 03 15	OTTAWA (ECC)		17	136	1679	167	1999	347		2346
07 05 41	PETERBOROUGH (CCC)		1	21	67	10	99	4		103
07 03 17	QUEBEC (ECC)			6	186	18	210	163		373
07 01 19	S SASKATCHEWAN(WCC)			15	102	14	131	72		203
07 03 21	SAINT MAURICE (ECC)			1	39	2	42	25		67
07 01 23	SOUTHERN ALBERTA (WCC)		3	18	538	93	652	114		766
07 05 25	TORONTO (CCC)		31	149	2204	541	2925	727		3652
07 01 27	VANCOUVER (WCC)		8	103	963	108	1182	228		1410
07 01 29	VICTORIA (WCC)		3	30	139	25	197	95		292
07 01 31	WINNIPEG (WCC)		3	51	326	102	482	198		680
<u>REGION 7 TOTALS</u>			123	896	9892	1598	12509	3792		16301
<u>COUNCIL TOTALS</u>										
07 05	CENTRAL CANADA COUNCIL (CCC)		44	297	3195	818	4354	1386		5740
07 03	EASTERN CANADA COUNCIL (ECC)		59	350	3998	367	4774	1402		6176
07 01	WESTERN CANADA COUNCIL (WCC)		20	249	2699	413	3381	1004		4385

DECEMBER 31, 1989

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE

## SECTION A

TABLE 7-8A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 8

GEO CODE				SECTION/SUBSECTION		HIGHER GRADE					SUBSECTION	SECTION
R	C	S	SS	H	F	SM	M	A	SUBTOTAL	S	TOTAL	TOTAL
08	00	37			2	19	165	23	209	88		297
08	00	01			33	123	1175	156	1487	671		2158
08	00	21			12	40	402	94	548	83		631
08	00	25			3	22	270	36	331	81		412
08	00	47				10	88	20	118	10		128
08	00	03			5	45	170	23	243	31		274
08	00	35			2	21	250	22	295	131		426
08	00	05			40	128	854	191	1213	68		1281
08	00	17			40	173	1457	283	1953	462		2415
08	00	29			3	26	405	42	476	241		717
08	00	29	01			(4)	(66)	(8)	(78)	(4)	(82)	
08	00	51			1	9	56		66	2		68
08	00	27				9	230	95	334	349		683
08	00	09			16	84	631	75	806	180		986
08	00	53				9	124	10	143	14		157
08	00	39				4	85	5	94	30		124
08	00	11			13	44	714	177	948	204		1152
08	00	13			2	33	237	31	303	25		328
08	00	33			1	35	65	9	110	17		127
08	00	45				10	165	51	226	147		373
08	00	43			1	49	448	45	543	52		595
08	00	43	01				(15)	(2)	(17)		(17)	
08	00	43	05			(26)	(169)	(17)	(212)	(3)	(215)	
08	00	41			1	17	305	32	355	69		424
08	00	23			1	31	675	188	895	339		1234
08	00	19			14	56	524	70	664	96		760
08	00	07			32	87	1095	121	1335	245		1580
08	00	55			1	7	124	7	139	62		201
08	00	49				14	136	20	170	4		174
08	00	15			1	49	294	240	2961	470		3431
08	00	31				14	308	39	361	69		430
08	00	88				4	81	518	75	678	164	842
<u>REGION 8 TOTALS</u>				1	276	1494	14053	2180	18004	4404		22408



## SECTION A

TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1989 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/89 TOTAL	12/31/88 TOTAL	12/31/87 TOTAL
ALGERIA				5		2	7	6	7
ANGOLA (W.AFRICA)				1			1	2	2
BAHREIN (ARABIAN GULF)			10	42	9	1	62	63	56
BATSUTOLAND			1	2			3	1	2
BOTSWANA (S.AFRICA)				11	1		12	7	5
BULGARIA			3	2	1	2	8	8	7
BURUNDI				1			1		
CAMEROON (C.AFRICA)				3			3	4	2
CANARY ISLANDS					1		1	1	
CYPRUS								4	61
CZECHOSLOVAKIA			5	6	4	1	16	18	18
GABON								2	1
GERMANY EAST & E BERLIN									2
GHANA (W.AFRICA)				11	1		12	13	7
GIBRALTAR				1			1	2	1
GUINEA				1			1		
ICELAND				37	4	6	47	48	40
IRAQ			9	31	2	5	47	41	34
IVORY COAST (W.AFRICA)			1	5	1		7	6	6
JORDAN			1	10	38	3	14	90	85
KUWAIT			1	15	126	9	124	243	255
LEBANON				4			4	6	6
LIBERIA (W.AFRICA)			2	3			5	5	8
MADAGASCAR			1	2			3		
MALAWI (C.AFRICA)			2	4			6	5	5
MALTA, ISLE OF			1	13			14	15	14
MOROCCO				8	1		9	8	6
MUSCAT/OMAN/UNITED ARAB EMIRATES									127
QATAR (ARABIAN GULF)			7	62	10	1	80	68	49
RUMANIA			7	14		1	22	24	19

SECTION B

SECTION C

DECEMBER 31, 1989  
IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE

SECTION A TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
 (cont'd) DECEMBER 31, 1989 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/89 TOTAL	12/31/88 TOTAL	12/31/87 TOTAL
SENEGAL (W.AFRICA)				2	1	1	4	5	2
SOUTHWEST AFRICA				1			1	1	2
SP LIBYAN ARAB JAMAHIRIYA			2	14	1		17	23	16
SUDAN				10	4		14	13	17
SWAZILAND (S.AFRICA)				6			6	3	2
SYRIA				13		2	15	16	14
TOGO				1			1		
TUNISIA				6	3	1	10	11	8
TURKEY								136	112
USSR		2	5	4	1		12	13	10
YEMEN ARAB REPUBLIC APO AND FPO				6	17	3	26	17	11
				22	1		23	30	26
MEMBERS NOT ASSIGNED TO IEEE SECTIONS	4	81	518	75	164		842	958	1045
MEMBERS ASSIGNED TO IEEE SECTIONS	272	1413	13535	2105	4240		21566	19220	16849
<b>TOTAL, REGION 8</b>	<b>276</b>	<b>1494</b>	<b>14053</b>	<b>2180</b>	<b>4404</b>		<b>22408</b>	<b>20178</b>	<b>17894</b>

## SECTION A

TABLE 7-9A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 9

GEO_CODE	SECTION/SUBSECTION	HIGHER GRADE							SUBSECTION TOTAL	SECTION TOTAL
		H	F	SM	M	A	SUBTOTAL	S		
R C S SS										
09 00 01	ARGENTINA		2	30	282	58	372	203		575
09 01 27	BAHIA (BC)			8	57	6	71	12		83
09 01 15	BRASILIA (BC)			1	66	10	77	29		106
09 00 03	CHILE			15	233	41	289	438		727
09 00 05	COLOMBIA			10	177	23	210	393		603
09 00 05 01	MEDELLIN			(3)	(14)		(17)		(17)	
09 05 33	COSTA RICA (CAPC)			6	82	6	94	15		109
09 00 29	ECUADOR			4	31	12	47	32		79
09 05 35	EL SALVADOR (CAPC)			11	68	20	99	33		132
09 05 37	GUATEMALA (CAPC)			6	114	13	133	177		310
09 05 39	HONDURAS (CAPC)				46	3	49	37		86
09 03 07	MEXICO (MC)		3	48	565	84	700	453		1153
09 03 07 07	CIUDAD JUAREZ (MC)				(1)		(1)	(1)	(2)	
09 03 07 03	GUADALAJARA (MC)			(3)	(43)	(4)	(50)	(7)	(57)	
09 03 07 09	GUANAJUATO (MC)			(5)	(32)	(9)	(46)	(11)	(57)	
09 03 31	MONTERREY (MC)			6	233	18	257	296		553
09 03 41	MORELOS (MC)			3	79	17	99	41		140
09 05 25	PANAMA (CAPC)			8	90	6	104	217		321
09 00 21	PERU		1	5	135	13	154	61		215
09 00 09	PUERTO RICO & CARIBBEAN		1	40	451	52	544	158		702
09 01 11	RIO DE JANEIRO (BC)		3	35	139	12	189	34		223
09 01 17	SAO PAULO (BC)		2	37	265	55	359	86		445
09 01 17 01	CAMPINAS (BC)			(3)	(31)	(6)	(40)	(5)	(45)	
09 00 43	URUGUAY			5	81	3	89	78		167
09 00 19	VENEZUELAN			26	144	20	190	404		594
09 00 45	WEST. PUERTO RICO			5	128	8	141	151		292
09 00 99	COUNTRIES OUTSIDE SECTIONS			2	34	6	42	10		52
	<u>REGION 9 TOTALS</u>		12	311	3500	486	4309	3358		7667
	<u>COUNCIL TOTALS</u>									
09 01	BRAZIL COUNCIL (BC)		5	81	527	83	696	161		857
09 05	CTRL AM PANAMA COUNCIL (CAPC)			31	400	48	479	479		958
09 03	MEXICAN COUNCIL (MC)		3	57	877	119	1056	790		1846

## SECTION A

TABLE 7-9B - IEEE MEMBERSHIP IN REGION 9 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1989 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/89 TOTAL	12/31/88 TOTAL	12/31/87 TOTAL
BELIZE				5			5	3	3
BOLIVIA				14	4	10	28	24	29
CAYMAN ISLANDS				4			4	2	2
GUYANA			1	4			5	8	7
NICARAGUA				1			1		
PARAGUAY			1	3	1		5	6	7
SURINAM				1			1	1	2
URUGUAY								69	23
APO AND FPO				2	1		3	7	6
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			2	34	6	10	52	120	79
MEMBERS ASSIGNED TO IEEE SECTIONS	12	309	3466	480	3348		7615	6726	6044
<u>TOTAL, REGION 9</u>	12	311	3500	486	3358		7667	6846	6123

## SECTION A

TABLE 7-10A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1989

## REGION 10

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
10 05 61	AUST CAPITOL TERR(ACT) (AUSC)		2	9	94	10	115	11		126
10 01 19	BANGALORE (IC)		2	35	170	23	230	293		523
10 00 51	BEIJING		3	199	175	40	417	45		462
10 00 51 01	SHANGHAI			(29)	(27)	(6)	(62)	(19)	(81)	
10 01 21	BOMBAY (IC)		4	82	426	63	575	431		1006
10 01 21 01	BARODA (IC)			(9)	(76)	(5)	(90)	(47)	(137)	
10 01 37	CALCUTTA (IC)		1	41	180	13	235	69		304
10 01 23	DELHI (IC)	1	1	87	350	13	452	260		712
10 01 23 03	UTTAR PRADESH (IC)			(17)	(101)	(4)	(122)	(140)	(262)	
10 00 07	HONG KONG		1	36	1380	130	1547	259		1806
10 01 49	HYDERABAD (IC)			20	180	13	213	253		466
10 00 59	INDONESIA			4	140	29	173	42		215
10 00 41	KARACHI			1	97	11	109	49		158
10 01 45	KERALA (IC)			17	180	7	204	349		553
10 01 55	KHARACPUR (IC)			18	33		51	3		54
10 00 17	KOREA		4	35	924	133	1096	882		1978
10 01 33	MADRAS (IC)		1	60	430	17	508	1092		1600
10 00 35	MALAYSIA			3	294	20	317	15		332
10 05 09	NEW SOUTH WALES (AUSC)		6	56	911	74	1047	141		1188
10 03 01	NEW ZEALAND NORTH (NZC)			7	124	18	149	47		196
10 03 39	NEW ZEALAND SOUTH (NZC)		1	11	172	7	191	41		232
10 00 03	PAKISTAN			23	118	11	152	24		176
10 05 53	QUEENSLAND (AUSC)		1	21	291	25	338	101		439
10 00 15	REPUBLIC OF THE PHILIPPINES			3	82	23	108	63		171
10 00 25	SINGAPORE			20	1273	105	1398	480		1878
10 05 57	SOUTH AUSTRALIA (AUSC)			12	168	17	197	89		286
10 00 11	TAIPEI		3	25	627	73	728	336		1064
10 00 29	THAILAND			13	121	16	150	66		216
10 00 13	TOKYO	1	179	402	4836	514	5932	232		6164
10 05 43	VICTORIAN (AUSC)		1	37	703	60	801	82		883
10 05 47	WESTERN AUSTRALIA (AUSC)			10	238	27	275	78		353
10 00 99	COUNTRIES OUTSIDE SECTIONS			14	195	25	234	5		239
	<u>REGION 10 TOTALS</u>	2	210	1301	14912	1517	17942	5838		23780
	<u>COUNCIL TOTALS</u>									
10 05	AUSTRALIAN COUNCIL (AUSC)		10	145	2405	213	2773	502		3275
10 01	INDIA COUNCIL (IC)	1	9	360	1949	149	2467	2750		5218
10 03	NEW ZEALAND COUNCIL (NZC)		1	18	296	25	340	88		428

## SECTION A

TABLE 7-10B - IEEE MEMBERSHIP IN REGION 10 NOT ASSIGNED  
DECEMBER 31, 1989 - 3 YEAR COMPI

COUNTRY	H	F	SM	M	A	S	12/3 TC
BANGLADESH			6	12	1		1
BORNEO/KALAMNTN/BRUNEI/SABAH/SARAWK			1	23	5		2
BURMA				2			
CAROLINE ISLANDS				1			1
FIJI ISLANDS				12	2		14
GILBERT ISLANDS				1			
GUAM			1	9	2	1	1
INDONESIA							
KAMPUCHEA							
MALDIVES				2			
MAURITIUS				14	3	1	1
NEPAL			2	3			
SAIPAN/MARIANA ISLANDS				3			
SEYCHELLES				1			
SOLOMON ISLANDS				1			
SRI LANKA (CEYLON)			1	43	5	2	1
TONGA ISLAND				1			
VIETNAM, NORTH & SOUTH			1				
WESTERN SAMOA				2			
APO AND FPO			<u>2</u>	<u>65</u>	<u>7</u>	<u>1</u>	<u>7</u>
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			14	195	25	5	2
MEMBERS ASSIGNED TO IEEE SECTIONS	2	210	1287	14717	1492	5833	235
<u>TOTAL, REGION 10</u>	2	210	1301	14912	1517	5838	237

SECTION B

TABLE 1-IEEE STUDENT BRANCHES AND STUDENT BRANCH MEMBERSHIP  
DECEMBER 31, 1989

REGION 1

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
BINGHAMTON	*BROOME COMMUNITY COLLEGE	13
	NEW YORK STATE UNIV OF-BINGHAMTON (C)	74
BOSTON	BOSTON UNIV (C,EMB)	160
	*FRANKLIN INST OF BOSTON	28
	HARVARD UNIV	53
	LOWELL UNIV OF (C)	147
	MASSACHUSETTS INST OF TECHNOLOGY	284
	MERRIMACK COLLEGE	9
	NORTHEASTERN UNIV (P)	371
	TUFTS UNIV	112
*WENTWORTH INST OF TECHNOLOGY	36	
BUFFALO	ALFRED UNIV	20
	BUFFALO UNIV AT SUNY/AB (C)	242
	NEW YORK STATE UNIV OF COLLEGE-BUFFALO	38
	*SUNY-ALFRED STATE COLLEGE	24
CONNECTICUT	*BRIDGEPORT ENGINEERING INST	13
	BRIDGEPORT UNIV OF (C)	49
	CONNECTICUT UNIV OF	80
	*GREATER NEW HAVEN STATE TECH COLLEGE	15
	*HARTFORD STATE TECHNICAL COLLEGE	21
	HARTFORD UNIV OF	39
	NEW HAVEN UNIV OF	34
	TRINITY COLLEGE	1
	U S COAST GUARD ACADEMY	16
	*WARD TECHNICAL COLLEGE	18
*WATERBURY STATE TECHNICAL COLLEGE	21	
YALE UNIV	56	
ITHACA	CORNELL UNIV	199
LONG ISLAND	HOFSTRA UNIV	26
	NEW YORK INST OF TECH-OLD WESTBURY	26
	*NEW YORK STATE UNIV OF-FARMINGDALE	13
	NEW YORK STATE UNIV OF-STONY BROOK	102
	POLYTECHNIC INST OF NEW YORK L I CENTER	49
MAINE	MAINE UNIV OF	99
	SOUTHERN MAINE UNIV OF	23
MID-HUDSON	*DUTCHESS COMMUNITY COLLEGE	4
	NEW YORK STATE UNIV OF COLLEGE NEW PALTZ	27
	U S MILITARY ACADEMY (C)	20
MOHAWK VALLEY	CLARKSON UNIV	162
	*NEW YORK A AND T COLLEGE-CANTON	3
	NEW YORK STATE UNIV OF INST OF TECH-UTICA	24
NEW HAMPSHIRE	DARTMOUTH COLLEGE	11
	*HESSER COLLEGE	0
	*NEW HAMPSHIRE TECHNICAL INST	16
	NEW HAMPSHIRE UNIV OF	94
NEW JERSEY COAST	MONMOUTH COLLEGE	40
	*UNION TECHNICAL INST	22
NEW YORK	*AERONAUTICS COLLEGE OF (C)	4
	*BRAMSON ORT TECH INST	0
	*BRONX COMMUNITY COLLEGE-DAY DIVISION	3
	COLUMBIA UNIV(C)	126

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.



## SECTION B

## REGION 1 (cont'd)

SECTION	SCHOOL	MEMBERSHIP
NEW YORK (cont'd)	COOPER UNION (C)	64
	MANHATTAN COLLEGE	58
	NEW YORK CITY COLLEGE OF (COM,MTT)	147
	*NEW YORK CITY TECHNICAL COLLEGE	17
	NEW YORK INST OF TECHNOLOGY	94
	NEW YORK STATE UNIV OF-MARITIME COLLRGE	28
	POLYTECHNIC UNIVERSITY (C)	279
	PRATT INST	39
	QUEENS COLLEGE-NEW YORK	9
	*QUEENSBOROUGH COMMUNITY COLLEGE(C)	36
	STATEN ISLAND COLLEGE OF-ST GEORGE CAMPUS	26
	*STATEN ISLAND COLLEGE OF-SUNNYSIDE CAMPUS	20
	*TECHNICAL CAREER INSTS (C)	19
	*WESTCHESTER COMMUNITY COLLEGE	27
NORTH JERSEY	FAIRLEIGH DICKINSON UNIV-DAY DIVISION	46
	*HUDSON COUNTY COMMUNITY COLLEGE	8
	*MORRIS COUNTY COLLEGE OF	12
	NEW JERSEY INST OF TECH	222
	STEVENS INST OF TECHNOLOGY	135
*UNION COUNTY COLLEGE	23	
PRINCETON	*DEVRY TECHNICAL INSTITUTE-WOODBRIDGE	75
	*MIDDLESEX COUNTY COLLEGE	17
	PRINCETON UNIV	82
	RUTGERS UNIV (EMB)	205
	TRENTON STATE COLLEGE	59
PROVIDENCE	BROWN UNIV	34
	RHODE ISLAND UNIV OF	87
	ROGER WILLIAMS COLLEGE	12
	SOUTHEASTERN MASSACHUSETTS UNIV (C)	49
ROCHESTER	ROCHESTER INST OF TECH-BRANCH A (C)	253
	ROCHESTER INST OF TECH-BRANCH B (C)	1
	ROCHESTER UNIV OF	65
SCHENECTADY	*HUDSON VALLEY COMMUNITY COLLEGE	5
	RENSSELAER POLYTECHNIC INST (C,P)	230
	UNION COLLEGE	32
SPRINGFIELD	MASSACHUSETTS UNIV OF (C)	182
	WESTERN NEW ENGLAND COLLEGE	33
SYRACUSE	SYRACUSE UNIV (C,EMB)	132
VERMONT	*CHAMPLAIN COLLEGE	10
	NORWICH UNIV (C)	37
	*VERMONT TECHNICAL COLLEGE	6
	VERMONT UNIV OF	66
WORCESTER COUNTY	CENTRAL NEW ENGLAND COLLEGE	6
	WORCESTER POLYTECHNIC INST (EMB)	146

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

( ) ALSO HAS STUDENT BRANCH CHAPTER OF THE INDICATED SOCIETY -  
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 CS-CONTROL SYSTEMS, ED-ELECTRON DEVICES, EMB-ENGINEERING IN  
 MEDICINE AND BIOLOGY, RM-ENGINEERING MANAGEMENT, IA-INDUSTRY  
 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

## SECTION B

## REGION 2

SECTION	SCHOOL	MEMBERSHIP
AKRON	AKRON UNIV OF (C)	156
BALTIMORE	*ANNE ARUNDEL COMMUNITY COLLEGE	9
	JOHNS HOPKINS UNIV	149
	LOYOLA COLLEGE	13
	U S NAVAL ACADEMY	2
CANTON	*KENT STATE UNIV-TUSCARAWAS	8
CENTRAL PENNSYLVANIA	BUCKNELL UNIV	39
	PENNSYLVANIA STATE UNIV (C)	476
CINCINNATI	CINCINNATI UNIV OF	76
	OMI COLLEGE OF APPLIED SCIENCE	12
CLEVELAND	CASE WESTERN RESERVE UNIV (C)	100
	CLEVELAND STATE UNIV	67
COLUMBUS	*COLUMBUS STATE COMMUNITY COLLEGE	11
	*DEVRY INST OF TECHNOLOGY-COLUMBUS	134
	*FRANKLIN UNIV	23
	*MUSKINGUM AREA TECH COLLEGE	9
	OHIO STATE UNIV (C)	255
	OHIO UNIV (C)	42
DAYTON	DAYTON UNIV OF	74
	*DAYTON UNIV OF-TECHNICAL INST	6
	*EDISON STATE COMMUNITY COLLEGE	2
	*SINCLAIR COLLEGE	23
	U S AIR FORCE INST OF TECHNOLOGY	21
	WRIGHT STATE UNIV (C)	50
DELAWARE BAY	DELAWARE UNIV OF	82
ERIE	CANNON UNIV	34
	*PENN STATE UNIV-BEHREND COLLEGE	21
JOHNSTOWN	PITTSBURGH UNIV OF-JOHNSTOWN	32
LEHIGH VALLEY	LAFAYETTE COLLEGE	42
	LEHIGH UNIV	113
	SCRANTON UNIV OF	20
	WILKES COLLEGE	31
LIMA	OHIO NORTHERN UNIV	57
NORTHERN VIRGINIA	GEORGE MASON UNIV (C)	198
PHILADELPHIA	DREXEL UNIV-DAY DIVISION (C)	260
	DREXEL UNIV-EV'NING COLLEGE	56
	PENNSYLVANIA UNIV OF (C)	130
	SPRING GARDEN COLLEGE	11
	SWARTHMORE COLLEGE	10
	TEMPLE UNIV (EMB)	161
	VILLANOVA UNIV OF	77
	WIDENER UNIV	42
PITTSBURGH	CARNEGIE MELLON UNIV	234
	*FAIRMONT STATE COLLEGE	21
	*PENNSYLVANIA STATE UNIV-MCKEESPORT	9
	PITTSBURGH UNIV OF (C)	136
	STUBENVILLE COLLEGE OF	19
	WEST VIRGINIA UNIV (C)	95
SHARON	GROVE CITY COLLEGE	40
	YOUNGSTOWN STATE UNIV	45
SUSQUEHANNA	PENNSYLVANIA STATE UNIV-CAPITOL	61

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 2

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SUSQUEHANNA (cont'd)	*PENNSYLVANIA STATE UNIV-YORK	19
WASHINGTON	CAPITOL INST OF TECHNOLOGY	57
	CATHOLIC UNIV OF AMERICA	24
	*DISTRICT OF COLUMBIA UNIV OF THE	49
	GEORGE WASHINGTON UNIV (C,COM,EMB)	182
	HOWARD UNIV	41
	MARYLAND UNIV OF	596
WEST VIRGINIA	WEST VIRGINIA INST OF TECHNOLOGY	39

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 PE-POWER ENGINEERING.

## SECTION B

## REGION 3

SECTION	SCHOOL	MEMBERSHIP
ALABAMA	ALABAMA UNIV OF (C)	83
	ALABAMA UNIV OF BIRMINGHAM	53
	AUBURN UNIV (C,P)	159
	TUSKEGEE UNIV	24
ATLANTA	*CHATTahoochee TECH INST	16
	*DEKALB TECH	14
	*DEVRY INST OF TECHNOLOGY-ATLANTA	145
	GEORGIA INST OF TECHNOLOGY (C,EMB,P)	771
	SOUTHERN TECHNICAL INST	126
BATON ROUGE	LOUISIANA STATE UNIV-BATON ROUGE (C)	45
	SOUTHERN UNIV	20
CANAVERAL	FLORIDA INST OF TECHNOLOGY (C)	212
CENTRAL GEORGIA	MERCER UNIVERSITY	27
CENTRAL NORTH CAROLINA	*CULLFORD TECHNICAL COMMUNITY COLLEGE	21
	NORTH CAROLINA A AND T STATE UNIV	50
CENTRAL SAVANNAH RIVER	*AUGUSTA AREA TECHNICAL SCHOOL	3
CENTRAL VIRGINIA	VIRGINIA UNIV OF	140
CHARLOTTE	*CENTRAL PIEDMONT COMMUNITY COLLEGE	31
	*CASTON COLLEGE	15
	NORTH CAROLINA UNIV OF-CHARLOTTE	164
CHATTANOOGA	*CHATTANOOGA STATE TECHNICAL INST	10
	TENNESSEE UNIV OF-CHATTANOOGA	34
COASTAL SOUTH CAROLINA	CITADEL THE	43
	*FLORENCE-DARLINGTON TECHNICAL COLLEGE	0
	*TRIDENT TECHNICAL COLLEGE	0
COLUMBIA	SOUTH CAROLINA UNIV OF	81
EAST TENNESSEE	*PELLISSIPPI STATE TECH COM COLLEGE	8
	TENNESSEE UNIV OF (C)	237
EASTERN NORTH CAROLINA	DUKE UNIV	68
	*FAYETTEVILLE TECHNICAL INST	9
	NORTH CAROLINA STATE UNIV (C,P)	400
	NORTH CAROLINA UNIV OF-CHAPEL HILL	32
	*SO ILLINOIS UNIV/STC	9
*WAKE TECHNICAL COLLEGE	4	
EVANSVILLE-OWENSBORO	EVANSVILLE UNIV OF	46
	MURRAY STATE UNIV	27
	SOUTHERN INDIANA UNIV OF	23
FLORIDA WEST COAST	SOUTH FLORIDA UNIV OF (C)	221
GAINESVILLE	FLORIDA UNIV OF (C)	203
HAMPTON ROADS	HAMPTON UNIV	3
	NORFOLK STATE UNIV	27
	OLD DOMINION UNIV (C)	100
HUNTSVILLE	ALABAMA A&M UNIV	0
	ALABAMA UNIV OF-HUNTSVILLE	118
JACKSONVILLE	NORTH FLORIDA UNIV OF	36
JAMAICA	COLLEGE OF ARTS SCIENCE AND TECH	24
LEXINGTON	KENTUCKY UNIV OF	84
LOUISVILLE	LOUISVILLE UNIV OF	161
	WESTERN KENTUCKY UNIV	25
MEMPHIS	*ARKANSAS STATE UNIV	37
	CHRISTIAN BROTHERS COLLEGE	33

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

## SECTION B

## REGION 3 (cont'd)

SECTION	SCHOOL	MEMBERSHIP
MEMPHIS (cont'd)	MEMPHIS STATE UNIV (C)	65
	*STATE TECHNICAL INST-MEMPHIS	10
	TENNESSEE UNIV OF-MARTIN	25
MIAMI	FLORIDA INTERNATIONAL UNIV	81
	MIAMI UNIV OF (C)	82
MISSISSIPPI	MISSISSIPPI STATE UNIV (EMB,P)	127
	MISSISSIPPI UNIV OF	65
	SOUTHERN MISSISSIPPI UNIV OF	12
MOBILE	SOUTH ALABAMA UNIV OF	87
NASHVILLE	TENNESSEE STATE UNIV	20
	TENNESSEE TECHNOLOGICAL UNIV (C)	100
	VANDERBILT UNIV	102
NEW ORLEANS	NEW ORLEANS UNIV OF	30
	TULANE UNIV (C)	43
NORTHWEST FLORIDA	WEST FLORIDA UNIV OF	28
ORLANDO	CENTRAL FLORIDA UNIV OF (C)	142
PALM BEACH	FLORIDA ATLANTIC UNIV	91
PIEDMONT	CLEMSON UNIV (C)	155
SAVANNAH	GEORGIA SOUTHERN COLLEGE	18
	SAVANNAH STATE COLLEGE	15
TALLAHASSEE AREA	FLORIDA A AND M UNIV	9
	FLORIDA A&M/FLORIDA STATE UNIV	72
TRI CITIES	*TRI CITIES STATE TECH INST	8
	*TRI-CITIES SECTION STUDENT BRANCH (C)	3
VIRGINIA MOUNTAIN	*SOUTHWEST VIRGINIA COMMUNITY COLLEGE	14
	VIRGINIA MILITARY INST	14
	VIRGINIA POLYTECHNIC INST & STATE U (C,P)	281
	*VIRGINIA WESTERN COMMUNITY COLLEGE	26

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

SECTION BREGION 4

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARROWHEAD	MINNESOTA UNIV OF-DULUTH (C)	54
	PURDUE UNIV-CALUMET	41
	*VALPARAISO TECHNICAL INST	27
	VALPARAISO UNIV	41
CEDAR RAPIDS	IOWA UNIV OF	62
	*NORTHERN IOWA UNIV OF	4
CENTRAL ILLINOIS	ILLINOIS UNIV OF-URBANA (C,EMB)	361
CENTRAL INDIANA	*ITT TECHNICAL INST-INDIANAPOLIS	51
	PURDUE UNIV-INDIANAPOLIS	70
	PURDUE UNIV-W LAFAYETTE (C)	629
	ROSE-HULMAN INST OF TECHNOLOGY	53
CENTRAL IOWA	IOWA STATE UNIV (C)	366
CHICAGO	DEPAUL UNIV	13
	DEVRY INST OF TECHNOLOGY-CHICAGO	126
	*DEVRY INST OF TECHNOLOGY-LOMBARD	41
	ILLINOIS INST OF TECHNOLOGY (C)	135
	ILLINOIS UNIV OF-CHICAGO (EMB)	200
	NORTHWESTERN UNIV (C)	99
FORT WAYNE	INDIANA INST OF TECHNOLOGY	9
	PURDUE UNIV-FORT WAYNE	41
	TRI-STATE UNIV (C)	14
ILLINOIS VALLEY	BRADLEY UNIV	47
MADISON	WISCONSIN UNIV OF-MADISON (C)	202
	WISCONSIN UNIV OF-PLATTEVILLE	37
MICHIANA	NOTRE DAME UNIV OF	81
MILWAUKEE	MARQUETTE UNIV	173
	MILWAUKEE SCHOOL OF ENGINEERING	177
	*WAUKESHA COUNTY TECHNICAL INST	25
	WISCONSIN UNIV OF-MILWAUKEE (C)	99
	WISCONSIN UNIV OF-PARKSIDE	2
NEBRASKA	*GATEWAY ELECTRONICS INST (C)	26
	NEBRASKA UNIV OF-LINCOLN	100
	*NEBRASKA UNIV OF-OMAHA	43
NORTHEAST MICHIGAN	GMI ENGINEERING AND MANAGEMENT INST	98
	SAGINAW VALLEY STATE COLLEGE	30
NORTHEASTERN WISCONSIN	*LAKE SUPERIOR STATE COLLEGE	17
	MICHIGAN TECHNOLOGICAL UNIV (C,P)	330
RED RIVER VALLEY	NORTH DAKOTA STATE UNIV (C,EMB)	170
	NORTH DAKOTA UNIV OF	55
	NORTHERN ILLINOIS UNIV	51
SIOUXLAND	DORDT COLLEGE	12
	SOUTH DAKOTA STATE UNIV	44
SOUTHEASTERN MICHIGAN	DETROIT UNIV OF (C)	20
	LAWRENCE INST OF TECHNOLOGY (C)	103
	MICHIGAN STATE UNIV	177
	MICHIGAN UNIV OF-ANN ARBOR	388
	MICHIGAN UNIV OF-DEARBORN	26
	OAKLAND UNIV	77
	*ST CLAIR COLLEGE OF TECH	6
	WAYNE STATE UNIV (C)	82
WINDSOR UNIV OF	59	

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 4 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SOUTHERN MINNESOTA	MANKATO STATE UNIV	59
TOLEDO	TOLEDO UNIV OF	97
	*TOLEDO UNIV OF COMMUNITY & TECH COLLEGE	27
TWIN CITIES	MINNESOTA UNIV OF	286
	ST CLOUD STATE UNIV	66
	*WISCONSIN UNIV OF-STOUT (C)	20
WEST MICHIGAN	WESTERN MICHIGAN UNIV (C)	48

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

01	WEST VIRGINIA UNIV	100
02	WEST VIRGINIA UNIV	100
03	WEST VIRGINIA UNIV	100
04	WEST VIRGINIA UNIV	100
05	WEST VIRGINIA UNIV	100
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96	WEST VIRGINIA UNIV	100
97	WEST VIRGINIA UNIV	100
98	WEST VIRGINIA UNIV	100
99	WEST VIRGINIA UNIV	100
00	WEST VIRGINIA UNIV	100

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH



## SECTION B

## REGION 5

SECTION	SCHOOL	MEMBERSHIP
ARKANSAS	*ARKANSAS COLLEGE OF TECHNOLOGY	14
	ARKANSAS UNIV OF-LITTLE ROCK	40
BEAUMONT	LAMAR UNIV	49
	MCNEESE STATE UNIV	15
CENTRAL TEXAS	ST MARY'S UNIV	31
	TEXAS UNIV OF-AUSTIN (C)	554
	TEXAS UNIV OF-SAN ANTONIO	37
	TRINITY UNIV	19
CORPUS CHRISTI	*DEL MAR COLLEGE (C)	28
	TEXAS A AND I UNIV	52
DALLAS	DEVRY INST OF TECHNOLOGY -IRVING	73
	EAST TEXAS STATE UNIV (C)	10
	SOUTHERN METHODIST UNIV (C)	60
	TEXAS UNIV OF-DALLAS	38
DENVER	COLORADO SCHOOL OF MINES	32
	COLORADO STATE UNIV (C)	101
	COLORADO UNIV OF-BOULDER	158
	COLORADO UNIV OF-DENVER	91
	DENVER UNIV OF	29
	METROPOLITAN STATE COLLEGE	56
	SOUTH DAKOTA SCHOOL OF MINES AND TECH	75
WYOMING UNIV OF	99	
EL PASO	NEW MEXICO STATE UNIV	176
	TEXAS UNIV OF-EL PASO	68
FORT WORTH	TEXAS CHRISTIAN UNIV (C)	6
	TEXAS UNIV OF-ARLINGTON (C)	136
GALVESTON BAY	HOUSTON UNIV OF-CLEAR LAKE	30
HOUSTON	HOUSTON UNIV OF-COLLEGE OF ENG	235
	HOUSTON UNIV OF-COLLEGE OF TECH	42
	PRAIRIE VIEW A AND M UNIV	22
	RICE UNIV (C)	68
	TEXAS A AND M UNIV (C,EMB)	253
	TEXAS A AND M UNIV-ENG TECH (COM,IA)	111
KANSAS CITY	CENTRAL MISSOURI STATE UNIV	23
	*DEVRY INST OF TECH-KANSAS CITY	19
	KANSAS STATE UNIV	122
	KANSAS UNIV OF	101
	MISSOURI UNIV OF-KANSAS CITY	63
SOUTHWEST MISSOURI STATE COLLEGE	7	
LAFAYETTE	SOUTHWESTERN LOUISIANA UNIV OF (C)	114
OKLAHOMA CITY	OKLAHOMA CHRISTIAN COLLEGE	40
	OKLAHOMA UNIV OF	127
OZARK	ARKANSAS UNIV OF	74
PIKES PEAK	COLORADO TECHNICAL COLLEGE	29
	COLORADO UNIV OF-COLORADO SPRINGS	106
	SOUTHERN COLORADO UNIV OF	30
	U S AIR FORCE ACADEMY	2
SAINT LOUIS	MISSOURI UNIV OF-COLUMBIA (C)	106
	MISSOURI UNIV OF-ROLLA (C)	300
	PARKS COLLEGE OF ST LOUIS UNIV	22
	SOUTHERN ILLINOIS UNIV	68

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SECTION B

REGION 5 (cont'd)

SECTION	SCHOOL	MEMBERSHIP
SAINT LOUIS (cont'd)	SOUTHERN ILLINOIS UNIV EDWARDSVILLE	53
	WASHINGTON UNIV	115
SHREVEPORT	LETOURNEAU COLLEGE	13
	LOUISIANA TECHNOLOGICAL UNIV	78
	NORTHWESTERN STATE U OF LOUISIANA	25
SOUTH PLAINS	TEXAS TECHNOLOGICAL UNIV	152
TULSA	*OKLAHOMA JUNIOR COLLEGE	20
	OKLAHOMA STATE UNIV (C)	71
	OKLAHOMA STATE UNIV-BRANCH B	28
	ORAL ROBERTS UNIV	8
	TULSA UNIV OF	37
WICHITA	WICHITA STATE UNIV	86

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 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

## SECTION B

## REGION 6

SECTION	SCHOOL	MEMBERSHIP
ALASKA	ALASKA UNIV OF	35
ALBUQUERQUE	NEW MEXICO UNIV OF (C)	149
FOOTHILL	CALIFORNIA POLYTECHNIC STATE UNIV (C)	125
	DEVRY INST OF TECHNOLOGY-LOS ANGELES	63
	HARVEY MUDD COLLEGE	41
HAWAII	HAWAII UNIV OF	87
IDAHO	IDAHO UNIV OF	68
LAS VEGAS	NEVADA UNIV OF LAS VEGAS	41
METRO LOS ANGELES	CALIFORNIA STATE UNIV-LOS ANGELES	188
	NORTHROP UNIV	14
	SOUTHERN CALIFORNIA UNIV OF	288
	WEST COAST UNIV	19
MONTANA	MONTANA STATE UNIV	78
	NORTHERN MONTANA COLLEGE	20
NORTHERN NEVADA	NEVADA UNIV OF RENO	46
OAKLAND-EAST BAY	CALIFORNIA STATE UNIV-FRESNO	68
	CALIFORNIA UNIV OF-BERKELEY (C)	319
ORANGE COUNTY	CALIFORNIA STATE UNIV-FULLERTON	100
	CALIFORNIA UNIV OF-IRVINE	189
PHOENIX	ARIZONA STATE UNIV (C)	197
	ARIZONA STATE UNIV-II-CET DEPT	18
	DEVRY INST OF TECHNOLOGY-PHOENIX	78
	NORTHERN ARIZONA UNIV	36
PORTLAND	*OREGON INST OF TECHNOLOGY	37
	OREGON STATE UNIV	162
	PORTLAND STATE UNIV	57
	PORTLAND UNIV (C)	46
RICHLAND	WALLA WALLA COLLEGE	20
	WASHINGTON STATE UNIV-RICHLAND	11
SACRAMENTO	CALIFORNIA STATE UNIV-CHICO	57
	CALIFORNIA STATE UNIV-SACRAMENTO (C)	141
	CALIFORNIA UNIV OF DAVIS	176
	PACIFIC UNIV OF THE (C)	66
SAN DIEGO	CALIFORNIA UNIV OF-SAN DIEGO (C)	165
	NATIONAL UNIVERSITY	6
	SAN DIEGO STATE UNIV	136
	SAN DIEGO UNIV OF-ALCALA PARK	65
SAN FERNANDO VALLEY	CALIFORNIA STATE UNIV-NORTHBRIDGE	111
	*LOS ANGELES PIERCE COLLEGE	16
SAN FRANCISCO	*COGSWELL COLLEGE	16
	SAN FRANCISCO STATE UNIV	79
SANTA BARBARA	CALIFORNIA POLY STATE UNIV-SAN LUIS (P)	125
	CALIFORNIA UNIV OF-SANTA BARBARA (C)	152
SANTA CLARA VALLEY	CALIFORNIA UNIV OF-SANTA CRUZ	42
	*FOOTHILL COLLEGE	4
	SAN JOSE STATE UNIV	112
	SANTA CLARA UNIV OF (C)	94
	STANFORD UNIV (C)	319
	U S NAVAL POSTGRADUATE SCHOOL	33
SANTA MONICA BAY	CALIFORNIA UNIV OF-LOS ANGELES	215
	LOYOLA MARYMOUNT UNIV	13

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 6 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SEATTLE	SEATTLE PACIFIC UNIV	17
	SEATTLE UNIV	78
	WASHINGTON UNIV OF(C)	183
	WESTERN WASHINGTON UNIV	12
SOUTH BAY HARBOR	CALIFORNIA STATE UNIV-LONG BEACH (C)	176
SPOKANE	GONZAGA UNIV	41
	WASHINGTON STATE UNIV-PULLMAN (C)	162
TUCSON	ARIZONA UNIV OF	190
UTAH	BRIGHAM YOUNG UNIV	88
	BRIGHAM YOUNG UNIV-BRANCH B	10
	UTAH STATE UNIV	36
	UTAH UNIV OF (C)	102
	WEBER STATE COLLEGE	29
WENATCHEE	CENTRAL WASHINGTON UNIV	12

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 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

## SECTION B

## REGION 7

SECTION	SCHOOL	MEMBERSHIP
CANADIAN ATLANTIC	NOVA SCOTIA TECHNICAL UNIV OF	59
HAMILTON	MCMASTER UNIV (C)	113
	*MOHAWK COLLEGE OF APPLIED A AND T	63
	*NIAGARA COLLEGE (C)	104
KINGSTON	QUEEN'S UNIV (C)	179
	ROYAL MILITARY COLLEGE OF CANADA	3
	*SAINT LAWRENCE COLLEGE OF APPLIED A AND T	20
KITCHENER-WATERLOO	*CONESTOGA COLLEGE OF APPLIED A AND T	48
	WATERLOO UNIV OF--STREAM A (C COM CS IT)	131
	WATERLOO UNIV OF--STREAM B	107
LONDON	*FANSHAW COLLEGE	22
	*SAULT COLLEGE OF APPLIED A AND T	1
	WESTERN ONTARIO UNIV OF	69
MONTREAL	CONCORDIA UNIV (C)	212
	ECOLE DE TECHNOLOGIE SUPERIEURE	4
	ECOLE POLYTECHNIQUE-UNIV OF MONTREAL (C)	102
	MCGILL UNIV (C)	158
NEW BRUNSWICK	NEW BRUNSWICK UNIV OF	129
NEWFOUNDLAND-LABRADOR	NEWFOUNDLAND MEMORIAL UNIV OF	55
NORTHERN CANADA	ALBERTA UNIV OF (C)	119
	*WESTERRA INSTITUTE OF TECH	12
OTTAWA	*ALGONQUIN COLLEGE OF APPLIED A AND T	63
	CARLETON UNIV (C)	173
	OTTAWA UNIV OF	111
QUEBEC	COLLEGE MILITAIRE ROYAL--ST JEAN	1
	LAVAL UNIV	174
	SHERBROOKE UNIVERSITE DE	99
SAINT MAURICE	QUEBEC UNIV OF--TROIS RIVIERES	34
SOUTH SASKATCHEWAN	REGINA UNIV OF	60
	*SASKATCHEWAN TECHNICAL INST	11
	SASKATCHEWAN UNIV OF	163
SOUTHERN ALBERTA	CALGARY UNIV OF	78
	*SOUTHERN ALBERTA INST OF TECHNOLOGY	27
TORONTO	CENTENNIAL COLLEGE OF APPLIED A AND T	14
	*DEVRY INST OF TECHNOLOGY--TORONTO	26
	*GEORGE BROWN COLLEGE OF APPLIED A & T	13
	*NORTHERN COLLEGE OF APPLIED A AND T	12
	*RADIO COLLEGE OF CANADA	57
	*RYERSON POLYTECHNIC INST	122
	*SENECA COLLEGE OF APPLIED A AND T	20
	TORONTO UNIV OF	284
	VANCOUVER	*BRITISH COLUMBIA INST OF TECHNOLOGY
BRITISH COLUMBIA UNIV OF (C)		171
SIMON FRASER UNIV		30
VICTORIA	VICTORIA UNIV OF	104
WINNIPEG	LAKEHEAD UNIV	57
	MANITOBA UNIV OF (C)	136
	*RED RIVER COMMUNITY COLLEGE	10

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 PE-POWER ENGINEERING.

## SECTION B

## REGION 8

SECTION	SCHOOL	MEMBERSHIP
	ZIMBABWE UNIV OF	5
	KUWAIT UNIV	125
BENELUX	CATHOLIC U OF LOUVAIN	67
	DELFT UNIV OF TECHNOLOGY	107
	EINDHOVEN UNIV OF TECHNOLOGY (C,COM)	110
	GHENT UNIV OF	47
	KATHOLIEKE UNIV TE LEUVEN	154
	LIEGE UNIV AV SART TILMAN	55
	TWENTE UNIV OF	63
CENTRAL & SOUTH ITALY	FLORENCE UNIV OF	7
	ROME UNIV OF	56
DENMARK	DENMARK SECTION STUDENT BRANCH	31
EGYPT	CAIRO UNIV OF	10
	MENOUFIA UNIVERSITY	6
FINLAND	HELSINKI UNIV OF TECHNOLOGY	57
	OULU UNIV OF	41
	TAMPERE UNIV OF TECHNOLOGY	35
FRANCE	ECOLE NATIONAL SUPERIORE TELECOM	3
	NATIONAL POLYTECHNIC DE GRENOBLE ENSIEG	4
GERMANY (WEST)	FACHHOCHSCHULE FUR TECHNIK ESSLINGEN	61
	FACHHOSCHSCHULE FURTWANGEN	15
	KAISERSLAUTERN UNIV	47
	KARLSRUHE UNIV OF	35
	MUNICH TECHNICAL UNIV OF	58
	PASSAU UNIVERSITAT	28
	RUHR UNIVERSITAT BOCHUM	30
	STUTTGART UNIV OF	28
GREECE	ARISTOTELIAN UNIV OF THESSALONIKA	42
	ATHENS NATIONAL TECHNICAL UNIV	86
ISRAEL	BEN GURION UNIV OF THE NEGEV	52
	ISRAEL INST OF TECHNOLOGY	43
	TEL-AVIV UNIV	54
NORTH ITALY	BOLOGNA UNIV OF	26
	ESCUELA TEC SUP DE ING DE TELE-VIGO	18
	GENOVA UNIV OF	25
	PADOVA UNIV OF	12
	PAVIA UNIVERSITA DEGLI STUDI DI	16
	POLITECNICO DI MILANO	61
	POLITECNICO DI TORINO	30
	TRIESTE UNIV OF	33
POLAND	WARSAW UNIV OF TECHNOLOGY	14
PORTUGAL	*PORTUGAL SECTION STUDENT BRANCH	4
	UNIVERSIDADE DE AVEIRO	78
SPAIN	ESCUELA TEC SUP TELECOM-MADRID (C,EMB)	133
	ESCUELA TECH SUP ING TELECOMUNICACION	141
SWEDEN	CHALMERS UNIV OF TECHNOLOGY	25
	LINKOPING UNIV	25
	LUND INST OF TECHNOLOGY	12
	ROYAL INST OF TECH	14
	UPPSALA UNIV OF	16
SWITZERLAND	ECOLE POLYTECHNIQUE FEDERALE LAUSANNE	44
	SWISS FEDERAL INST OF TECHNOLOGY-ETH	191
UKRI	UKRI SECTION STUDENT BRANCH	112
YUGOSLAV	LJUBLJANA UNIV OF	44

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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 PE-POWER ENGINEERING.

SECTION BREGION 9

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARGENTINA	BUENOS AIRES INST TECNOLOGICAL DE	24
	BUENOS AIRES UNIV DE (C)	104
	DEL SUR UNIV DE	13
	NACIONAL TECNOLOGICA UNIV	16
	TUCUMAN NACIONAL UNIV DE	24
BAHIA	BAHIA FEDERAL UNIV DA	14
BRASILIA	BRASILIA UNIVERSIDADE DE	27
CHILE	ANTOFAGASTA UNIVERSIDAD DE	19
	CHILE CATOLICA UNIV DE	10
	CHILE UNIV DE	61
	CHILE UNIVERSIDAD AUSTRAL DE	34
	CONCEPCION UNIV DE (C)	55
	MAGALLANES UNIVERSIDAD DE	14
	SANTA MARIA UNIV TEC FEDERICO (C)	127
	SANTIAGO UNIV DE	65
TARAPACA UNIV DE	18	
VALPARAISO UNIV CATOLICA DE	22	
COLOMBIA	CAUCA UNIVERSIDAD DEL	14
	COLOMBIA UNIV AUTONOMA DE	9
	COLOMBIA UNIV NACIONAL DE	122
	COLOMBIA UNIV PILOTO DE	52
	DISTRITAL UNIV FRANCISCO JOSE CALDAS (C)	79
	ESCUELA COLOMBIANA DE INGENIERIA	0
	LOS ANDES UNIV DE (C,P)	42
	PONTIFICIA UNIV JAVERIANA	35
SANTO TOMAS DE AQUINO UNIV	15	
COSTA RICA	COSTA RICA UNIV DE	17
ECUADOR	ESCUELA POLITECNICA NACIONAL-ECUADOR	30
EL SALVADOR	EL SALVADOR UNIV EVANGELICA DE	0
	EL SALVADOR UNIV POLITECNICA DE	6
	EL SALVADOR UNIVERSIDAD DE	0
	UNIV CENTROAMERICANA JOSE SIMEON CANAS	26
GUATEMALA	GUATEMALA UNIV DEL VALLE DE	0
	SAN CARLOS UNIV DE GUATEMALA (C)	124
MEXICO	CENTRO NAC DE INVESTIGACION DESAROLLO TEC	28
	ESCUELA SUPERIORE ING MECANICA Y ELECTRICA	5
	IBEROAMERICANA UNIVERSIDAD	26
	INST TECNOLOGICO REGIONAL CIUDAD JUAREZ	1
	LA SALLE UNIV DE (C)	207
	LAS AMERICAS UNIV DE-PUEBLA	29
	MADERO INST TECNOLOGICO DE CIUDAD	54
	MEXICO NACIONAL AUTONOMA UNIV DE	11
MORELIA INSTITUTO TECNOLOGICO DE	33	
MONTERREY	INST TEC DE ESTUDIOS SUP MONTERREY (C)	265
	NUEVO LEON UNIV AUTONOMOUS DE	12
PANAMA	PANAMA UNIV TECNOLOGICA OF	146
PERU	LIMA UNIV NACIONAL DE ING	53
	SAN MARCOS UNIV NACIONAL MAYOR DE	1
PUERTO RICO & CARIBBEAN	PUERTO RICO UNIV OF	268
	PUERTO RICO UNIVERSIDAD POLITECNICA DE	11
RIO DE JANEIRO	FEDERAL FLUMINENSE UNIV-ESCOLA ENG	8

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.





## SECTION B

## REGION 10

SECTION	SCHOOL	MEMBERSHIP
	MORATUWA UNIV OF-SRI LANKA	1
BANGALORE	BANGALORE INST OF TECH	23
	*GOGTE INST OF TECHNOLOGY	46
	INDIAN INST OF SCIENCE-BANGALORE(C)	75
	KARNATAKA REGIONAL ENGRG COLLEGE	34
	MANIPAL INST OF TECH	76
	UNIV VISVESVARAYA COLLEGE OF ENGRG	18
BEIJING	NANJING INST OF TECHNOLOGY	24
	TSINGHUA UNIV-QING HUA	11
BOMBAY	BIRLA INST OF TECH AND SCIENCE	52
	INDIAN INST OF TECHNOLOGY-BOMBAY (C)	34
	M S UNIV OF BARODA	39
	PUNE INSTITUTE OF COMPUTER TECH	49
	RAMRAO ADIK INST OF TECH	14
	VES INSTITUTE OF TECH	41
	VICTORIA JUBILEE TECHNICAL INST	68
	VISWESARAYYA REGIONAL ENGRG COLLEGE	84
CALCUTTA	BIRLA INST OF TECH-MESRA	12
	JADAVPUR UNIV	10
DELHI	BANARUS HINDU UNIV (C)	66
	DELHI COLLEGE OF ENG (P)	32
	INDIAN INST OF TECH-DELHI	26
	INDIAN INST OF TECHNOLOGY-KANPUR	15
	KURUKSHETRA REGIONAL ENG COLLEGE	3
	MADAN MOHAN MALAVIYA ENGRG COLLEGE/U GORAK	21
	ROORKEE UNIV OF	87
HONG KONG	CHINESE UNIV OF HONG KONG	43
	HONG KONG POLYTECHNIC (C)	31
	HONG KONG UNIV OF	169
HYDERABAD	ANDHRA UNIV	51
	GANDHI INST OF TECH AND MGMT	18
	KSRM COLLEGE OF ENGRG-CUDDAPAH	40
	OSMANIA UNIV	19
	REGIONAL ENGRG COLLEGE-WARANGAL	46
	SRI VENKATESWARA UNIV	50
KARACHI	NED UNIV OF ENG AND TECH	5
KERALA	CALICUT REGIONAL ENGRG COLLEGE (C)	64
	COCHIN UNIV OF (C)	24
	MAR ATHANASIOUS COLLEGE OF ENGRG	44
	N S S COLLEGE OF ENG	38
	T K M COLLEGE OF ENG	94
	TRICHUR GOVT ENG COLLEGE-U CALICUT	40
	TRIVANDRUM COLLEGE OF ENGRG (C) U KERALA	16
KHARAGPUR	INDIAN INST OF TECH-KHARAGPUR	22
KOREA	HANYANG UNIV (CAS, C, COM, ED)	109
	INHA UNIV	21
	KOREA ADVANCED INST OF SCIENCE	197
	KOREA UNIV	8
	SEOUL NATIONAL UNIV (COM)	197
	YONSEI UNIV (C,COM)	91
MADRAS	ADHIPARASAKTHI ENGRG COLLEGE	23

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 10 (cond't)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
MADRAS (cont'd)	ALAGAPPA CHETTIAR COLLEGE OF ENG AND TECH	59
	ANNA UNIV-COLLEGE OF ENG-MADRAS (C)	61
	ANNAMALAI UNIV	75
	ARULMIGU KALASALINGAM COLLEGE OF ENG	58
	COIMBATORE INST OF TECHNOLOGY	72
	GOVERNMENT COLLEGE OF ENG-SALEM	10
	HINDUSTAN COLLEGE OF ENGRG	7
	INDIAN INST OF TECHNOLOGY-MADRAS (C)	15
	KARUNYA INST OF TECHNOLOGY	48
	KONGU ENGRG COLLEGE	38
	MADRAS INST OF TECHNOLOGY (C,IM)	28
	MARUTHI COLLEGE OF ENG	0
	MEPCO SCHLENK ENGRG COLLEGE	60
	MOHAMED SATHAK ENGRG COLLEGE	0
	MOOKAMBIGAI COLLEGE OF ENGRG	13
	PONDICHERRY ENG COLLEGE	1
	PSG COLLEGE OF TECHNOLOGY (C)	154
	PSNA COLLEGE OF ENG AND TECH	73
	REG ENG COLLEGE-TIRUCH (C,COM,P,EM,EMB)	162
	S K CRESCENT ENG COLLEGE	15
	SRI VENKATESWARA COLLEGE OF ENG-NAZARA	54
	THIAGARAJAR COLLEGE OF ENG-MADURAI	59
VINAYAKA MISSION'S KIRUPANANDA VAR. ENG COL	24	
VLB JANAKIAMMAL COLLEGE OF ENGINEERING	15	
NEW ZEALAND SOUTH	CANTERBURY UNIV OF	37
PAKISTAN	LAHORE UNIV OF ENG AND TECH	21
REPUBLIC OF PHILIPPINES	PHILIPPINES UNIV OF (C)	9
SINGAPORE	NANYANG TECHNOLOGICAL INSTITUTE	292
	SINGAPORE NATIONAL UNIV OF	161
THAILAND	CHULALONGKORN UNIVERSITY	22
	KING MONGKUT'S INST OF TECH	32
TOKYO	OSAKA UNIV	26
	SHIZUOKA UNIV	23
	TOKYO UNIV OF	66

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

( ) ALSO HAS STUDENT BRANCH CHAPTER OF THE INDICATED SOCIETY -  
 CAS-CIRCUITS AND SYSTEMS, COM-COMMUNICATIONS, C-COMPUTER,  
 CS-CONTROL SYSTEMS, ED-ELECTRON DEVICES, EMB-ENGINEERING IN  
 MEDICINE AND BIOLOGY, EM-ENGINEERING MANAGEMENT, IA-INDUSTRY  
 APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
 MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
 PE-POWER ENGINEERING.

TABLE 1 - SOCIETIES/COUNCILS BY DIVISION

Division I - Circuits and Devices	
CAS-04	Circuits and Systems
CHMT-21	Components, Hybrids and Manufacturing Technology
ED-15	Electron Devices
LEO-36	Lasers and Electro-Optics
SSC-37	Solid-State Circuits Council
Division II - Industrial Applications	
DEI-32	Dielectrics and Electrical Insulation
IA-34	Industry Applications
IM-09	Instrumentation and Measurement
PEL-35	Power Electronics
Division III - Communications Technology	
BT-02	Broadcast Technology
COMM-19	Communications
CE-08	Consumer Electronics
VT-06	Vehicular Technology
Division IV - Electromagnetics and Radiation	
AP-03	Antennas and Propagation
EMC-27	Electromagnetic Compatibility
MAG-33	Magnetics
MTT-17	Microwave Theory and Techniques
NPS-05	Nuclear and Plasma Sciences
Division V - Computer *	
COMP-16	Computer
Division VI - Engineering and Human Environment	
Ed-25	Education
EM-14	Engineering Management
PC-26	Professional Communication
R-07	Reliability
SIT-30	Social Implications of Technology
Division VII - Energy and Power Engineering	
PE-31	Power Engineering
Division VIII - Computer *	
COMP-16	Computer
Division IX - Signals and Applications	
ASSP-01	Acoustics, Speech, and Signal Processing **
AES-10	Aerospace and Electronic Systems
GRS-29	Geoscience and Remote Sensing
OE-22	Oceanic Engineering
UFFC-20	Ultrasonics, Ferroelectrics and Frequency Control
Division X - Systems and Control	
CS-23	Control Systems
EMB-18	Engineering in Medicine and Biology
IE-13	Industrial Electronics
IT-12	Information Theory
RA-24	Robotics and Automation
SMC-28	Systems, Man, and Cybernetics

\* The Computer Society is represented by two Divisions

\*\*Name changed to Signal Processing (SP) Society effective 01/01/90

## SECTION C

TABLE 2 - SOCIETY MEMBERSHIP, BY DIVISION, BY SOCIETY, BY GRADE, DECEMBER 31, 1989; 3-YEAR COMPARISON, MEMBERS AND AFFILIATES.

SOCIETY CODE	VOTING				HIGHER			1989	1989	1989	1988	1987	
	HM	F	SM	M	MEMBERS SUBTOTAL	A	GRADE SUBTOTAL	S	TOTAL MEMBERS	TOTAL AFFIL.	MEMBERS & AFFIL.	MEMBERS & AFFIL.	
DIVISION I		843	2,254	21,549	24,646	2,022	26,668	5,234	31,902	117	32,019	30,592	28,986
CAS -04		333	799	9,918	11,050	920	11,970	2,809	14,779	2	14,781	14,541	13,837
CHMT-21		85	411	3,314	3,810	552	4,362	271	4,633	35	4,668	4,234	3,925
ED -15		409	965	7,741	9,115	649	9,764	1,310	11,074	4	11,078	10,573	10,245
LEO -36		225	543	4,430	5,198	449	5,647	1,679	7,326	76	7,402	7,049	6,397
DIVISION II		419	2,448	14,408	17,275	1,546	18,821	1,290	20,111	19	20,130	19,509	18,645
DEI -32		93	371	1,396	1,860	234	2,094	88	2,182	11	2,193	2,101	1,977
IA -34		206	1,630	8,016	9,852	674	10,526	428	10,954	2	10,956	10,674	10,555
IM -09		153	461	4,010	4,624	598	5,222	471	5,693	5	5,698	5,770	5,557
PEL -35		61	374	3,352	3,787	354	4,141	556	4,697	1	4,698	4,261	3,675
DIVISION III		635	2,562	26,015	29,212	3,115	32,327	4,560	36,887	279	37,166	35,675	34,545
BT -02		80	289	1,670	2,039	368	2,407	310	2,717	2	2,719	2,619	2,536
CE -08		96	366	4,077	4,539	666	5,205	741	5,946	5	5,951	5,885	5,921
COMM-19		524	2,029	21,280	23,833	2,312	26,145	3,679	29,824	271	30,095	28,797	27,752
VT -06		82	349	2,124	2,555	259	2,814	278	3,092	2	3,094	2,804	2,632
DIVISION IV		815	2,535	16,525	19,875	1,606	21,481	2,605	24,086	266	24,352	23,894	22,333
AP -03		315	958	5,656	6,929	477	7,406	1,238	8,644	3	8,647	8,337	7,958
EMC -27		111	416	2,700	3,227	364	3,591	261	3,852	4	3,856	3,535	3,211
MAG -33		136	461	2,488	3,085	363	3,448	271	3,719	90	3,809	3,821	3,653
MTT -17		378	1,112	7,994	9,484	645	10,129	1,468	11,597	10	11,607	11,761	10,709
NPS -05		137	379	2,119	2,635	211	2,846	269	3,115	160	3,275	3,273	3,214
DIVISIONS V & VIII COMP-16		702	3,222	56,862	60,786	7,547	68,333	13,226	81,559	25,115	106,674	100,579	90,223
DIVISION VI		419	1,957	13,617	15,993	1,769	17,762	1,448	19,210	274	19,484	18,647	17,612
E -25		191	567	1,841	2,599	260	2,859	299	3,158	9	3,167	2,961	2,643
EM -14		120	772	7,053	7,945	802	8,747	676	9,423	148	9,571	9,077	8,556
PC -26		24	268	1,795	2,087	391	2,478	183	2,661	95	2,756	2,732	2,607
R -07		79	432	3,223	3,734	449	4,183	192	4,375	11	4,386	4,252	4,061
SIT -30		103	292	1,811	2,206	253	2,459	306	2,765	11	2,776	2,744	2,695
DIVISION VII		618	4,101	16,823	21,542	1,295	22,837	1,233	24,070	5	24,075	23,906	23,311
PE -31		618	4,101	16,823	21,542	1,295	22,837	1,233	24,070	5	24,075	23,906	23,311
DIVISION IX		667	2,089	18,330	21,086	1,643	22,729	4,703	27,432	114	27,546	27,320	26,581
AES -10		274	936	6,779	7,989	582	8,571	1,455	10,026	9	10,035	10,364	10,171
ASSP-01 **		310	909	10,378	11,597	859	12,456	3,089	15,545	9	15,554	15,241	14,651
GRS -29		69	250	1,627	1,946	222	2,168	277	2,445	80	2,525	2,427	2,382
OE -22		87	238	1,427	1,752	204	1,956	269	2,225	12	2,237	2,235	2,263
UFFC-20		89	244	1,448	1,781	173	1,954	196	2,150	5	2,155	2,137	2,183
DIVISION X		649	2,151	21,170	23,970	2,270	26,240	5,989	32,229	307	32,536	31,382	26,856
CS -23		222	713	7,228	8,163	665	8,828	2,036	10,864	20	10,884	10,472	10,000
EMB -18		129	485	4,814	5,428	545	5,973	1,444	7,417	98	7,515	7,499	7,235
IE -13		112	554	4,670	5,336	614	5,950	705	6,655	2	6,657	5,621	5,351
IT -12		244	452	3,609	4,305	348	4,653	1,321	5,974	9	5,983	5,436	5,153
RA -24		97	370	4,248	4,715	513	5,228	1,397	6,625	143	6,768	6,624	4,480
SMC -28		120	378	3,043	3,541	374	3,915	862	4,777	42	4,819	4,792	4,480
TOTAL SOCIETY MEMBERS		3,104	14,514	133,643	151,261	14,741	166,002	25,579	191,581	26,211	217,792	207,319	192,729
TOTAL SOCIETY MEMBERSHIPS		7,014	27,096	230,964	265,074	26,191	291,265	45,293	336,558	26,506	363,064	349,134	321,719

\*\* NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90



## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 1	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION	MEMBERS	IATES	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
BERKSHIRE	150	10	3	0	4	1	0	0	1	1	1	10	0	2	4	2	35*	1	2	3	0	2	2	9*	2	4	3	5	2	0	1	36*	8	1	3	2	0
BINGHAMTON	739	42	20	6	15	31	4	3	11*	7	5	48*	3	15	28	14	263*	16	12	21	1	25	0	25	14	12	4	8	9	5	5	39*	2	6	18	22	22
BOSTON (CNEC)	12427	1221	748*	62	362*	515*	134*	64	224*	209	253*	430*	280*	161	346*	498*	3233*	579*	356*	1088*	88*	229*	98*	344	193	79*	80*	109*	171	84	135*	463*	58	122*	173*	154	305*
BUFFALO	930	65	36	4	18*	29	11	12	6	13	23	37	11	34	26*	18	224*	35*	24	37	6	16	1	31*	12	8	2	10	12	2	9	90*	19	15	57*	19	23
CONNECTICUT	3809	370	204*	38	58	123	34	19	39	75	67	116	45	84	125	77	981*	82	129	274	49	63	56	127	72	38	32	38	60*	26	33	263*	48	50	126	50	108
ITHACA	473	43	38	2	9	28	10	1	1	4	6	4	17	4	3	49	112	24*	10	25	5	3	2	18	9	3	1	1	8	7	5	13	2	2	8	2	37
LONG ISLAND (METSAC)	3266	217	119*	43	96*	103	68	39*	75*	81	52*	189*	46*	46	98*	64*	727*	251*	92*	258*	35*	56	23	53	44	28	40	56*	33	12	36	165*	30	35	67*	40	66*
MAINE (CNEC)	453	46	11*	12	15*	22*	5*	3	8*	2	7	8	3	6	13	20*	96*	17*	7*	28*	4*	7*	5*	15	3	7*	6*	2*	3	7	3*	63*	3	2*	32*	4	4*
MID-HUDSON	1254	151	22	6	12	64	6	6	31	18	11	8	7	16	33	120*	485*	21	17	51	3	55	5	16	17	13	14	16	7	3	14	68*	6	13	19	18	33
MOHAWK VALLEY	708	45	40	3	46	25	1	3	22*	7	8	48*	11	6	19*	22	141*	35	7	49*	1	8	7	19	16	10	2	19*	13	8	4	42	5	6	15	7	33*
NEW HAMPSHIRE (CNEC)	1741	216	86*	8	73*	69*	17*	8	36*	25	38*	61*	15*	26	52*	42*	498*	120*	30*	136*	5*	34*	16*	34	32	7*	8*	30*	20	10	8*	102*	4	26*	21*	15	29*
NEW JERSEY COAST	2906	171	109	20	56*	76*	10	36*	30	35	30	58*	60	19	72*	87*	762*	109*	28	845*	14	24	9	37	17	25	19	42*	22	10	15	51	9	15	23	12	120*
NEW YORK (METSAC)	6472	736	270	104*	74*	261	51	51*	45*	173*	89*	150*	159	82	164*	225	1832*	143*	219*	769*	38	73	37	117	125	71	75	31*	93	11	88	420*	33	51	150*	50	148
NORTH JERSEY (METSAC)	5290	445	269*	63	70*	234	40	66*	68*	121	92*	144*	101	92	133*	154	1319*	176*	129*	689*	24	88	28	110*	83	35	41	28	55*	12	48	315*	31	55	180*	67	130
PRINCETON (METSAC)	3057	289	142	33	42*	128*	36	31	19	70*	44	59	63	45	70	151*	774*	127*	88*	397*	18	52	13	71	46*	23	36	18	31	11	23	135*	21	27	64	35	114*
PROVIDENCE (CNEC)	1491	139	134*	11	20*	54*	7*	5	17*	22	22*	40*	34*	22	45*	37*	382*	28*	33*	104*	14*	43*	79*	39	34	11*	4*	10*	18	12	10*	118*	11	9*	27*	8	27*
ROCHESTER	1499	156	73*	5	17	45	11	16	12	40	21	20*	18	32*	39*	63*	499*	23	35*	109*	10	17	8	47*	17	18	14	10	9	5	12	97*	10	30*	50*	14	53
SCHENECTADY	1604	101	53	7	22	44	29	8	10	13	15	23	30	37	17	67*	296*	27*	28	74	13	16	7	58*	41	14	7	14	37*	5	13	344*	28	41	104*	36	26
SPRINGFIELD	644	41	20	10	47*	27	0	2	2	13	5	13	15	4	9	20*	174	59*	6	34	2	4	4	24	18	9	4	4	12	22*	5	34	3	4	10	6	19*
SYRACUSE	1092	56	87	5	61*	37*	6	1	19	23	9	57	14	9	29	40*	255*	85*	23	41	5	6	11	21	12	10	8	18	10	6	9	111*	4	1	39*	6	14
VERMONT	512	52	13	2	8	45	2	2	10	4	4	11	3	8	11	88	115	4	19	17	5	13	1	18	5	7	0	3	2	2	3	45*	5	5	11	6	15
WORCESTER COUNTY (CNEC)	1157	111	44*	3	18*	46*	4*	3	33*	9	16*	17*	12*	17	34*	41*	380*	31*	38*	99*	7*	26*	4*	26	21	10*	8*	13*	12	1	14*	81*	11	25*	14*	22	17*
TOTALS	51674	4723	2541	447	1143	2007	486	379	719	965	818	1551	947	767	1370	1899	13583	1993	1332	5148	347	860	416	1259	833	442	408	485	639	261	493	3095	351	541	1211	595	1343

\*=-CHAPTER OR JOINT CHAPTER ESTABLISHED

#=-NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 2	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO	
SECTION	MEMBERS	IATES	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
AKRON	582	38	11	3	12	12	4	7	7	6	9	15	6	23	16	4	118*	10	16	23	2	5	5	30	14	4	5	6	7	1	4	115*	10	4	60*	5	3	
ALLEGHENY MOUNTAIN	55	0	2	1	0	2	0	0	1	1	1	1	0	2	3	1	13	2	0	3	0	4	0	1	2	1	2	0	1	0	3	4	0	2	1	1	0	0
BALTIMORE	4288	386	258	39	169*	93	38*	25	82*	46	61	282	90	38	146	116	944*	225*	99*	442*	39*	44	49	97	57	25	37	72	38	32	23*	266*	20	22	167*	30	77	
CANTON	164	13	3	0	0	4	2	2	1	3	2	7	1	4	3	2	47	2	1	7	0	2	1	3	4	3	0	0	1	1	0	28*	2	1	21	4	2	
CENTRAL PENNSYLVANIA	676	41	65*	2	22	25	4	2	4	8	8	20	15	9	7	35	186	29	18	37	9	6	8	28	11	11	6	10	2	11	13	18	3	4	16	5	19	
CINCINNATI	787	102	39	8	22	25	7	8	7	9	14	14	7	20	25	25	207	26	13	49	4	8	1	41	14	6	7	7	7	0	4	64*	10	7	62*	9	11	
CLEVELAND	1693	115	54	13	22	53	20	20*	18*	18	47*	23	13	74*	58*	35*	382*	30*	100*	68	15	10	12	93	36	9	15	7	35	5	13	162*	17	19	137*	42	18*	
COLUMBUS	1744	177	58*	14	90*	44	8	14	9	21	24	54	19	47	47	15	451*	33*	38*	112*	7	10	7	84*	54	22	13	8	41	8	10	210*	13	16	79*	33	31	
DAYTON	1537	125	72*	2	68*	35	9	9	22	15	16	140*	16	28	98*	38	372*	60*	36*	74*	16	6	8	66*	32	18	13	27*	30	8	11	61*	8	14	41*	16	52	
DELAWARE BAY	585	59	35	2	4	17	2	5	5	12	15	5	15	15	11	15	111*	7	24	34	1	12	2	26	14	3	5	6	7	2	8	69*	9	2	63*	3	19	
EASTERN SHORE	93	15	2	1	0	3	1	1	2	3	4	1	0	1	2	2	19	3	0	4	0	1	1	0	0	2	2	6	0	2	1	19	4	0	4	1	1	
ERIE	185	11	4	1	5	5	0	8	0	0	1	2	1	9	8	2	17	2	5	6	2	6	2	6	5	8	4	6	2	1	2	19	4	7	30	5	0	
JOHNSTOWN	117	11	5	4	3	1	0	1	0	2	3	5	0	5	4	2	22	1	3	2	0	2	1	4	4	5	2	0	3	0	1	19	1	1	10	0	1	
LEHIGH VALLEY	1526	88	42	12	17	110*	14	5	22	30	31	21	11	39	33	159*	266	59	17	74	6	51	7	36	19	26	12	12	6	3	11	195*	19	13	72	29	47	
LIMA	81	3	1	1	1	1	0	0	2	2	3	3	0	2	6	4	20	0	1	3	0	2	0	3	0	1	1	1	0	1	2	9	1	0	8	1	1	
NORTH CENTRAL OHIO	52	2	0	0	0	3	0	2	0	0	0	0	1	3	0	12	1	0	8	0	1	0	0	2	1	2	1	2	0	1	10	0	0	4	0	0		
NORTHERN VIRGINIA (NCAC)	6549	870	377*	68	257*	115	56*	74*	86*	83	44	369*	173*	36	287*	78*	1858*	118*	48*	1262*	17*	23	91*	145*	62	24	38*	116*	133*	76*	74*	156*	5	25*	47	20	108*	
OHIO VALLEY	42	5	2	1	0	1	0	0	0	0	1	1	0	2	0	6	0	3	1	0	0																	

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 3	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION			1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
ALABAMA	1078	67	17	8	27	23	11	5	4	11	15	23	6	30	27	13	201*	22	28	125*	1	8	7	43	21	24	6	16	9	3	5	209*	13	4	81*	19	13
ATLANTA	4062	255	215*	60	171*	142	15	38	19	95	43	144*	61	58	119*	50	789*	183*	69*	443*	19	25	28	132	67	54	29	46*	47	29	34	470*	27	23	204*	41	73*
BATON ROUGE	278	22	10	0	1	6	1	0	7	5	10	2	5	8	4	8	50	4	2	10	0	2	6	10	4	4	3	1	3	5	1	42	2	1	49*	7	5
BROWARD (FC)	653	49	22	6	12	22	3	14	9	11	9	11	10	12	30	12	174*	15	9	80*	3	9	5	14	7	3	5	8	2	1	6	98*	0	6	15	9	1
CANAVERAL (FC)	234	29	6	1	10	10	0	2	3*	5	7	29	1	4	10*	6	62*	5	5	20	0	0	2	6	4	3	2	5	1	1	5	9	0	0	5	0	5
CENTRAL GEORGIA	272	21	11	0	6	8	3	1	2	4	3	17	0	5	7	3	58*	10	6	17	1	1	0	9	8	4	3	3	1	0	2	42	1	1	23	9	3
CENTRAL NORTH CAROLINA (NCC)	226	15	11	2	2	23	0	2	2	6	5	3	1	5	14	10	60	3	5	17	2	4	1	2	1	1	2	2	1	3	16	0	0	14	2	2	
CENTRAL SAVANNAH RIVER (SCC)	180	16	5	0	0	3	1	1	3	0	7	2	0	4	8	2	40	1	10	13	0	1	0	16	5	3	0	1	1	0	26	0	2	16	3	3	
CENTRAL VIRGINIA (VC)	669	53	33	6	24	21	12	20	9	9	11	13	21	10	15	157	27	19	62	5	10	3	19	10	7	7	6	25	2	12	34	3	4	16	2	10	
CHARLOTTE (NCC)	688	37	11	3	4	11	3	2	2	7	5	13	5	12	16	10	159*	7	6	38*	2	8	2	18	12	4	6	5	4	0	6	221*	4	9	48	9	16
CHATTANOOGA (TC)	253	21	3	2	0	2	2	1	1	0	5	3	1	6	9	1	37	1	2	9	0	0	0	8	2	2	2	0	1	0	126*	1	0	15	5	5	
COASTAL SOUTH CAROLINA (SCC)	297	13	9	5	6	5	4	1	1	4	5	10	2	11	13	0	52	8	6	15	1	3	4	11	6	3	3	3	0	1	60	2	4	19	5	12	
COLUMBIA (SCC)	397	20	7	6	8	11	5	1	6	5	4	6	1	10	17	4	125	5	5	23	0	3	0	6	13	4	1	4	5	2	3	50	7	4	35	8	3
DAYTONA (FC)	133	7	4	2	1	4	2	0	1*	3	1	3	4	1	4	0	42	1	2	10	2	0	1	2	2	1	3	3	3	20	0	0	4	0	1		
EAST TENNESSEE (TC)	656	39	21	5	7	17	27	3	4	19	24	13	8	21	13	12	141*	6	12	23	4	5	5	32	14	5	2	5	12	2	5	114*	4	4	35	17	15
EASTERN NORTH CAROLINA (NCC)	2649	248	100	22	29	111	23	12	37	43	31	27	25	50	64	116	748*	47	105	366	9	31	9	47	46	25	19	26	27	9	15	236*	13	15	73*	51	42
EVANSVILLE-OWENSBORO	235	10	3	2	3	15	2	1	5	1	5	4	0	17	12	3	40	9	1	7	0	8	0	16	5	2	1	1	2	1	30	2	5	20	6	4	
FLORIDA WEST COAST (FC)	1831	99	66*	17	42*	51	24	13	31*	35	27	58	17	33	62	29	403*	85*	47	126	7	22	13	38	24	16	15	17	14	7	14	319*	19	18	78	23	21
GAINESVILLE (FC)	495	36	19	5	6	29	5	4	4	7	7	9	4	6	8	33	139*	10	17	26	1	7	2	20	17	7	0	4	7	1	4	45	0	2	14	8	18
HAMPTON ROADS (VC)	750	113	27	5	23	14	22	2	11	8	17	31	8	9	31	17	196*	23	11	46	10	4	18	48	11	5	2	11	10	9	4	56	2	4	26	6	23
HUNTSVILLE	1504	163	67	4	65*	43	19	6	24	24	29	147*	19	20	73*	17	407*	65*	13	94	0	8	7	104*	30	11	10	17	23	18	7	47	2	9	18	10	47*
JACKSONVILLE (FC)	234	26	3	1	3	5	1	4	1	3	3	9	0	2	8	1	58	2	2	21	0	1	1	13	5	3	2	1	1	1	44*	4	3	20	5	2	
JAMAICA	243	2	3	7	8	8	0	2	1	14	3	1	2	11	35	0	28	7	2	22	0	1	0	5	1	5	6	0	1	2	4	40	0	0	12	12	0
LEXINGTON	341	28	12	5	5	10	4	2	3	8	3	6	1	16	12	8	77	4	6	24	1	6	0	11	12	2	1	9	7	0	5	33	6	7	18	15	2
LOUISVILLE	287	21	3	2	4	7	2	3	2	4	7	2	2	11	11	2	77*	6	13	21	1	2	1	14	9	5	0	1	5	0	2	33	0	5	16	5	9
MEMPHIS (TC)	467	44	15	3	25	10	3	2	7	11	8	10	9	14	13	0	25	12	25*	21	1	1	3	14	8	11	5	7	3	3	54*	3	2	31*	4	6	
MIAMI (FC)	859	64	47	8	10	29	4	4*	7	12	15	15	6	20	30*	4	217*	11	53*	55*	5	4	8	20	18	8	3	0	10	7	5	157*	4	6	43*	5	9
MIDDLE TENNESSEE (TC)	91	7	5	1	2	3	4	0	3	0	3	4	0	3	1	0	22	3	1	2	1	1	0	6	4	0	1	1	0	0	1	5*	0	1	9*	3	1
MISSISSIPPI	434	15	13	3	8	20	5	3	1	5	7	5	4	7	17	8	87	9	3	27	0	4	8	13	8	5	7	3	1	2	1	116	8	3	12	3	8
MOBILE	142	17	4	2	5	5	0	4	0	1	1	2	0	5	7	0	37	4	2	9	0	0	2	6	2	0	0	6	1	0	0	18	0	1	16	1	1
NASHVILLE (TC)	581	35	32	10	5	28	7	3	4	10	11	14	6	16	19	10	121*	2	40	41	0	5	1	27	19	13	2	3	9	0	5	58	5	2	40*	9	4
NEW ORLEANS	764	45	24	8	13	14	2	5	12	12	12	14	8	16	21	2	136*	8	23	63*	5	2	25*	25	11	3	5	3	5	14	7	184*	4	2	61	9	6
NORTHWEST FLORIDA (FC)	312	18	11	1	13	10	2	1	1	2	2	39	2	5	5	3	77	15	4	16	0	1	1	34	5	2	3	5	7	1	2	19	1	2	9	6	5
OAK RIDGE (TC)	169	23	2	0	2	1	31	0	2	2	6	4	0	5	2	3	46*	1	1	4	0	0	0	6	7	0	1	3	1	2	1	17	4	4	7	1	3
ORLANDO (FC)	1065	72	58*	4	34*	30	4	14*	20	11	12	68*	19	9	33	20*	265*	52*	9	90*	24*	20*	11	23	13	6	7	12	10	3	3	90*	6	5	21*	6	53*
PALM BEACH (FC)	833	53	27	6	13	21	6	7	10	20	12	26	5	7	27	7	248*	16	16	84	2	12	12	19	14	9	10	14	9	5	7	122*	5	7	11	5	12
PIEDMONT (SCC)	483	28	12	3	12	9	2	4	9	3	10	7	5	15	7	8	124	9	4	23	1	11	0	31	16	7	3	2	7	1	3	56	6	1	61	6	5
RICHMOND (VC)	549	78	17	1	12	8	2	4	5	4	7	24	8	11	22	1	116	11	15	32	0	4	1	23	11	4	5	13	7	5	4	123	12	0	26	6	5
SAVANNAH	60	6	0	0	2	4	1	0	2	0	1	2	3	2	0	1	5	1	2	3	0	0	0	3	0	0	0	0	0	0	20	0	0	4	2	2	
SO BREVARD INDIAN RIVER (FC)	1020	61	61	5	48*	49	26	8	17	13	7	56	23	4	30	57	242*	57*	9	132	4	19	4	16	15	7	11	11									

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 4	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO	
SECTION			1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
ARROWHEAD	177	5	3	2	3	3	2	1	0	1	4	1	2	4	5	4	52	2	3	7	0	0	1	6	1	2	1	1	0	0	2	40	1	1	14	6	2	
CALUMET	431	29	14	4	5	12	1	5	1	12	8	10	3	19	12	0	86*	3	9	20	0	4	2	22	12	7	3	1	5	1	4	80*	2	5	43*	11	5	
CEDAR RAPIDS	380	48	17	1	10	14	5	4	6	5	6	17	6	5	12	1	98*	18	14	33	3	4	2	15	6	1	1	9	5	5	1	23	1	3	14	6	9	
CENTRAL ILLINOIS	1167	85	48	10	55	71	14	3	7	17	8	7	31	12	13	48	314	57	36	54	22	7	4	60	16	18	0	10	16	10	10	96*	1	12	26	8	46	
CENTRAL INDIANA	2245	147	130	22	26	76	20	24	15	69	38	55	41	35	46	68	513	34	52	145	11	27	10	98	65	45	6	16	42	23	13	309*	8	29	57	33	44	
CENTRAL IOWA	463	43	19	4	9	25	3	2	7	5	4	13	6	8	10	4	123	13	12	27	6	3	1	28	7	13	5	2	4	1	4	65	0	5	15	4	6	
CHICAGO	6667	702	262*	66	105*	222	64	126	82*	229*	98	86	74	171*	234*	79*	1745*	141*	191*	710*	52	108*	17	161	131	38	51*	84*	55	17	74	554*	51	46	309*	107	127*	
FORT WAYNE	445	34	14	2	9	18	5	7	10	11	9	18	13	12	12	4	94	13	4	46	2	5	2	7	10	7	6	5	6	0	7	33	10	4	16	13	11	
ILLINOIS VALLEY	179	19	5	3	2	5	2	3	1	3	3	2	2	7	7	0	57*	3	4	10	0	0	1	15	7	2	1	1	0	2	1	13	1	0	11	2	3	
IOWA-ILLINOIS	234	18	4	0	3	7	1	3	1	3	4	4	1	8	4	3	48	3	6	5	1	2	0	12	6	1	4	3	3	0	3	58	1	3	22	5	2	
MADISON	857	80	54	3	14	34	19	2	9	10	9	12	11	19	17	23	191	21	49	33	6	4	2	42	14	13	9	4	11	4	5	125*	1	11	34	29	13	
MICHIANA	476	24	33	5	2	30	5	2	5	17	10	14	18	15	20	12	100	3	10	29	4	5	0	38	18	8	2	5	2	0	5	25	3	4	11	10	6	
MILWAUKEE	2070	92	67*	17	21*	57	9	11	20	51	31*	31	16	93*	69	13*	435*	38*	134*	77*	17	33	7	76*	41	14	18	15	11*	1	16	252*	28	45*	215*	61	30	
MISSOURI SLOPE	62	2	0	0	1	0	0	0	0	0	1	1	0	3	3	0	5	1	1	3	0	0	0	0	0	0	3	0	0	0	0	0	36*	0	0	2	2	0
NEBRASKA	745	70	24	6	14	16	7	9	6	16	7	25	13	15	46*	5	136*	13	22	55	4	6	3	16	12	4	7	4	3	10	3	192*	3	1	26	6	10	
NORTHEAST MICHIGAN	328	25	12	0	4	12	0	9	6	4	6	7	2	13	10	8	78	7	10	14	1	9	1	12	9	4	4	4	3	0	1	33	10	2	20	4	9	
NORTHEASTERN WISCONSIN	654	38	16	8	21	13	3	3	6	13	5	22	6	26	18	3	118	12	10	34	1	3	0	40	16	13	9	1	7	2	4	117*	8	5	66	15	10	
RED RIVER VALLEY	260	17	7	5	9	10	2	2	1	3	1	4	3	8	4	4	57	5	24	12	0	1	0	9	6	8	1	4	2	1	1	39	4	2	13	4	4	
ROCK RIVER VALLEY	330	20	9	2	1	13	4	0	7	4	9	16	1	19	15	7	69	3	2	16	7	11	1	26	11	3	4	5	0	1	1	17	1	10	22	12	1	
STOUXLAND	148	13	3	2	2	5	0	1	0	3	2	4	2	3	4	1	30	2	3	11	0	3	1	1	2	3	2	2	1	0	2	43*	1	2	2	5	0	
SOUTHEASTERN MICHIGAN	4329	374	208*	22	106*	187*	35	125*	31	64	61	118*	84*	107	99	124*	1141*	100*	109	210*	18	48	18	274*	135	44	30	53	96	53*	36	266*	13	30	142*	38	103	
SOUTHERN MINNESOTA	381	61	8	4	7	21	3	5	4	5	3	2	4	10	18	9	148*	8	23	17	2	2	1	9	5	7	5	4	2	1	4	20	0	6	6	6	2	
TOLDO	378	18	10	3	6	9	4	5	1	5	5	7	6	19*	9	4	90*	4	12	10	0	2	6	23*	11	4	2	0	7	0	1	50*	8	2	37*	13	3	
TWIN CITIES	3671	385	117*	19	44	181*	31	15	68	46	66	69	45	64	129	173*	1029*	77*	189*	172*	18	61	9	133	73	23	46	49*	58	13	40	297*	16	101*	100*	38	62	
WEST MICHIGAN	507	56	14	5	10	10	3	7	10	8	8	24	3	18	17	8	134	5	13	31	2	6	1	29	22	6	3	9	5	2	1	41	4	10	25	7	6	
TOTALS	27584	2405	1098	215	489	1051	242	374	304	604	406	569	393	713	833	605	6891	586	942	1781	177	354	90	1152	636	288	223	291	344	147	239	2824	176	339	1248	445	514	

\*=-CHAPTER OR JOINT CHAPTER ESTABLISHED

#=-NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 5	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION			1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
ARKANSAS	314	11	9	1	2	4	3	1	0	3	7	4	2	9*	7	2	53*	3	14	17	2	1	1	7	3	5	3	1	1	2	3	100*	2	1	34	4	3
BEAUMONT	119	7	4	0	3	3	0	1	1	2	7	4	0	2	4	0	22	1	0	5	0	0	1	8	2	3	1	1	1	1	1	20	0	1	16	1	3
CENTRAL TEXAS	3261	323	125*	11	64	218	31	13	58	28	45	74	47	36	76	245	1167*	69	56	167*	17	76	15	66	67	25	28	55*	39	23	24	145*	10	26	37	20	58*
CORPUS CHRISTI	244	8	7	0	2	8	1	3	0	3	3	7	0	5	3	3	54*	4	3	8	0	4	2	9	5	1	0	3	2	4	1	74*	1	2	14	6	2
DALLAS	4973	363	254*	25	163*	262*	39	54*	76*	78	39	211*	57	39	167	284*	1180*	359*	56*	550*	26*	72	15	85	57	24	41	40*	39	29	25	327*	13	22	115*	56	94*
DENVER	4090	494	159	37	174*	141	31	32*	52*	61	103*	124*	54*	58	124	90	1051*	131*	93*	347*	19	31	20	106	70	37	35	80*	30	75*	34	331*	8	71	138*	48	95
EL PASO	456	35	12	7	26	19	3	3	5	14	8	23	7	9	11	6	99	20	10	33	0	6	1	14	10	12	3	9	7	10	2	24	2	1	12	5	23
FORT WORTH	1724	167	69	13	74	57*	12	23	23	33	30	103*	15	32	55	32	420*	68	24*	104	6	9	8	64*	42	16	11	20*	15	17	13	203*	6	8	37	22	40
GALVESTON BAY	582	118	11	0	13	16	2	2	6	3	8	39	4	5	17	5	201*	10	21	54*	1	3	7*	35	26	3	4	3	14	1	4	25	1	4	20	4	10
HOUSTON	3293	258	162*	16	65*	136*	32	18	34	44	70	50	51	63	75	68*	810*	63*	96*	244*	24	30	29*	103	56	19	33	21	26	64	25	369*	15	27*	265*	42	48
KANSAS CITY	1328	122	41	10	24	27	7	17	8	17	25	36	9	27	55	15	302	33	36	154*	5	8	5	23	17	17	17	10	12	10	12	259*	11	7	46	13	13
LAFAYETTE	175	9	9	0	2	8	1	1	0	0	2	5	6	2	5	1	79	2	2	18	0	1	0	2	2	1	1	0	3	0	0	15	0	0	5	0	2
OKLAHOMA CITY	548	45	31	7	16	21	5	6	7	6	7	23	4	13	16	6	133*	6	17	34	3	7	1	11	8	2	4	7	3	9	5	74*	6	8	22*	8	12
OZARK	175	10	3	2	6	8	2	1	2	3	2	8	2	7	9	5	32	3	4	6	1	2	2	6	1	4	2	1	5	3	1	24	2	1	9	5	1
PANHANDLE	72	6	1	1	1	2	0	0	0	3	2	0	0	0	0	0	7	0	1	1	0	0	1	1	0	2	0	0	0	0	37	0	0	11	0	1	
PERMIAN BASIN	54	5	1	2	1	2	0	1	3	1	1	0	0	3	1	4	11	0	0	1	1	0	0	0	0	0											



## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 6	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION			1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
ALAMOGORDO-HOLLOMAN	57	2	0	0	8	1	0	1	2	0	3	9	1	0	2	0	15	4	1	0	0	0	1	4	3	0	0	1	0	0	0	0	0	0	0	0	0
ALASKA	325	21	13	5	13	7	2	2	1	6	8	4	3	9	7	1	52	6	7	34	2	0	3	9	7	4	4	2	3	7	9	63	2	0	20	9	1
ALBUQUERQUE	1409	104	80	6	63*	51	111	3	30*	11	35	43	12	15	35	86*	259*	43*	19	52	16	41	5	49	28	15	10	55*	13	27	19	65*	6	12	14	12	68
BOISE	260	14	5	2	1	20	1	0	4	6	5	0	2	5	11	25	58	5	1	6	0	10	2	8	3	1	0	3	0	1	0	43	0	8	17	2	5
BUENAVENTURA (LAC)	1293	120	51*	10	73*	50*	6*	7*	25*	24	25*	80*	16*	13*	37*	79*	274*	134*	19*	77*	10*	19*	6	33*	22	5*	9*	30*	11	6*	6*	25*	4	32*	17*	15	43*
CHINA LAKE (LAC)	276	39	9*	2	18*	9*	1*	3*	7*	5	4*	29*	0*	3*	7*	5*	70*	22*	2*	14*	1*	2*	0	12*	2	2*	2*	6*	3	3*	2*	12*	1	1*	12*	2	3*
EASTERN MONTANA	45	1	0	0	0	0	0	1	0	2	1	1	0	0	1	0	7	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	20	0	6	2	0
FOOTHILL (LAC)	1386	126	44*	17	44*	49*	16*	15*	23*	24	28*	69*	15*	15*	58*	38*	318*	68*	25*	94*	12*	12*	13	34*	23	17*	8*	25*	12	15*	6*	103*	7	21*	62*	16	40*
FORT HUACHUCA	141	17	2	0	9	2	1	1	1	2	2	5	0	0	3	1	40	6	1	39	0	0	0	2	2	1	3	5	1	1	1	7	0	0	1	2	0
HAWAII	535	62	17	3	11	13	3	0	1	6	4	11	19	6	14	7	162	12	14	78	1	3	11	17	7	3	3	4	3	5	3	50	3	2	24	4	11
IDAHO	173	21	6	0	1	15	9	1	6	2	5	3	1	4	7	10	39	7	2	3	2	5	0	2	1	3	1	2	2	1	1	17	1	1	6	2	5
LAS VEGAS	233	26	9	4	10	5	7	1	1	4	11	15	4	1	4	3	49	15	2	11	0	0	2	8	2	4	1	5	1	4	1	33*	1	2	3	1	9
LOS ALAMOS	315	46	13	2	12	7	44	4	2	4	12	6	2	0	7	9	59	18	6	14	4	2	0	9	2	3	6	5	3	2	5	9	3	5	4	4	28*
METROPOLITAN LOS ANGELES (LAC)	1193	97	72*	12	25*	57*	14*	11*	18*	18	12*	34*	42*	17*	24*	32*	284*	26*	26*	105*	7*	7*	5	36*	20	10*	6*	13*	21	5*	13*	102*	7	15*	40*	14	43*
MONTANA	177	17	6	1	0	7	1	1	2	2	1	10	2	2	4	2	38	1	2	6	1	1	0	16	4	2	1	1	4	1	0	42	0	3	7	0	6
NORTHERN NEVADA	232	10	9	1	3	8	0	0	2	4	4	2	1	7	4	3	50	6	11	9	4	6	0	8	8	3	1	1	3	6	6	42	1	3	12	3	1
OAKLAND-EAST BAY (SFBAC)	4456	534	164	19	75*	289	103	36*	40	72	60	52	43	66	126	211	1183*	142	96*	377*	21	66*	29	109	87	21	37	52	54	27*	53	314*	25	57	199*	52	99*
ORANGE COUNTY (LAC)	4521	476	216*	21	131*	238*	59*	33*	64*	72	37*	251*	70*	64*	106*	164*	1255*	164*	86*	327*	33*	103*	21	132*	83	24*	21*	67*	53	19*	25*	208*	16	63*	144*	64	87*
PHOENIX	3218	189	95	15	63*	227*	19	23	73	43	36	121	20*	32	96	269*	752*	184*	38	272*	17	115*	6	84*	28	28	28	34*	24	14	16	250*	17	19	56*	38	66
PORTLAND	2787	284	87	19	26	183*	11	15	28	44	58*	36	18	42	75*	136*	761*	72*	55*	126*	7*	48*	25	52*	35	21	24	30	20	11	25	413*	10	12	178*	33	51*
RICHLAND	243	19	8	0	3	5	7	1	3	1	7	7	0	8	6	1	48*	4	5	12	3	1	3	9	5	3	4	0	1	2	2	56*	0	1	15	3	9
SACRAMENTO	1586	115	61	26	36	87	4	19*	14	36	13	45	25	28	43	43	402*	50	55	141*	3	9	10	43	50	19	7	12	18	11	12	172*	2	9	36	10	35
SAN DIEGO	4028	403	245*	37	124*	175	77	27	73	76	61*	149	101	44	123*	141	976*	145*	77	361*	16	70*	70*	117*	61	17	29	81*	49	26	29	183*	20	67*	46	53	82
SAN FERNANDO VALLEY (LAC)	2283	219	91*	28	112*	96*	18*	12*	47*	60	38*	169*	38*	26*	74*	39*	516*	159*	52*	131*	8*	35*	12	83*	37	16*	20*	39*	31	11*	14*	97*	6	40*	43*	27	58*
SAN FRANCISCO (SFBAC)	2132	317	80	30	35*	90	17	31*	10	39	30	46*	23*	28	65	78	525*	87*	59	186*	11	27*	12	41*	24	8	19	22	19*	8	20	259*	3	19*	128*	23	30*
SAN GABRIEL VALLEY (LAC)	1489	131	74*	6	54*	59*	18*	12*	14*	23	27*	60*	43*	18*	33*	52*	321*	64*	23*	110*	9*	16*	11	55*	40	7*	11*	9*	32	43*	8*	88*	5	21*	36*	17	70*
SANTA BARBARA (LAC)	1001	70	73	8	40	42	13	5	15	15	17	46	23	6	14	59	186	64	17	70	4	15	12	34	18	12	7	13	11	17	12	34	2	19	9	9	60
SANTA CLARA VALLEY (SFBAC)	15533	1559	678*	80	300*	1131	111	67*	261*	302	186	305*	233*	136	454*	1339*	4577*	738*	208*	1269*	137*	411*	68	317*	240	59	91	152*	172*	96*	122	325*	35	368*	119	132	314*
SANTA MONICA BAY (LAC)	1993	195	110*	13	90*	90*	35*	7*	29*	26	20*	119*	65*	24*	43*	99*	485*	132*	51*	163*	11*	25*	12	72*	31	11*	7*	19*	26	24*	24*	24*	2	12*	13*	17	62*
SEATTLE	3992	476	159	28	126*	168*	30	37	56	62	70	196*	39	51	120	88	980*	105*	125*	252*	29	36	80*	116	70	29	37	82*	45	29	33	370*	11	21	169*	56	87
SOUTH BAY HARBOR (LAC)	3121	292	149*	16	158*	123*	46*	12*	48*	48	35*	213*	55*	32*	84*	161*	686*	279*	37*	305*	6*	43*	13	105*	42	14*	20*	41*	32	24*	16*	55*	8	31*	64*	44	76*
SPOKANE	384	28	15	1	8*	19*	2	6	3	5	9	8	8	5	8*	6*	100*	12	6	15	4	2	2	21*	10	6	2	4	6	2	3	61*	1	4	11*	3	6
TUCSON	897	74	44	3	27*	45	12	3	20	11	14	24	20	7	27	33	204*	39*	35	47*	3	26	5	25	15	10	5	20*	18	13	10	55*	4	20	8	9	36
UTAH	1142	122	62	15	30	45	3	6	11	25	21	32	27	12	41	36	310	42	50	81	5	12	3	33	30	9	10	14	11	8	7	77	1	10	32	6	25
VANDENBERG	116	9	3	1	7	4	1	0	0	1	7	9	0	2	1	1	25	10	0	10	1	0	0	3	2	2	0	2	1	1	1	11	1	4	2	1	2
WENATCHEE	43	5	2	1	0	0	0	0	0	0	1	0	1	1	1	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
T O T A L S	63015	6240	2752	432	1736	3417	802	403	934	1081	907	2209	972	729	1765	3257	16071	2866	1213	4799	88	1168	442	1699	1042	391	434	851	703	470	507	3708	205	902	1557	685	1518

\*=-CHAPTER OR JOINT CHAPTER ESTABLISHED

#=-NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 7	SECTION	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #		BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
				1	2																																		
CANADIAN ATLANTIC (ECC)		342	20	27	2	7	9	0	4	1	3	2	9	2	9	12	3	74*	7	13	24	2	2	25*	11	4	2	5	3	6	5	4	32*	5	2	20*	2	4	
HAMILTON (CCC)		735	25	44	1	10	27*	7	4	4	19	8	20	13*	26	21	143*	21	14	48*	3	8	2	19*	15	12	7	6	4	4	6	68*	9*	5	71*	18	22		
KINGSTON (CCC)		334	10	22	1	5	14	2	9	2	2	5	10	18	9	7	2	83*	4	9	41	0	1	4	17	13	2	2	1	3	2	1	11	2*	5	11	5	9	
KITCHENER-WATERLOO (CCC)		599	28	30*	3	15*	36*	1	2	7	15	6	14	12*	14	16	20*	162*	24*	12	42*	2	0	3	18*	16	4	11	2	16	8	11	22	4*	7	23	14	7	
LONDON (CCC)		302	17*	12	5	7	7	1	1	3	10	4	5	4	13	6	1	66	5	17	18	2	4	2	11	7	2	6	4	4	3	4	28	5*	3	25	5	2	
MONTREAL (ECC)		3075	123	128	37	60*	100*	23	42*	35*	41	69*	68	61*	90*	79*	33	752*	90*	62*	289*	16	25	13	109	89	31	22	30	44	17	20	279*	48*	15	143*	68	47	
N SASKATCHEWAN (WCC)		231	7	8	0	3	7	4	4	3	4	7	10	5	6	4	2	60	4	7	17	1	0	1	10	6	4	2	2	6	3	2	16	2	2	7	6	6	
NEW BRUNSWICK (ECC)		219	11	2	1	7	5	2	3	1	8	1	1	3	14	2	47	3	5	38	0	0	0	8	1	6	8	5	2	0	6	22	0	0	10	6	1		
NEWFOUNDLAND-LABRADOR (ECC)		128	8	10	0	4	4	0	1	1	2	2	2	3	4	2	26	3	1	15	1	1	11	4	1	1	2	0	0	1	3	8	0	2	6	4	1		
NORTHERN CANADA (WCC)		801	43	18	4	13	28	5	8	6	8	21	13	5	23	20	8	200*	10	18	80	0	6	3	42	22	9	12	3	12	6	11	96*	2	1	63*	12	13	
OTTAWA (ECC)		2694	151	119*	19*	78*	120*	11	33	29*	38*	42*	117*	57	26	99*	64*	709*	109*	33	456*	10	26	21	40	47	23	35*	57*	36	24	36	56*	11*	14	31	15	53*	
PETERBOROUGH (CCC)		125	4	3	0	1	5	0	1	0	3	3	2	0	8	3	0	20	0	6	1	1	0	7	5	2	1	1	0	0	1	18	4	5	21	3	0		
QUEBEC (ECC)		334	20	22	3	7	11	1	6	1	2	11	10	7	13	4	0	80*	11	4	29	2	1	1	11	14	3	3	2	6	5	3	19	2	1	15	6	18	
S SASKATCHEWAN (WCC)		177	6	9	6	5	4	1	2	0	6	1	4	1	6	6	0	34*	4	2	19	0	0	0	7	3	2	7	0	1	2	2	24	1	0	11	3	4	
SAINT MAURICE (ECC)		85	0	3	1	0	0	0	1	2	2	8	1	0	10*	0	0	5	2	3	1	1	1	0	5	2	3	0	0	0	1	9	1	0	10	12	1		
SOUTHERN ALBERTA (WCC)		868	44	61	3	13	40	2	16	6	18	16	18	9	26	29	7	233*	15	25	62	0	12	5	26	16	7	10	1	9	19	5	73*	5	0	58*	13	10	
TORONTO (CCC)		4097	205	133	58	68	163*	22	72*	39	128*	68*	89*	48	112	147*	54*	1009*	54	73	433*	19	32*	16	132	100	32	46	35	45	23	58	363*	53*	36	189*	82	66*	
VANCOUVER (WCC)		1590	83	71	16	30*	46	10	37*	11	36	21	32*	25	41*	42	22	357*	26	43	157*	5	9	15	63*	44	12	15	12	17	25	14	169*	12*	4	115*	18	18	
VICTORIA (WCC)		339	22	33	0	3	24	3	6	0	3	4	7	7	8	10	2	81	5	6	33	0	0	27*	11	14	3	5	0	7	4	6	12	0	0	9	4	2	
WINNIPEG (WCC)		672	19	18	8	27*	24	6	16*	5	15	11	14	12	12	15*	7	165*	20*	20*	48*	0	3	0	19	15	6*	17*	11	2	3	9	82*	8	9	31	10	4	
TOTALS		17747	846	773	168	363	674	101	268	156	363	310	446	289	458	543	250	4306	417	367	1856	65	132	149	570	434	166	216	175	220	154	203	1407	174	111	869	306	288	

\* = CHAPTER OR JOINT CHAPTER ESTABLISHED

# = NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

REGION 8	SECTION	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #		BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
				1	2																																		
AUSTRIA		670	64	40	5	14	52	5	12	15	6	21	10	23	13	9	17	164	25	9	64	14	6	1	17	19	8	10	14	13	5	7	15	5	10	8	6	8	
BENELUX		3187	263	164	14	69*	207	34	22	52	73	69	56	108*	53	81	141	839	78*	76	323	22	45	13	137	57	32	27	38	78	22	20	68	15	38	42	30	44	
CENTRAL & SOUTH ITALY		1629	82	101	19	98*	87	15	11	28	23	40	54	60	42	21	40	240	98*	45	135	19	23	19	67	44	14	12	35	50	26	11	31	10	12	32	22	45	
DENMARK		928	50	62	8	45	53	5	16	14	19	27	16	20	19	12	20	181	63	21	75	10	18	11	37	16	5	11	19	18	6	7	20	7	4	11	17	35	
EAST AFRICA		202	4	5	1	7	8	0	0	2	8	10	3	2	11	11	3	40	5	1	23	0	2	0	8	1	3	1	1	0	2	1	19	4	2	9	6	3	
EGYPT		584	11	28	8	28*	36	3	4	8	13	9	13	11	20	10	19	85*	28*	10	63	3	8	4	33	13	10	6	5	7	5	4	41*	9	3	16	9	12	
FINLAND		865	51	69*	5	28*	59*	7	16	7	24	17	15	16	18	25	17	197*	46*	19	78	7	13	8	31	29	9	5	6	22	15	6	10	6	4	10	6	15	
FRANCE		2777	152	179*	21	86	154	45	17	62	41	70	87	80	52	47	101	462*	132*	46	212*	48	71	25	107	61	30	19	55*	72	39	18	103*	44	53	51	27	60	
GERMANY (WEST)		4350	638	269	32	123*	366*	29	44	53	47	96	85	132	64	71	187	1044*	252*	61	379	45	54	19	119	103	37	32	49	79	53	35	91	26	58	50	42	124	
GREECE		1354	45	79	17	42	56	0	10	16	13	25	33	45	41	40	10	293	28	33	148	3	5	9	75	49	18	6	8	34	15	9	81*	4	9	50	29	21	
HUNGARY		34	0	3	0	0	1	1	0	0	0	1	0	5	1	0	2	2	4	1	5	0	1	0	0	0	0	0	0	2	1	0	1	0	0	2	1	0	
IRAN		2406	6	106	31	78	196	9	13	14	87	72	96	61	133	22	54	346	87	73	139	33	22	17	123	58	38	19	29	46	16	8	108	28	23	58	101	62	
ISRAEL		1512	107	135	5	47*	59*	10	10	36	22	19	64*	83	44*	43	33*	281*	59*	24	142*	16	19	2	65*	32	15	13	20*	30	10	10	35*	9	20	26*	22	52	
JEDDAH		239	2	6	0	6	7	1	2	5	5	6	3	4	4	15	1	43	4	2	30	1	1	2	11	2	8	2	0	2	0	2	40	6	0	7	8	3	
NIGERIA		134	2	3	0	5	5	0	0	1	7	1	2	1	4	12	1	28	1	1	16	0	4	1	6	1	2	2	1	2	1	2	14	0	1	4	4	1	
NORTH ITALY		2194	126	108	12	40*	132*	20	31	44	32	70*	34	49	77*	49	71*	460	50*	45	170	11	49	14	87	82	18	10	42	50	15	6	84*	26	31	63	60*	52	
NORWAY		759	45	52	6	18	40	1	4	19	7	17	17	35	17	15	16	164	17	10	83	15	9	19	36	18	5	7	4	16	18	5	28	7	4	7	5	18	
POLAND		203	5	6	1	4	11	1	2	4	2	10	2	1	10	4	11	27	12	2	11	2	4	0	16	7	1	0	4	0	1	14	3	6	10	5	5		
PORTUGAL		584	26	39	3	12	22	4	5	2	9	17	9	9	22	20	8	138	19	9	64	4	6	5	26	24	12	2	5	10	5	6	21	3	3	17	14	10	

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

SECTION C																																					
REGION 9	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION	MEMBERS	IATES	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
ARGENTINA	944	25	41	11	16	56	3	4	4	20	30	10	20	52	13	18	238*	9	36	61*	3	12	6	49	35	12	4	5	19	6	7	51*	5	12	30	31	15
BAHIA (BC)	163	1	3	2	1	7	1	0	3	2	10	0	2	9	3	3	22	2	3	9	0	3	1	6	2	8	1	0	4	1	0	21*	5	3	17*	7	2
BRASILIA (BC)	159	2	18	0	7	7	1	1	3	0	6	4	4	2	0	3	26	5	5	8	1	0	1	3	4	5	0	2	5	2	1	24	0	1	4	3	
CHILE	602	9	7	4	7	14	3	4	1	5	11	15	8	19*	15	2	226*	6	17	56	0	0	4	36*	8	8	2	0	10	0	2	59*	1	0	35	13	4
COLOMBIA	800	13	7	7	10	15	0	6	4	15	15	23	9	38	18	11	179	7	35	76	0	2	5	49	38	15	6	4	13	2	3	89	5	3	42	36	13
COSTA RICA (CAPC)	90	2	1	2	5	3	1	0	0	0	0	2	0	2	5	0	14	2	2	7	0	0	3	4	0	0	2	1	1	0	16	5	0	9	1	1	
ECUADOR	138	1	1	0	5	5	2	0	0	2	6	3	0	12	1	4	22	3	3	7	0	0	0	5	2	2	0	0	2	0	0	18	0	1	21	8	3
EL SALVADOR (CAPC)	95	0	1	2	2	1	0	2	0	2	0	0	1	1	12*	0	11	1	2	12*	1	0	0	1	1	2	1	0	1	0	12	0	0	6	1	0	
GUATEMALA (CAPC)	95	0	2	1	1	1	0	1	0	0	1	0	1	1	5	0	21	0	1	30	0	0	0	0	0	1	1	0	0	0	12	0	0	5	3	0	
HONDURAS (CAPC)	38	1	0	1	0	1	0	0	0	0	0	0	0	2	3	0	5	0	1	3	0	0	0	0	0	1	1	0	0	0	20*	0	0	15*	1	1	
MEXICO (MC)	1188	32	41	5	15	50	6	9	12	26	41	24	15	49*	42*	5	256*	10	29	92*	0	10	1	58*	39	25*	13	7	25*	2	5	127*	25	8	65*	24	27
MONTERREY (MC)	397	3	9	1	8	12	0	5	0	13	16	3	2	16	14	2	81	2	4	31	0	4	2	11	22	5	5	0	5	1	3	67*	5	0	31	12	5
MORELOS (MC)	221	1	4	3	3	7	2	2	2	1	5	1	1	9	3	1	43	2	2	14	1	1	1	14	5	7	9	1	0	2	25*	1	1	20*	6	9	
PANAMA (CAPC)	279	3	12	8	16	15	1	7	1	4	3	6	4	9	11	2	52*	7	4	28*	0	1	0	8	9	3	1	1	5	1	0	28*	3	1	28	12	1
PERU	262	2	3	4	9	9	2	0	2	5	8	3	3	9	11	2	52*	7	4	28*	0	1	0	8	9	3	1	1	5	1	0	28*	3	1	28	12	1
PUERTO RICO & CARIBBEAN	596	19	7	18	15	12	1	2	2	16	12	9	9	13	48	5	122*	8	6	75*	1	3	6	14	9	16	8	1	3	3	6	102*	3	2	26	9	4
RIO DE JANEIRO (BC)	377	13	22	1	10*	32*	2	0	6	5	7	1	6	14	6	5*	53*	11*	3	19	2	3	6	14	11	2	2	2	4	3	2	67*	4	2	25*	15	10
SAO PAULO (BC)	763	31	24	8	19	46	1	4	15	14	17	10	11	23	28*	25	155*	32*	12*	44	3	15	4	31*	21	14	7	5	11	1	9	71*	10	5	29*	17	22
URUGUAY	249	9	14	2	3	14	1	0	1	1	9*	1	3	16	2	1	49	2	11	28	0	0	0	0	15	12	4	3	1	1	0	59	7	2	28	14	2
VENEZUELAN	578	9	17	17	14	36	1	1	5	21	9	23	9	22	14	2	103	27*	18	59*	0	3	4	22	14	13	2	3	6	1	0	59	7	2	28	14	2
WEST. PUERTO RICO	133	5	7	0	0	6	0	0	3	2	3	5	1	6	2	6	34	1	2	8	0	1	0	6	9	7	2	0	1	4	1	6	0	0	2	4	4
MEMBERS OUTSIDE SECTIONS	70	2	1	2	2	3	0	0	0	0	1	0	1	2	8	0	10	0	2	8	0	0	1	3	1	2	0	0	1	1	2	13	1	0	2	3	0
TOTALS	8237	183	242	99	168	352	28	48	64	154	210	143	110	326	264	95	1777	143	201	696	13	58	46	359	258	158	72	33	126	31	47	946	86	47	458	243	136

\*=CHAPTER OR JOINT CHAPTER ESTABLISHED  
 #-NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1989

SECTION C																																					
REGION 10	TOTAL SOCIETY MEMBERS	TOTAL AFFILIATES	ASSP #	BT	AP	CAS	NPS	VT	R	CE	IM	AES	IT	IE	EM	ED	COMP	MTT	EMB	COM	UFFC	CHMT	OE	CS	RA	ED	PC	EMC	SMC	GRS	SIT	PE	DEI	MAG	IA	PEL	LEO
SECTION	MEMBERS	IATES	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
AUST CAPITOL TERR(ACT) (AUSC)	216	33	16	4	4	8	1	2	1	4	3	8	6	4	6	1	55	2	0	37	0	1	2	16	4	3	2	2	1	5	4	4	0	0	5	3	2
BANGALORE (IC)	349	6	11	0	6	13	1*	0	6	2	9	5*	8	20*	6*	3*	113*	5*	2	24*	2	4	2	17	7	4	5	6	4	1	3	27*	0	3	15*	12	4
BEIJING	553	10	32*	7	15	37*	3	6	9	7	15	12	10*	13	10	19	60*	38*	9	54	7	17*	1	15	10	8	5	15	8	5	2	45*	11	13	17	7	11
BOMBAY (IC)	921	12	15	1	6	31	5*	4	11	22	33	8*	8	51*	34*	20*	251*	8*	10	83*	4	15	3	48*	16	8	10	6	11	0	5	59*	14	17	53*	42	9
CALCUTTA (IC)	274	3	4	0	11	12	3*	2	3	1	13	2*	1	10*	9*	10*	68*	10*	5	15*	2	3	1	6	5	3	1	4	4	2	2	29*	5	1	10*	10	7
DELHI (IC)	591	7	19	1	5	22*	1*	1	12	12	14	15*	7	18*	11*	19*	167*	35*	6	45*	2	8	0	20*	9	3	2	6	6	0	3	70*	6	8	18*	16	4
HONG KONG	2063	59	78	21	20	104*	7	17	18	100	26	24	32	58	66	34	724*	26	15	281*	3	35	0	38	42	12	15	13	14	2	12	111*	8	9	37*	35	26
HYDERABAD (IC)	239	12	15	0	5	7	1*	2	4	1	10	4*	1	5*	3*	3	88*	6*	3	20*	2	2	1	5	1	0	4	2	5	1	0	20*	2	3	7*	4	2
INDONESIA	420	6	12	6*	13*	22	2	1	5	8	17	7*	5	17	25	3	85	8*	6	43*	3	7	1	15	7	16	8	2	3	3	7	26	2	0	19	8	8
KARACHI	113	0	2	0	3	0	0	0	0	1	3	1	1	9	4	0	32	1	4	14	0	0	1	4	1	1	1	1	1	0	0	16	0	0	4	6	3
KERALA (IC)	160	2	3	0	3	3	0	0	3	5	1	3*	1	10*	10	1*	57*	0	8	12*	0	3	2	3	2	1	2	0	1	0	0	6*	2	0	8*	7	3
KHARAGPUR (IC)	62	0	3	0	5	4	0	0	2	1	0	0	3	1*	0	9*	15*	4*	0	4*	0	0	0	5	0	2	0	0	0	0	0	2*	0	0	1*	0	1
KOREA	5009	49	388*	40	101	357*	37	58	67	98	67	129	198	172	40	242*	728*	145*	58	463	45	43	18	294	214	37	28	46	198	39	14	111	54	81	136	111	152
MADRAS (IC)	547	3	12	6	6	11	3*	4	4	14	12	10*	3	16*	38*	8*	152*	13*	17	46*	3	4	3	15	8	8	7	2	3	2	1	63*	5	3	26*	12	7
MALAYSIA	385	13	10	1	10	16	0	2	1																												

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1989

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 01										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
BERKSHIRE	137	79	21	4	3	1	0	0	0	0
BINGHAMTON	330	341	98	37	12	0	7	0	0	0
BOSTON (CNEC)	3624	4451	1731	652	241	104	127	1	1	2
BUFFALO	569	363	106	48	23	11	8	0	0	0
CONNECTICUT	1895	1451	515	196	80	38	29	0	0	0
ITHACA	112	173	72	29	8	4	2	0	0	0
LONG ISLAND (METSAC)	2193	1237	433	163	57	22	29	3	2	0
MAINE (CNEC)	341	182	60	24	5	5	5	0	0	0
MID-HUDSON	581	640	157	48	18	6	7	0	0	0
MOHAWK VALLEY	320	219	92	44	14	5	11	1	0	0
NEW HAMPSHIRE (CNEC)	681	761	213	82	29	15	14	0	0	0
NEW JERSEY COAST	1156	1153	459	133	39	18	15	2	1	0
NEW YORK (METSAC)	3025	2366	899	319	128	59	62	0	0	2
NORTH JERSEY (METSAC)	2608	1992	783	248	108	42	45	1	0	0
PRINCETON (METSAC)	1181	1208	416	160	62	17	21	0	1	0
PROVIDENCE (CNEC)	698	576	202	74	32	8	16	0	0	0
ROCHESTER	615	724	167	78	18	10	7	1	0	0
SCHENECTADY	477	603	210	87	30	12	12	1	1	0
SPRINGFIELD	184	204	97	44	17	3	5	0	0	0
SYRACUSE	379	424	166	60	25	6	4	0	0	0
VERMONT	268	236	80	19	8	1	2	0	0	0
WORCESTER COUNTY (CNEC)	391	510	166	54	17	5	9	0	0	0
<b>TOTAL REGION 01</b>	<b>21765</b>	<b>19893</b>	<b>7143</b>	<b>2603</b>	<b>974</b>	<b>392</b>	<b>437</b>	<b>10</b>	<b>6</b>	<b>4</b>
NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 02										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AKRON	265	237	79	27	9	3	3	2	0	0
ALLEGHENY MOUNTAIN	43	18	6	3	1	1	1	0	0	0
BALTIMORE	1763	1672	608	210	79	29	32	2	0	1
CANTON	135	68	23	9	3	1	1	0	0	0
CENTRAL PENNSYLVANIA	314	274	87	43	7	2	9	0	0	0
CINCINNATI	448	307	117	31	14	6	7	1	0	0
CLEVELAND	812	632	229	91	34	13	18	0	0	0
COLUMBUS	726	693	225	87	37	18	15	0	0	0
DAYTON	673	560	239	73	36	6	16	0	0	0
DELAWARE BAY	217	220	73	31	16	5	5	0	0	0
EASTERN SHORE	94	48	9	5	0	1	1	0	0	0
ERIE	142	58	31	9	4	2	1	0	0	0
JOHNSTOWN	115	59	12	1	5	1	1	0	0	0
LEHIGH VALLEY	779	609	229	70	29	12	10	0	0	0
LIMA	122	35	7	6	2	0	1	0	0	0
NORTH CENTRAL OHIO	34	26	4	3	1	1	0	0	0	0
NORTHERN VIRGINIA (NCAC)	2095	2282	933	317	144	55	81	0	0	0
OHIO VALLEY	66	18	7	0	1	0	1	0	0	0
PHILADELPHIA	2861	2133	809	266	123	60	50	0	0	1
PITTSBURGH	1227	1146	420	130	63	27	16	0	0	0
SHARON	176	64	32	4	3	1	0	0	0	0
SOUTHERN NEW JERSEY	106	66	25	5	2	1	0	0	0	0
SUSQUEHANNA	443	238	76	21	14	5	7	0	0	0
WASHINGTON (NCAC)	2553	2667	934	391	123	51	55	2	2	0
WEST VIRGINIA	129	56	17	4	2	1	2	0	0	0
<b>TOTAL REGION 02</b>	<b>16338</b>	<b>14186</b>	<b>5231</b>	<b>1837</b>	<b>752</b>	<b>302</b>	<b>333</b>	<b>7</b>	<b>2</b>	<b>2</b>

SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1989

NUMBER OF IEEE SOCIETY MEMBERSHIPS											
REGION 03											
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL	
ALABAMA	687	485	134	54	17	11	6	0	0	0	0
ATLANTA	1686	1467	588	214	94	40	26	0	0	0	0
BATON ROUGE	168	107	41	11	9	4	0	0	0	0	0
BROWARD (FC)	360	294	81	22	14	2	8	0	0	0	0
CANAVERAL (FC)	178	90	37	15	2	2	1	0	0	0	0
CENTRAL GEORGIA	177	113	39	15	5	2	1	0	0	0	0
CENTRAL NORTH CAROLINA (NCC)	235	99	34	10	4	0	2	0	0	0	0
CENTRAL SAVANNAH RIVER (SCC)	132	79	26	8	3	1	1	0	0	0	0
CENTRAL VIRGINIA (VC)	290	217	70	45	18	8	6	1	0	0	0
CHARLOTTE (NCC)	495	384	88	19	7	6	2	0	0	0	0
CHATTANOOGA (TC)	201	147	31	6	4	2	0	0	0	0	0
COASTAL SOUTH CAROLINA (SCC)	236	124	40	17	4	4	1	0	0	0	0
COLUMBIA (SCC)	216	188	48	17	7	5	1	0	0	0	0
DAYTONA (FC)	152	65	17	6	2	0	1	0	0	0	0
EAST TENNESSEE (TC)	461	254	88	34	10	3	10	0	0	0	0
EASTERN NORTH CAROLINA (NCC)	1037	1103	375	140	53	17	12	0	0	0	0
EVANSVILLE-OWENSBORO	261	86	36	11	5	0	4	0	0	0	0
FLORIDA WEST COAST (FC)	1093	845	201	80	30	16	12	1	1	0	0
GAINESVILLE (FC)	187	181	68	31	7	2	6	0	0	0	0
HAMPTON ROADS (VC)	485	294	112	33	15	3	8	0	0	0	0
HUNTSVILLE	707	578	200	69	31	16	10	2	0	0	0
JACKSONVILLE (FC)	196	108	29	10	5	1	2	0	0	0	0
JAMAICA	48	31	32	17	6	6	6	0	0	0	0
LEXINGTON	198	123	52	15	5	2	6	0	0	0	0
LOUISVILLE	358	141	40	13	4	1	1	0	0	0	0
MEMPHIS (TC)	347	163	52	24	8	3	7	1	0	0	0
MIAMI (FC)	525	365	122	28	11	8	12	0	0	0	0
MIDDLE TENNESSEE (TC)	63	31	12	6	3	0	1	0	0	0	0
MISSISSIPPI	256	217	53	12	10	2	4	0	0	0	0
MOBILE	184	70	15	3	4	2	1	0	0	0	0
NASHVILLE (TC)	370	204	82	26	19	4	6	0	0	0	0
NEW ORLEANS	388	327	102	36	13	8	3	0	0	0	0
NORTHWEST FLORIDA (FC)	230	113	47	18	4	3	2	0	0	0	0
OAK RIDGE (TC)	82	86	26	9	1	0	0	0	0	0	0
ORLANDO (FC)	579	445	157	54	16	9	4	0	0	0	0
PALM BEACH (FC)	588	399	115	29	14	7	4	0	0	0	0
PIEDMONT (SCC)	313	192	72	23	8	5	3	0	0	0	0
RICHMOND (VC)	316	233	76	30	6	7	2	0	0	0	0
SAVANNAH	58	33	1	5	1	0	1	0	0	0	0
SO BREVARD INDIAN RIVER (FC)	469	389	156	57	18	6	6	0	0	0	0
TALLAHASSEE AREA (FC)	187	89	33	16	4	3	2	0	0	0	0
TRI CITIES (TC)	121	93	37	14	4	2	1	0	0	0	0
VIRGINIA MOUNTAIN (VC)	377	249	89	35	16	3	10	0	0	0	0
WESTERN NORTH CAROLINA (NCC)	120	72	20	5	5	1	0	0	1	0	0
WINSTON-SALEM (NCC)	99	63	17	7	1	1	1	0	0	0	0
<u>TOTAL REGION 03</u>	<u>15916</u>	<u>11436</u>	<u>3791</u>	<u>1349</u>	<u>527</u>	<u>228</u>	<u>203</u>	<u>5</u>	<u>2</u>	<u>0</u>	<u>0</u>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1989

NUMBER OF IEEE SOCIETY MEMBERSHIPS											
REGION 04											
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL	
ARROWHEAD	146	89	19	9	3	1	1	0	0	0	
CALUMET	301	168	64	19	8	4	4	0	0	0	
CEDAR RAPIDS	247	155	49	25	4	6	1	0	0	0	
CENTRAL ILLINOIS	302	452	173	70	17	10	6	0	0	0	
CENTRAL INDIANA	960	862	322	126	51	14	12	0	0	0	
CENTRAL IOWA	349	204	66	19	10	0	4	0	0	0	
CHICAGO	2714	2558	921	312	144	59	58	1	0	0	
FORT WAYNE	275	149	71	19	13	5	2	0	0	0	
ILLINOIS VALLEY	128	76	22	11	0	4	1	0	0	0	
IOWA-ILLINOIS	121	106	18	10	2	0	7	0	0	0	
MADISON	215	317	134	43	17	5	7	0	0	0	
MICHIANA	187	131	66	27	13	7	5	0	0	0	
MILWAUKEE	780	790	248	95	43	26	26	1	0	0	
MISSOURI SLOPE	27	34	9	2	1	0	0	0	0	0	
NEBRASKA	417	277	114	39	10	7	4	1	0	0	
NORTHEAST MICHIGAN	204	122	50	7	13	5	1	0	0	0	
NORTHEASTERN WISCONSIN	379	279	92	26	11	10	3	0	0	0	
RED RIVER VALLEY	236	104	33	9	6	4	3	0	0	0	
ROCK RIVER VALLEY	162	96	46	16	8	3	5	0	0	0	
SIOUXLAND	114	62	20	8	3	2	0	0	0	0	
SOUTHEASTERN MICHIGAN	1598	1506	596	223	118	38	40	0	0	0	
SOUTHERN MINNESOTA	194	185	39	14	6	6	3	0	0	0	
TOLEDO	293	155	53	21	7	4	1	0	0	0	
TWIN CITIES	1121	1421	516	154	71	38	31	2	0	0	
WEST MICHIGAN	372	211	66	29	7	0	3	0	1	0	
<b>TOTAL REGION 04</b>	<b>11842</b>	<b>10509</b>	<b>3807</b>	<b>1333</b>	<b>586</b>	<b>258</b>	<b>228</b>	<b>5</b>	<b>1</b>	<b>0</b>	
NUMBER OF IEEE SOCIETY MEMBERSHIPS											
REGION 05											
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL	
ARKANSAS	282	167	40	12	3	0	3	0	0	0	
BEAUMONT	161	46	13	8	3	1	1	0	0	0	
CENTRAL TEXAS	919	1421	418	131	60	26	30	0	0	1	
CORPUS CHRISTI	166	105	28	16	3	3	1	0	0	0	
DALLAS	1652	2034	671	251	91	43	32	0	0	0	
DENVER	1660	1520	575	204	90	36	39	0	0	0	
EL PASO	418	142	60	25	15	2	7	0	0	0	
FORT WORTH	697	649	245	93	36	21	8	0	0	0	
GALVESTON BAY	343	258	71	35	14	3	1	0	0	0	
HOUSTON	1601	1328	439	162	67	20	32	0	0	0	
KANSAS CITY	860	572	175	52	24	14	11	0	0	0	
LAFAYETTE	153	92	22	6	2	0	2	0	0	0	
OKLAHOMA CITY	343	205	78	35	10	5	2	0	0	0	
OZARK	147	59	27	6	4	2	2	0	0	0	
PANHANDLE	91	47	7	1	2	0	0	0	0	0	
PERMIAN BASIN	47	27	3	2	0	3	0	0	0	0	
PIKES PEAK	424	419	150	50	22	7	7	1	0	0	
SAINT LOUIS	1378	1031	376	145	53	16	22	1	0	0	
SHREVEPORT	225	83	35	6	6	3	0	0	0	0	
SOUTH PLAINS	177	63	30	13	8	4	3	0	0	0	
TULSA	358	209	68	38	11	5	8	0	0	0	
WICHITA	223	169	64	20	6	3	1	0	1	0	
<b>TOTAL REGION 05</b>	<b>12325</b>	<b>10646</b>	<b>3595</b>	<b>1311</b>	<b>530</b>	<b>217</b>	<b>212</b>	<b>2</b>	<b>1</b>	<b>1</b>	

SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS, BY REGION, BY SECTION, DECEMBER 31, 1989

NUMBER OF IEEE SOCIETY MEMBERSHIPS											
REGION 06											
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL	
ALAMOGORDO-HOLLOMAN	28	14	9	5	1	0	1	0	0	0	
ALASKA	138	92	30	20	11	6	6	0	0	0	
ALBUQUERQUE	548	514	186	81	32	5	10	1	0	1	
BOISE	114	124	30	12	7	0	2	0	0	0	
BUENAVENTURA (LAC)	521	425	186	69	31	12	11	0	1	0	
CHINA LAKE (LAC)	146	123	31	14	5	1	1	1	0	0	
EASTERN MONTANA	48	19	10	2	0	0	0	0	0	0	
FOOTHILL (LAC)	751	526	180	76	30	12	12	0	0	0	
FORT HUACHUCA	78	50	23	8	2	1	1	0	0	0	
HAWAII	479	236	74	24	6	5	5	0	0	0	
IDAHO	75	62	20	8	3	0	2	1	0	0	
LAS VEGAS	129	102	23	7	6	6	1	0	0	0	
LOS ALAMOS	114	103	42	15	9	3	4	0	0	0	
METROPOLITAN LOS ANGELES (LAC)	398	410	149	62	30	9	14	1	0	0	
MONTANA	148	77	29	8	2	2	0	0	0	0	
NORTHERN NEVADA	158	89	34	13	5	2	1	0	0	0	
OAKLAND EAST BAY (SFBAC)	1182	1692	643	220	86	36	39	1	0	0	
ORANGE COUNTY (LAC)	1941	1776	597	238	90	29	42	0	1	0	
PHOENIX	1366	1340	464	152	59	17	19	0	1	0	
PORTLAND	909	1274	354	135	36	14	19	1	0	1	
RICHLAND	154	93	34	13	6	0	3	0	0	0	
SACRAMENTO	754	672	199	73	40	9	13	0	0	0	
SAN DIEGO	1391	1358	539	230	93	39	40	1	0	1	
SAN FERNANDO VALLEY (LAC)	987	793	318	121	42	20	23	1	0	1	
SAN FRANCISCO (SFBAC)	698	907	270	96	34	16	22	1	0	0	
SAN GABRIEL VALLEY (LAC)	441	488	217	81	30	12	17	0	0	0	
SANTA BARBARA (LAC)	370	290	162	49	28	12	9	0	0	0	
SANTA CLARA VALLEY (SFBAC)	3226	5782	2145	811	341	106	128	4	2	1	
SANTA MONICA BAY (LAC)	525	595	267	117	48	29	21	1	0	0	
SEATTLE	1409	1566	570	190	82	29	35	0	0	0	
SOUTH BAY HARBOR (LAC)	1008	1049	467	169	72	23	31	0	0	0	
SPOKANE	338	165	49	19	9	4	1	0	0	0	
TUCSON	330	316	107	55	21	6	12	0	0	0	
UTAH	506	441	159	61	22	7	11	0	0	0	
VANDENBERG	79	50	19	6	0	2	0	0	0	0	
WENATCHEE	50	28	2	1	2	0	0	0	0	0	
<b>TOTAL REGION 06</b>	<b>21537</b>	<b>23641</b>	<b>8638</b>	<b>3261</b>	<b>1321</b>	<b>474</b>	<b>556</b>	<b>14</b>	<b>5</b>	<b>5</b>	



## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1989

## NUMBER OF IEEE SOCIETY MEMBERSHIPS

## REGION 07

SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
CANADIAN ATLANTIC (ECC)	147	88	56	17	7	3	7	0	0	0
HAMILTON (CCC)	413	230	92	51	31	4	4	0	0	0
KINGSTON (CCC)	142	97	44	29	6	5	2	0	0	0
KITCHENER-WATERLOO (CCC)	141	187	88	34	18	3	5	0	0	0
LONDON (CCC)	189	97	43	14	11	1	4	0	0	0
MONTREAL (ECC)	938	974	373	172	80	33	30	5	0	1
N SASKATCHEWAN (WCC)	192	68	24	10	7	3	5	0	0	0
NEW BRUNSWICK (ECC)	193	71	25	16	7	3	1	0	0	0
NEWFOUNDLAND-LABRADOR (ECC)	75	36	13	13	3	3	0	0	0	0
NORTHERN CANADA (WCC)	257	267	125	44	22	5	5	0	0	0
OTTAWA (ECC)	828	850	406	144	68	23	26	1	0	0
PETERBOROUGH (CCC)	39	30	20	6	5	1	2	0	0	0
QUEBEC (ECC)	192	103	37	23	9	5	4	0	0	0
S SASKATCHEWAN (WCC)	116	43	20	12	5	4	3	0	0	0
SAINT MAURICE (ECC)	35	11	5	6	7	1	2	0	0	0
SOUTHERN ALBERTA (WCC)	299	247	122	54	25	10	9	0	0	0
TORONTO (CCC)	1468	1238	511	210	94	73	57	1	0	0
VANCOUVER (WCC)	548	494	202	86	37	20	22	1	0	0
VICTORIA (WCC)	115	89	46	23	10	5	4	0	0	0
WINNIPEG (WCC)	306	211	98	36	15	5	9	0	0	0
<u>TOTAL REGION 07</u>	<u>6633</u>	<u>5431</u>	<u>2350</u>	<u>1000</u>	<u>467</u>	<u>210</u>	<u>201</u>	<u>8</u>	<u>0</u>	<u>1</u>

## NUMBER OF IEEE SOCIETY MEMBERSHIPS

## REGION 08

SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AUSTRIA	25	129	43	41	25	13	21	0	0	0
BENELUX	610	862	343	169	65	39	64	6	0	0
CENTRAL & SOUTH ITALY	81	215	138	77	46	19	47	4	2	2
DENMARK	37	157	94	48	32	19	24	1	0	0
EAST AFRICA	41	42	19	10	5	4	7	0	0	0
EGYPT	32	119	52	31	19	5	14	1	0	1
FINLAND	56	163	93	53	18	18	24	1	0	0
FRANCE	221	517	230	116	73	31	81	7	3	2
GERMANY (WEST)	326	1095	503	222	104	65	94	5	1	0
GREECE	145	234	150	84	48	16	37	0	0	0
HUNGARY	42	20	4	2	0	0	0	0	0	0
IRAN	76	170	100	74	70	52	132	8	1	0
ISRAEL	285	375	151	95	27	19	30	0	3	1
JEDDAH	50	42	35	16	6	3	5	0	0	0
NIGERIA	57	28	23	7	7	1	1	0	0	0
NORTH ITALY	262	416	205	115	48	33	65	5	2	1
NORWAY	28	134	66	31	27	16	26	0	0	0
POLAND	12	66	25	14	8	0	2	0	0	0
PORTUGAL	91	141	72	36	18	3	11	1	0	0
SAUDI ARABIA	161	208	108	52	28	17	21	0	0	0
SOUTH AFRICA	67	136	101	57	29	15	19	0	0	0
SPAIN	129	502	235	131	85	49	88	11	2	2
SWEDEN	59	306	184	86	43	14	64	4	0	0
SWITZERLAND	319	663	323	142	49	34	50	0	0	0
TURKEY	34	55	47	27	14	9	13	1	0	1
UNITED ARAB EMIRATES	62	61	29	14	4	3	1	0	0	0
UNITED KINGDOM & REP IRELAND	802	1453	658	289	132	49	46	2	0	0
YUGOSLAV	20	161	117	62	39	19	12	0	0	0
COUNTRIES OUTSIDE SECTION	284	272	135	73	35	17	28	1	0	0
<u>TOTAL REGION 08</u>	<u>4414</u>	<u>8742</u>	<u>4283</u>	<u>2174</u>	<u>1104</u>	<u>582</u>	<u>1027</u>	<u>58</u>	<u>14</u>	<u>10</u>



## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1989

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 09										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARGENTINA	154	224	87	42	21	13	33	1	0	0
BAHIA (BC)	15	31	16	10	4	2	5	0	0	0
BRASILIA (BC)	12	59	21	10	1	0	3	0	0	0
CHILE	316	299	70	20	13	6	3	0	0	0
COLOMBIA	168	245	99	49	20	13	9	0	0	0
COSTA RICA (CAPC)	55	37	8	4	3	1	1	0	0	0
ECUADOR	11	30	21	10	4	1	2	0	0	0
EL SALVADOR (CAPC)	75	37	10	5	2	3	0	0	0	0
GUATEMALA (CAPC)	237	59	11	2	0	0	1	0	0	0
HONDURAS (CAPC)	64	11	9	1	0	0	1	0	0	0
MEXICO (MC)	533	352	142	52	34	20	20	0	0	0
MONTERREY (MC)	313	159	40	21	13	4	3	0	0	0
MORELOS (MC)	23	70	25	10	4	4	4	0	0	0
PANAMA (CAPC)	175	82	33	15	9	4	3	0	0	0
PERU	88	57	41	14	9	1	5	0	0	0
PUERTO RICO & CARIBBEAN	366	198	86	23	15	5	9	0	0	0
RIO DE JANEIRO (BC)	20	108	56	24	6	2	7	0	0	0
SAO PAULO (BC)	72	193	83	46	24	11	16	0	0	0
URUGUAY	39	57	38	20	11	1	1	0	0	0
VENEZUELAN	308	129	90	28	24	7	8	0	0	0
WEST. PUERTO RICO	215	47	15	10	1	3	1	0	0	0
COUNTRIES OUTSIDE SECTION	13	20	12	3	3	1	0	0	0	0
<b>TOTAL REGION 09</b>	<b>3272</b>	<b>2504</b>	<b>1013</b>	<b>419</b>	<b>221</b>	<b>102</b>	<b>135</b>	<b>1</b>	<b>0</b>	<b>0</b>

## NUMBER OF IEEE SOCIETY MEMBERSHIPS

REGION 10										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AUST CAPITOL TERR(ACT) (AUSC)	22	43	33	16	4	5	3	0	0	0
BANGALORE (IC)	328	140	32	9	4	0	9	1	0	0
BEIJING	112	269	55	8	10	0	4	4	0	0
BOMBAY (IC)	487	359	82	36	14	10	15	3	0	0
CALCUTTA (IC)	127	117	37	14	6	1	2	0	0	0
DELHI (IC)	335	256	73	28	7	5	7	0	0	0
HONG KONG	673	675	252	115	43	17	29	2	0	0
HYDERABAD (IC)	309	127	18	4	2	1	4	1	0	0
INDONESIA	32	82	47	28	13	2	10	1	0	0
KARACHI	94	39	13	5	3	3	1	0	0	0
KERALA (IC)	435	90	19	6	1	2	0	0	0	0
KHARAGPUR (IC)	9	33	7	5	0	0	0	0	0	0
KOREA	204	618	489	263	158	94	133	12	2	5
MADRAS (IC)	1230	278	62	18	5	2	4	0	1	0
MALAYSIA	117	121	53	22	13	2	4	0	0	0
NEW SOUTH WALES (AUSC)	246	420	244	133	69	34	42	0	0	0
NEW ZEALAND NORTH (NZC)	41	85	42	14	10	3	1	0	0	0
NEW ZEALAND SOUTH (NZC)	61	99	33	21	12	4	1	0	1	0
PAKISTAN	85	64	13	10	2	1	1	0	0	0
QUEENSLAND (AUSC)	128	136	84	46	23	12	10	0	0	0
REPUBLIC OF THE PHILIPPINES	65	73	13	9	7	1	3	0	0	0
SINGAPORE	901	623	197	69	41	24	23	0	0	0
SOUTH AUSTRALIA (AUSC)	88	71	60	30	17	10	10	0	0	0
TAIPEI	126	431	212	133	78	29	53	2	0	0
THAILAND	50	74	40	18	11	9	11	2	0	1
TOKYO	428	3023	1443	576	270	137	256	17	7	7
VICTORIAN (AUSC)	125	340	214	99	54	14	37	0	0	0
WESTERN AUSTRALIA (AUSC)	135	118	49	22	17	6	6	0	0	0
COUNTRIES OUTSIDE SECTION	75	102	47	10	1	4	1	0	0	0
<b>TOTAL REGION 10</b>	<b>7068</b>	<b>8906</b>	<b>3963</b>	<b>1767</b>	<b>895</b>	<b>432</b>	<b>680</b>	<b>45</b>	<b>11</b>	<b>13</b>

SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council	Location	
AES-10	Aerospace & Electronic Systems	28	Atlanta	Indonesia	Rochester
			Binghamton	Israel	Santa Clara Valley
			Central New England Council	Los Angeles Council	/San Francisco
			Dallas	Mohawk Valley	Seattle
			Dayton	New Jersey Coast	Southeastern Michigan
			Denver	New South Wales	Spain
			Fort Worth	NY/North Jersey	Toronto
			Huntsville	Orange County	Vancouver
			India Council	Orlando	Washington/No Virginia
				Ottawa	
				Philadelphia	
			AP-03	Antennas & Propagation	53
Atlanta	Israel	Saint Louis			
Baltimore	Kitchener-Waterloo	San Diego			
Benelux	Long Island/NY	South Africa			
Buffalo	Los Angeles Council	S Brevard-Indian River			
Central New England Council	Milwaukee	Southeastern Michigan			
Central & South Italy	Montreal	Seattle			
Chicago	New Jersey Coast	Spain			
Columbus	New South Wales	Spokane			
Dallas	North Italy	Springfield			
Dayton	North Jersey	Sweden			
Denver	Oakland-East Bay/ Santa Clara Valley/ San Francisco	Switzerland			
Egypt	Orlando	Syracuse			
Finland	Ottawa	Tokyo			
Florida West Coast	Philadelphia	Tucson			
Houston	Phoenix	Vancouver			
Huntsville	Princeton	Washington/No Virginia			
		Germany (West)			
		Winnipeg			
**ASSP-01	Acoustic, Speech & Signal Processing	38			
			Beijing	Kitchener-Waterloo	San Diego
			Central New England Council	Korea	Santa Clara Valley
			Central Pennsylvania	Long Island	South Africa
			Central Texas	Milwaukee	Southeastern Michigan
			Columbus	New South Wales	Spain
			Connecticut	Northern Virginia	Switzerland
			Chicago	North Jersey	Tokyo
			Dallas	Ottawa	Twin Cities
			Dayton	Los Angeles Council	United Kingdom & the Republic of Ireland
			Finland	Orlando	Washington
			Florida West Coast	Philadelphia	Yugoslavia
			France	Pittsburgh	
BT-02	Broadcast Technology	5	New York	Ottawa	Tokyo
			Indonesia	Philadelphia	
CAS-04	Circuits & Systems	37	Beijing	Korea	Rio de Janeiro
			Buenaventura	Lehigh Valley	Seattle
			Central New England Council	Los Angeles Council	Singapore
			Dallas/Fort Worth	Montreal	Southeastern Michigan
			Delhi	New Jersey Coast	Spokane
			Finland	North Italy	Switzerland
			Germany (West)	Ottawa	Syracuse
			Hamilton	Philadelphia	Taipei
			Hong Kong	Phoenix	Tokyo
			Houston	Pikes Peak	Toronto
			Israel	Portland	Twin Cities
			Kitchener-Waterloo	Princeton	United Kingdom & the Republic of Ireland
					Yugoslavia

\*\* NAME CHANGED TO SIGNAL PROCESSING (SP) EFFECTIVE 01/01/90

SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council Location	Section/Council Location	Section/Council Location
CE-08	Consumer Electronics	6	Chicago New York	Ottawa Philadelphia	Princeton Tokyo
COMM-19	Communications	72	Alabama Argentina Atlanta Baltimore Broward Central New Eng- land Council Central Texas Charlotte Chicago Columbus Dallas Dayton Denver El Salvador France Galveston Bay Hamilton Hong Kong Houston India Council Indonesia Israel Kansas City Kitchener-Waterloo	Long Island Los Angeles Council Maine Mexico Miami Milwaukee Mohawk Valley Montreal New Hampshire New Jersey Coast New Orleans New South Wales New York North Jersey Oakland East Bay Orlando Ottawa Peru Philadelphia Pittsburgh Phoenix Portland Princeton Puerto Rico & Caribbean	Rochester Sacramento Saint Louis San Diego Santa Clara Valley San Francisco Seattle Singapore South Africa Southeastern Michigan Spain Sweden Switzerland Tokyo Toronto Tucson Twin Cities United Kingdom & the Republic of Ireland Vancouver Venezuela Victorian Winnipeg Washington/No Virginia Yugoslavia
CHMT-21	Components, Hybrids & Manufacturing Technology	11	Beijing Central New Eng- land Council Chicago Los Angeles Council	Philadelphia Phoenix Portland San Diego	Santa Clara Valley/ San Francisco/ Oakland-East Bay Toronto Tokyo
CS-23	Control Systems	33	Berkshire Buffalo Chile Columbus Dayton Delhi Fort Worth Hamilton Huntsville Israel Kitchener-Waterloo Los Angeles Council	Mexico Milwaukee North Jersey Philadelphia Phoenix Pittsburgh Portland Rochester San Diego Santa Clara Valley /San Francisco Sao Paulo	Schenectady Singapore Southeastern Michigan Spokane Taipei Tokyo Toledo United Kingdom & the Republic of Ireland Vancouver Wichita

SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council Location	Location	
COMP-16	Computer	124	Akron	Hampton Roads	Portland
			Alabama	Hong Kong	Princeton
			Albuquerque	Houston	Puerto Rico & Caribbean
			Argentina	Huntsville	Quebec
			Arkansas	Illinois Valley	Richland
			Atlanta	Indian Council	Rio de Janeiro
			Baltimore	Israel	Rochester
			Binghamton	Kharagpur	Sacramento
			Beijing	Kingston	Saint Louis
			Berkshire	Kitchener-Waterloo	San Diego
			Broward	Korea	Santa Clara Valley
			Buffalo	Long Island	/Oakland-East Bay
			Calumet	Los Angeles Council	/San Francisco
			Canadian Atlantic	Louisville	Sao Paulo
			Cedar Rapids	Maine	Schenectady
			Central Georgia	Mexico	Seattle
			Central New England Council	Miami	Singapore
			Central Texas	Mid-Hudson	South Africa
			Charlotte	Milwaukee	S Brevard Indian River
			Chicago	Mohawk Valley	South Saskatchewan
			Chile	Montreal	Southeastern Michigan
			China Lake	Nashville	Southern Alberta
			Cleveland	Nebraska	Southern Minnesota
			Columbus	New Hampshire	Spain
			Connecticut	New Jersey Coast	Spokane
			Corpus Christi	New Orleans	Switzerland
			Dallas	New South Wales	Syracuse
			Dayton	New York	Taipei
			Delaware Bay	New Zealand North	Tokyo
			Denver	North Jersey	Toledo
			Eastern No Carolina	Northern Canada	Toronto
			Eastern Shore	Northern Virginia	Tri Cities
			East Tennessee/Oak Ridge	Oklahoma City	Tucson
			Egypt	Orange County	Twin Cities
			Finland	Orlando	United Kingdom & the Republic of Ireland
			Florida West Coast	Ottawa	Vancouver
			Fort Worth	Palm Beach	Victorian
			France	Panama	Washington
			Gainsville	Peru	Wichita
			Galveston Bay	Philadelphia	Winnipeg
			Germany (West)	Phoenix	Worcester County
Hamilton	Pikes Peak				
	Pittsburgh				
DEI-32	Dielectrics & Electrical Insulation	4	Montreal/Ottawa Tokyo	Toronto/Kingston/ Hamilton/London/ Kitchener-Waterloo	Vancouver
E-25	Education	5	Central New England Council	Los Angeles Council Mexico	Tokyo Winnipeg
EMC-27	Electromagnetic Compatibility	26	Albuquerque Atlanta Central New England Council Central Texas Chicago Dallas/Fort Worth Dayton Denver	Denver (Littleton) France Israel Long Island/NY Los Angeles Council Mohawk Valley New Jersey Coast Orange County Ottawa	Philadelphia Phoenix San Diego Santa Clara Valley Seattle Tokyo Tucson Twin Cities Washington/No Virginia

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council	Location	
ED-15	Electron Devices	41	Albuquerque	Milwaukee	Santa Clara Valley
			Buenaventura	New Jersey Coast	/San Francisco
			Central New Eng- land Council	North Italy	Schenectady
			Chicago	Orlando	Southeastern Michigan
			Cleveland	Ottawa	Spokane
			Dallas	Philadelphia	Springfield
			Houston	Phoenix	Switzerland
			India Council	Pikes Peak	Syracuse
			Israel	Pittsburgh	Tokyo
			Kitchener-Waterloo	Portland	Toronto
			Korea	Princeton	Twin Cities
			Lehigh Valley	Rio de Janeiro	United Kingdom & Republic of Ireland
			Los Angeles Council	Rochester	Virginia Mountain
			Mid-Hudson	Saint Louis	Washington/No Virginia
EM-14	Engineering Management	31	Atlanta	Mexico	San Diego
			Buffalo	Miami	Santa Clara Valley
			Canaveral	Mohawk Valley	/ San Francisco
			Central New Eng- land Council	Montreal	Sao Paulo
			Chicago	Nebraska	Spokane
			Cleveland	New Jersey Coast	Toronto
			Dayton	North Jersey/NY	Tri-Cities
			El Salvador	Ottawa	Washington/No Virginia
			Huntsville	Philadelphia	Winnipeg
			Indian Council	Pittsburgh	
			Los Angeles Council	Portland	
	Rochester				
EMB-18	Engineering in Medicine	28	Atlanta	Houston	Princeton
			Baltimore	Los Angeles Council	Rochester
			Central New Eng- land Council	Memphis	Santa Clara Valley
			Chicago	Miami	Sao Paulo
			Cleveland	Milwaukee	Seattle
			Columbus	Montreal	Tokyo
			Dallas/Fort Worth	NY/Long Island/ North Jersey	Twin Cities
			Dayton	Oakland-East Bay	Washington/No Virginia
			Denver	Philadelphia	Winnipeg
				Portland	
GRS-29	Geoscience & Remote Sensing	8	Denver	Oakland East Bay	Springfield
			Los Angeles Council	Santa Clara Valley	Tokyo
				Southeastern Michigan	Washington/No Virginia
IE-13	Industrial Electronics	17	Arkansas	Kerala	Rochester
			Chicago	Los Angeles Council	Singapore
			Chile	Mexico	Tokyo
			Cleveland	Milwaukee	Toledo
			India Council	Montreal/St. Maurice	Vancouver
			Israel	North Italy	

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council	Location	
IA-34	Industry Applications	66	Akron	Houston	Philadelphia
			Alabama	India Council	Phoenix
			Atlanta	Israel	Pittsburgh
			Bahia	Kerala	Portland
			Baltimore	Los Angeles Council	Rio de Janeiro
			Baton Rouge	Maine	Rochester
			Buffalo	Memphis	San Francisco
			Calumet	Mexico	Sao Paulo
			Canadian Atlantic	Miami	Schenectady
			Central New Eng- land Council	Middle Tennessee	Seattle
			Chicago	Milwaukee	Southern Alberta
			Cincinnati	Montreal	Southeastern Michigan
			Cleveland	Nashville	Spokane
			Columbus	North Jersey	Syracuse
			Dallas	Northern Canada	Tokyo
			Dayton	NY/Long Island	Toledo
			Delaware Bay	New Zealand North	Toronto
			Denver	Orange County	Tulsa
			Eastern No Carolina	Oakland-East Bay	Twin Cities
			El Salvador	Oklahoma City	Vancouver
			Hamilton	Orlando	Virginia Mountain
Hong Kong	Panama	Wichita			
IT-12	Information Theory	14	Beijing	Kitchener-Waterloo	Santa Clara Valley
			Benelux	Los Angeles Council	/San Francisco
			Central New Eng- land Council	Montreal	Southeastern Michigan
			Denver	Philadelphia	Tokyo
			Hamilton	Phoenix	Washington/No Virginia
IM-09	Instrumentation & Measurement	15	Central New Eng - land Council	Montreal	San Diego
			Cleveland	NY/Long Island/ North Jersey	Tokyo
			Denver	North Italy	Toronto
			Los Angeles Council	Ottawa	Uruguay
			Milwaukee	Portland	Washington
LEO-36	Lasers and Electro-Optics	21	Atlanta	Long Island	Orlando
			Central New Eng- land Council	Los Alamos	Ottawa
			Central Texas	Los Angeles Council	Portland
			Chicago	Mohawk Valley	Princeton
			Cleveland	New Jersey Coast	Springfield
			Dallas	Oakland East Bay/San Francisco/Santa Clara Valley	Tokyo
			Huntsville		Toronto
					Washington/No Virginia
MAG-33	Magnetics	13	Central New Eng- land Council	Philadelphia	Tokyo
			Houston	Pittsburgh	Twin Cities
			Los Angeles Council	Rochester	United Kindgom & the Republic of Ireland
			Milwaukee	San Diego	Washington/No Virginia
				Santa Clara Valley /San Francisco	

SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council	Location	
MTI-17	Microwave Theory & Techniques	68	Albuquerque	Indonesia	Santa Clara Valley
			Atlanta	Israel	/San Francisco
			Baltimore	Ithaca	Sao Paulo
			Beijing	Kitchener-Waterloo	Schenectady
			Benelux	Korea	Seattle
			Buffalo	Long Island/NY	South Africa
			Central New Eng- land Council	Los Angeles Council	S Brevard-Indian River
			Central & South Italy	Milwaukee	Southeastern Michigan
			Chicago	Montreal	Spain
			Columbus	New Hampshire	Springfield
			Cleveland	New Jersey Coast	Sweden
			Dallas	New South Wales	Switzerland
			Dayton	North Italy	Syracuse
			Denver	North Jersey	Taipei
			Egypt	Orlando	Tokyo
			Finland	Ottawa	Tucson
			Florida West Coast	Philadelphia	Twin Cities
			France	Phoenix	United Kingdom & the Republic of Ireland
			Germany (West)	Portland	Venezuela
			Houston	Princeton	Virginia Mountain
			Huntsville	Rio de Janeiro	Washington/No Virginia
India Council	Saint Louis	Winnipeg			
	San Diego	Yugoslavia			
	San Fernando Valley				
NPS-05	Nuclear & Plasma Sciences	5	Central New Eng- land Council	Los Angeles Council	Washington/No Virginia/ Baltimore
			India Council	Tokyo	
OE-22	Oceanic Engineering	8	Canadian Atlantic	Houston/Galveston Bay	Seattle
			Central New Eng- land Council	New Orleans	Victoria
				San Diego	Washington/No Virginia
PC-26	Professional Communication	8	Central New Eng- land Council	Los Angeles Council	United Kingdom & the Republic of Ireland
			Chicago	Ottawa	Washington/No Virginia
				Philadelphia	Winnipeg
PEL-35	Power Electronics	1	North Italy		



## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council	Location				
PE-31	Power Engineering	124	Akron	Guatemala	Pittsburgh			
			Alabama	Hong Kong	Portland			
			Albuquerque	Hamilton	Princeton			
			Argentina	Houston	Providence			
			Arkansas	India Council	Puerto Rico & Caribbean			
			Atlanta	Israel	Richland			
			Baltimore	Jacksonville	Rio de Janeiro			
			Bahia	Kansas City	Rochester			
			Bangalore	Las Vegas	Sacramento			
			Beijing	Lehigh Valley	Saint Louis			
			Berkshire	Los Angeles Council	San Diego			
			Binghamton	Madras	San Francisco			
			Boston	Maine	Santa Clara Valley			
			Broward	Memphis	Sao Paulo			
			Buffalo	Mexico	Schenectady			
			Calumet	Monterrey	Seattle			
			Canadian Atlantic	Miami	Sharon			
			Canton	Mid-Hudson	Shreveport			
			Central Illinois	Middle Tennessee	Singapore			
			Central Indiana	Milwaukee/Madison/ NE Wisconsin	Siouxland			
			Central Texas	Missouri Slope	Southern Alberta			
			Charlotte	Montreal	Southeastern Michigan			
			Chattanooga	Morelos	Spokane			
			Chicago	Nebraska	Syracuse			
			Chile	New Hampshire	Tri Cities			
			Cincinnati	New Orleans	Tokyo			
			Cleveland	New South Wales	Toledo			
			Columbus	NY/Long Island	Toronto			
			Connecticut	North Italy	Tucson			
			Corpus Christi	North Jersey	Tulsa			
			Dallas	Northern Canada	Twin Cities			
			Dayton	Oakland-East Bay	Uruguay			
			Delaware Bay	Oklahoma City	Vancouver			
			Denver	Orange County	Vermont			
			Denver-Western Area	Orlando	Victorian			
			Eastern No Carolina	Ottawa	Virginia Mountain			
			East Tennessee	Palm Beach	Washington/No Virginia			
			Egypt	Panama	Wichita			
			El Salvador	Peru	Winnipeg			
			Florida West Coast	Philadelphia	Worcester County			
			Fort Worth	Phoenix				
			France					
			Greece					
			R-07	Reliability	21	Albuquerque	Dallas	North Jersey
						Baltimore	Denver	Ottawa
						Binghamton	Florida West Coast	Philadelphia
						Canaveral/Daytona	Los Angeles Council	Santa Clara Valley
						Central New England Council	Mohawk Valley	Tri Cities
						Chicago	Montreal	Tokyo
						Cleveland	NY/Long Island	Washington/No Virginia
			RA-24	Robotics & Automation	1	Princeton		



SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/89

Code	Society Name	No of Chapters	Section/Council Location	Section/Council Location
SIT-30	Social Implications of Technology	6	Central New England Council Los Angeles Council	Switzerland Twin Cities Tokyo Washington/Baltimore/ No Virginia
SMC-28	Systems, Man & Cybernetics	9	Connecticut Mexico Milwaukee	North Jersey Philadelphia Schenectady Santa Clara Valley /San Francisco Tokyo Washington/No Virginia
UFFC-20	Ultrasonics, Ferroelectrics and Frequency Control Society	10	Central New England Council Dallas Long Island	Los Angeles Council Orlando Pittsburgh Portland Santa Clara Valley Tokyo Washington/Baltimore/ No Virginia
VT-06	Vehicular Technology	20	Cleveland Dallas Denver Los Angeles Council Miami Montreal NY/Long Island/ North Jersey	New Jersey Coast Orlando Philadelphia Pittsburgh Sacramento Santa Clara Valley/ Oakland-East Bay/ San Francisco Bay Southeastern Michigan Sweden Tokyo Toronto Vancouver Washington/No Virginia Winnipeg
35	Societies	758*		

\* Joint Chapters, combining two or more Sections and/or Societies are counted as one Chapter.

For Joint Chapters of more than one Section, the "managing" Section is listed first.

SECTION D

TABLE 1 - SOCIETY AFFILIATES, DECEMBER 31, 1989; 5-YEAR COMPARISON

CODE NO.	SOCIETY	12/31/89	12/31/88	12/31/87	12/31/86	12/31/85
** 1	ACOUSTICS, SPEECH & SIGNAL PROCESSING	9	7	8	11	9
2	BROADCAST TECHNOLOGY	2	2	3	1	2
3	ANTENNAS & PROPAGATION	3	3	2	1	1
4	CIRCUITS & SYSTEMS	2	5	8	10	8
5	NUCLEAR & PLASMA SCIENCES	160	170	183	190	184
6	VEHICULAR TECHNOLOGY	2	2	2	4	3
7	RELIABILITY	11	10	12	10	10
8	CONSUMER ELECTRONICS	5	5	3	4	4
9	INSTRUMENTATION & MEASUREMENT	5	2	2	3	3
10	AEROSPACE & ELECTRONIC SYSTEMS	9	7	9	8	6
12	INFORMATION THEORY	9	8	10	8	6
13	INDUSTRIAL ELECTRONICS	2	1	1	0	0
14	ENGINEERING MANAGEMENT	148	109	87	81	44
15	ELECTRON DEVICES	4	3	3	2	4
16	COMPUTER	25,115	20,712	15,495	15,116	15,629
17	MICROWAVE THEORY & TECHNIQUES	10	11	22	19	3
18	ENGINEERING IN MEDICINE & BIOLOGY	98	73	61	59	68
19	COMMUNICATIONS	271	251	211	171	206
20	ULTRASONICS, FERROELECTRICS & FREQUENCY CONTROL	5	6	7	7	6
21	COMPONENTS, HYBRIDS & MANUFACTURING TECHNOLOGY	35	30	14	14	16
22	OCEANIC ENGINEERING	12	11	15	14	17
23	CONTROL SYSTEMS	20	22	18	14	17
24	ROBOTICS AND AUTOMATION	143	278	620	945	774
25	EDUCATION	9	12	8	5	5
26	PROFESSIONAL COMMUNICATION	95	68	66	83	50
27	ELECTROMAGNETIC COMPATIBILITY	4	5	4	3	3
28	SYSTEMS, MAN & CYBERNETICS	42	43	51	33	32
29	GEOSCIENCE & REMOTE SENSING	80	69	71	41	38
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	11	8	4	5	5
31	POWER ENGINEERING	5	4	3	5	3
32	DIELECTRICS AND ELECTRICAL INSULATION	11	10	11	12	10
33	MAGNETICS	90	96	103	106	103
34	INDUSTRY APPLICATIONS	2	2	2	3	1
35	POWER ELECTRONICS	1	1	5		
36	LASERS AND ELECTRO-OPTICS	76	85	82	90	87
	TOTALS	26,506	22,131	16,586	16,133	16,483

\*\* NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90

## SECTION E

TABLE 1 - TECHNICAL INTEREST PROFILE (TIP)

12/31/89

## TIP FIRST PRIORITY BY MAJOR CATEGORIES BY REGION (1 - 10)

CODE	DESCRIPTION	01	02	03	04	05	06	07	08	09	10
01	**ACOUSTICS, SPEECH & SIGNAL PROCESSING	1,681	1,113	585	520	629	1,624	341	911	55	695
02	BROADCAST TECHNOLOGY	593	406	331	247	221	556	182	262	49	285
03	ANTENNAS AND PROPAGATION	738	728	475	221	501	1,090	162	482	30	403
04	CIRCUITS AND SYSTEMS	1,511	816	678	679	719	1,884	249	573	51	542
05	NUCLEAR AND PLASMA SCIENCES	369	321	274	158	136	637	67	127	4	118
06	VEHICULAR TECHNOLOGY	288	270	216	453	149	306	139	126	23	142
07	RELIABILITY	561	332	236	191	210	547	75	165	21	136
08	CONSUMER ELECTRONICS	486	263	286	304	179	371	146	119	37	206
09	INSTRUMENTATION AND MEASUREMENT	407	303	249	180	185	459	119	169	39	166
10	AEROSPACE AND ELECTRONIC SYSTEMS	1,877	1,941	938	372	932	2,833	234	320	19	226
12	INFORMATION THEORY	323	234	100	91	115	321	60	206	12	160
13	INDUSTRIAL ELECTRONICS	1,022	963	877	897	567	950	442	515	114	602
14	ENGINEERING MANAGEMENT	2,894	2,600	1,848	1,290	1,408	3,283	568	735	221	596
15	ELECTRON DEVICES	1,152	505	308	273	432	1,686	111	400	27	638
16	COMPUTER	7,989	4,788	3,329	3,194	3,515	9,201	1,876	3,012	411	2,993
17	MICROWAVE THEORY AND TECHNIQUES	698	337	204	124	259	1,018	100	359	15	201
18	ENGINEERING IN MEDICINE AND BIOLOGY	819	519	360	519	326	788	171	311	39	219
19	COMMUNICATIONS	3,145	2,394	1,714	1,118	1,243	2,691	972	1,274	196	1,311
20	ULTRASONICS FERROELECTRICS&FREQ. CONTROL	158	93	63	53	47	136	22	74	3	67
21	COMPONENTS, HYBRIDS & MANUFACT. TECHNOL.	679	325	236	271	240	652	68	137	23	160
22	OCEANIC ENGINEERING	61	54	35	8	12	71	18	18	4	8
23	CONTROL SYSTEMS	547	510	420	388	322	771	165	418	48	299
25	EDUCATION	306	204	184	164	128	207	83	87	19	54
26	PROFESSIONAL COMMUNICATION	268	173	125	112	107	237	59	64	11	42
27	ELECTROMAGNETIC COMPATIBILITY	198	240	102	99	113	325	27	85	9	50
28	SYSTEMS, MAN AND CYBERNETICS	319	296	165	119	110	361	75	143	15	133
29	GEOSCIENCE AND REMOTE SENSING	85	130	63	39	193	159	58	68	7	55
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	110	108	76	36	36	118	33	32	8	13
31	POWER ENGINEERING	2,798	2,577	3,366	2,407	2,324	3,335	1,171	1,076	550	1,055
32	DIELECTRICS & ELECTRICAL INSULATION	122	89	61	58	33	62	51	78	14	87
33	MAGNETICS	226	145	71	158	82	457	21	98	5	164
34	INDUSTRY APPLICATIONS	1,038	1,117	1,133	911	881	1,135	509	191	117	268
35	POWER ELECTRONICS	195	112	113	130	75	171	76	113	18	126
36	LASERS AND ELECTRO-OPTICS	765	414	296	165	270	828	130	262	20	299
37	SOLID STATE CIRCUITS	742	338	242	282	524	1,439	122	345	16	278
39	INTERDISCIPLINARY AND NEW ACTIVITIES	411	302	165	136	148	384	81	106	22	59
	TOTAL	35,581	26,060	19,924	16,367	17,371	41,093	8,783	13,461	2,272	12,856

\*\* NAME CHANGED TO SIGNAL PROCESSING (SP) SOCIETY EFFECTIVE 01/01/90.

## SECTION E

TABLE 2 - 1988 SECTION/CHAPTER MEETING SUMMARY

(94% of Sections Reporting)

REGION	# MEETINGS HELD	NUMBER BY CLASSIFICATION			ATTENDANCE				PERCENT		
		TECH.	PROF.	SOCIAL	MEMBERS	GUESTS	TOTAL	AVERAGE	TECH.	PROF.	SOCIAL
1	541	435	97	9	12,201	6,518	18,719	34.6	80.4	17.9	1.7
2	495	387	86	22	11,811	6,370	18,181	36.7	78.2	17.4	4.4
3	593	451	115	27	13,587	8,567	22,154	37.4	76.1	19.4	4.6
4	371	308	50	13	9,142	3,202	12,344	33.3	83.0	13.5	3.5
5	372	286	73	13	8,674	3,711	12,385	33.3	76.9	19.6	3.5
6	706	556	126	24	17,127	9,834	26,961	38.2	78.8	17.8	3.4
7	282	236	35	11	5,579	3,253	8,832	31.3	83.7	12.4	3.9
8	319	283	33	3	6,886	7,981	14,867	46.6	88.7	10.3	0.9
9	347	292	49	6	9,096	10,214	19,310	55.6	84.1	14.1	1.7
10	668	578	73	17	15,357	18,369	33,726	50.5	86.5	10.9	2.5
TOTAL	4,694	3,812	737	145	109,460	78,019	187,479	39.9	81.2	15.7	3.1
11	30	8	2	0	8	72	80	2.7	8	0	0
12	19	2	0	0	0	10	10	0.5	10	0	0
13	21	30	81	51	30	40	70	3.3	24	31.8	0
14	53	5	5	1	5	0	0	0.1	5	0	0
15	13	18	8	1	0	8	8	0.6	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	1	1	0	0	0	0
18	55	8	0	0	8	12	20	0.4	8	0	0
19	8	0	0	0	0	10	10	0.1	0	0	0
20	7	0	0	0	0	0	0	0	0	0	0
21	18	53	5	0	2	0	5	0.3	8	2.8	0
22	7	30	2	1	0	70	71	1.0	2	0	0
23	7	7	0	0	0	2	2	0.3	3	0	0
24	2	2	0	0	2	2	4	0.1	12	0	0
25	31	34	17	13	30	30	60	1.9	17	3.2	0
26	2	0	0	0	0	0	0	0	0	0	0
27	15	10	8	18	8	13	21	1.4	10	1.5	0
SOCIETY SECTION:	7	3	2	0	2	2	4	0.3	70	0	0

SECTION E

TABLE 2 - 1988 CHAPTER MEETING SUMMARY BY SOCIETY SECTION

## SECTION E

TABLE 3 - 1988 CHAPTER MEETINGS BY SOCIETY, BY REGION

<u>REGION:</u> <u>SOCIETY</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>TOTAL</u>
** ASSP-01	12	18	8	14	8	12	5	21	0	14	112
BT-02	3	0	0	0	0	0	0	0	0	4	7
AP-03	37	34	11	17	26	36	13	33	15	13	235
CAS-04	5	3	0	4	2	6	5	11	0	15	51
NPS-05	1	1	0	0	0	5	0	0	0	2	9
VT-06	1	26	3	1	8	10	7	3	0	3	62
R-07	19	23	2	0	5	0	2	0	0	8	59
CE-08	3	0	0	2	0	0	0	0	0	5	10
IM-09	9	4	0	0	6	10	2	0	0	9	40
AES-10	22	9	9	0	9	13	5	0	0	8	75
IT-12	6	4	0	0	6	7	4	0	0	5	32
IE-13	0	0	0	15	4	0	8	0	15	8	50
EM-14	13	18	8	4	0	9	3	0	10	0	65
ED-15	23	2	2	7	4	6	0	0	0	2	46
COMP-16	57	20	81	27	30	46	34	26	23	34	378
MTT-17	18	5	0	6	9	19	0	10	0	10	77
EMB-18	20	8	5	16	8	15	8	0	0	6	86
COM-19	12	18	20	1	9	36	5	5	21	15	142
UFFC-20	6	6	3	0	0	9	0	0	0	15	39
CHMT-21	4	0	0	0	0	14	0	0	0	10	28
OE-22	2	0	2	0	2	3	3	0	0	0	12
CS-23	11	13	4	2	0	4	0	3	6	15	58
ED-25	9	0	0	0	0	0	0	0	8	9	26
PC-26	0	6	0	0	0	0	0	2	0	0	8
EMC-27	8	11	0	8	14	34	0	0	0	8	83
SMC-28	2	0	0	0	0	0	0	0	0	8	10
GRS-29	0	7	0	0	0	1	0	0	0	7	15
SIT-30	5	6	0	0	0	13	0	6	0	12	42
PE-31	53	65	78	41	53	68	36	7	33	32	466
EI-32	0	0	0	0	0	0	8	0	0	2	10
MAG-33	7	9	0	13	0	23	0	0	0	18	70
IA-34	10	23	15	6	10	32	5	0	16	5	122
LEO-36	10	8	4	8	12	7	0	0	0	1	50
<b>TOTAL</b>	<b>388</b>	<b>347</b>	<b>255</b>	<b>192</b>	<b>225</b>	<b>438</b>	<b>153</b>	<b>127</b>	<b>147</b>	<b>303</b>	<b>2575</b>

Not All Reporting Complete.

\*\*Name Changed to Signal Processing (SP) Society Effective 01/01/90

## SECTION E

TABLE 4 - SOCIETY AND OTHER SPONSORED AND COSPONSORED CONFERENCES SUMMARY, BY SOCIETY, BY REGION 12/31/89

DIV.	SOCIETY	REGIONS										Total	
		1	2	3	4	5	6	7	8	9	10		
I	Circuits and Systems	1			2		2						5
	Components, Hybrids, and Mfg. Technology	1			1	1	3		1			1	8
	Electron Devices	5	3	1	1	1	9		2			1	23
	Lasers and Electro-Optics	1	1	2		4	2						10
	Solid-State Circuits	1											1
II	Dielectrics and Electrical Insulation		1		1					1			3
	Industry Applications		1	2	1	2	2						8
	Instrumentation and Measurement		2										2
	Power Electronics		1		2								3
III	Broadcast Technology		1										1
	Communications		4			2	2	3	1			1	13
	Consumer Electronics				1								1
IV	Vehicular Technology		1				1	1					3
	Antennas and Propagation												1
	Electromagnetic Compatability					1							1
	Magnetics		1	1									2
	Microwave Theory and Techniques						4						4
Nuclear and Plasma Sciences		1		3	1	1						6	
V/VIII	Computer	4	10	8	4	2	20	1	3		2		54
VI	Education		1										1
	Engineering Management								1				1
	Professional Communication		1										1
	Reliability			1				1					2
	Social Implications of Technology							1					1
VII	Power Engineering		1	1		1	2						5
IX	Acoustics, Speech, and Signal Processing **	2					1		1				4
	Aerospace and Electronics Systems		5			1	1		2				9
	Geoscience and Remote Sensing								1				1
	Oceanic Engineering		1				1						2
	Ultrasonics, Ferroelectrics and Freq. Control					1			1				2
X	Control Systems	1	1	2					1				5
	Engineering in Medicine and Biology	1			1		1						3
	Industrial Electronics	1	1						1		2		5
	Information Theory	1											1
	Robotics and Automation	1					2						3
	Systems, Man, and Cybernetics	11	1										3
OTHER - Not (Co)Sponsored by a Society	3	11	5	3	1	5	3	4		1		36	
Number of Conferences in Region*		26	29	22	14	16	48	8	13		5		181

\* Region numbers are not column totals. Conference counts are duplicated for each Cosponsor.

\*\* Name changed to Signal Processing (SP) Society effective 01/01/90

This table does not include those conferences in which Societies or Regions were only Participating or Cooperating.

## SECTION F

TABLE 1 - ORGANIZATIONAL UNITS OF THE IEEE, BY REGION - As of December 31, 1989

<u>REGION</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
<b>1989</b>											
Sections	22	25	45	25	22	36	20	28	21	28	272
Subsections	6	4	7	6	6	4	--	3	5	3	44
Chapters	120	98	80	55	62	110	59	55	45	74	758*
Councils	2	1	5	--	--	2	3	--	3	3	19
Student Branches	95	59	78	58	65	63	48	55	62	86	669
Student Branch Chapters	26	15	25	21	16	16	11	4	7	26	167
<b>1988</b>											
Sections	22	25	45	25	22	36	20	27	18	28	268
Subsections	6	4	8	6	6	6	--	3	6	3	48
Chapters	126	103	82	65	64	115	56	45	35	63	754*
Councils	2	1	5	--	--	2	3	--	3	3	19
Student Branches	93	57	74	57	63	60	47	46	48	69	614
Student Branch Chapters	25	12	25	20	15	16	10	4	6	22	155
<b>1987</b>											
Sections	22	25	46	25	22	36	20	26	19	26	267
Subsections	6	4	8	6	6	5	--	2	7	2	46
Chapters	142	111	80	68	68	116	60	44	35	63	787*
Councils	2	1	5	--	--	2	3	--	3	3	19
Student Branches	93	54	70	56	60	57	47	43	42	56	578
Student Branch Chapters	23	10	24	20	14	16	10	4	6	21	148

\* Joint Chapters of two or more Sections and/or two or more Societies are counted as one Chapter.



SECTION F

Table - 2 IEEE COUNCIL, SECTION AND SUBSECTION ACTIONS 1989

REGION 3

The Jackson Subsection of the Memphis Section dissolved on June 2, 1989.

The Pensacola Section changed its name to the Northwest Florida Section on June 2, 1989.

REGION 6

The Eugene Subsection of the Portland Section dissolved on November 17, 1989.

REGION 8

The Turkey Section was established on August 18, 1989.

REGION 9

The Morelos Subsection was elevated to Section status on February 20, 1989.

The Uruguay Section was established on June 2, 1989.

The Western Puerto Rico Section was established on August 18, 1989.



## SECTION F

TABLE 3 - IEEE CHAPTER CHANGES IN 1989

<u>Region/Sections</u>	<u>New Chapters</u>	<u>Chapters Dissolved</u>	<u>Change in Status of Existing Chapters</u>
<u>REGION 1</u>			
Ithaca	MTT-17		
CNEC		VT-06	
CNEC		SMC-28	
CNEC		CS-23	
Connecticut		R-07	
Connecticut		EMB-18	
Long Island		AES-10	
Long Island		IT-12 Jt. NY	
Long Island		CS-23/SMC-28 Jt. NY	
Mohawk Valley	LEO-36		
New Hampshire	MTT-17		
New Jersey Coast			CAS-04 ** CS-23
New York		ED-15	
New York		CHMT-21	
Princeton	LEO-36		
Princeton	RA-24		
Providence	PE-31		
Rochester	#ASSP-01		
Rochester	EM-14		
Schenectady		#ASSP-01/IT-12/COMM-19	
Syracuse		IT-12	
Syracuse		AES-10/COMM-19	
<u>REGION 2</u>			
Baltimore		AES-10	
Baltimore		EMC-27	
Canton		CAS-04/VT-06/C-16/COMM-19	
Cleveland		#ASSP-01/BT-02/CE-08	
Cleveland		CAS-04/CS-23/SMC-28	
Cleveland		AES-10	
Columbus	#ASSP-01		
Columbus	EMB-18		
Dayton	COMM-19		
Philadelphia	VT-06		***IT-12/COMM-19
Philadelphia	MAG-33		
Pittsburgh		SIT-30	
Pittsburgh		EMB-18	
Washington	PC-26(Jt. Wa./No. Va.)		
Washington		IA-34 Jt. No. VA	
<u>REGION 3</u>			
Broward		EM-14	
Eastern North Carolina		IT-12/COMM-19 Jt. CNC/WS	
Memphis			PE-31*IA-34
Nashville		EMB-18	
Nashville		PE-31	
Orlando	LEO-36		
Virginia Mountain	ED-15/MTT-17		
Virginia Mountain		IE-13/C-16/CS-23	
<u>REGION 4</u>			
Central Indiana		C-16	
Chicago		BT-02	
Chicago		NPS-05	
Chicago		VT-06	
Chicago		IM-09	
Chicago		CS-23	
Fort Wayne		C-16	
Milwaukee		EM-14	
Milwaukee			ED-15/MTT-17 *AP-03/IM-09
Twin Cities		R-07	
Twin Cities		SIT-30	
<u>REGION 5</u>			
Beaumont		PE-31	
Dallas		CS-23	
Dallas	R-07		
Dallas	UFFC-20		
Denver		EM-14	
Denver		CS-23	
Kansas City	COMM-19		
Saint Louis		IA-34	

<u>Region/Sections</u>	<u>New Chapters</u>	<u>Chapters Dissolved</u>	<u>Change in Status of Existing Chapters</u>
<b>REGION 6</b>			
Albuquerque	R-07		
Buenaventura		AP-03	
Los Angeles Council		SMC-28	
Los Angeles Council		BT-02	
Oakland-East Bay		#ASSP-01	
Orange County	AES-10		AP-03/ED-15/MTT-17
Phoenix			****EMC-27
Phoenix	CHMT-21		
Portland	EM-14		
Portland		SIT-30	
Sacramento		EMB-18	
San Gabriel Valley		EMC-27	
Seattle	CAS-04		
Utah		AP-03/ED-15/MTT-17	
Utah		PE-31	
<b>REGION 7</b>			
Canadian Atlantic	PE-31/IA-34		
Hamilton		E-25	
Ottawa	EMC-27		***AP-03/MTT-17
Ottawa	LEO-36		
South Saskatchewan	C-16		
Toronto		BT-02	
Winnipeg	EM-14/E-25/PC-26		
<b>REGION 8</b>			
Benelux	IT-12		
Finland			*AP-03/MTT-17
Finland	C-16		
Finland	#ASSP-01/CAS-04		
France	EMC-27		
Germany	CAS-04		
North Italy	AP-03/CAS-04/ ED-15/MTT-17		
North Italy	IE-13/PEL-35		
Yugoslavia	MTT-17		
Yugoslavia	COMM-19		
<b>REGION 9</b>			
Argentina	COMM-19		
Bahia	PE-31/IA-34		
El Salvador	EM-14		
El Salvador	PE-31		
El Salvador	IA-34		
Guatemala	PE-31		
Morelos	PE-31		
Sao Paulo	MTT-17		
Sao Paulo	EMB-18/CS-23		
Uruguay	IM-09/PE-31		
<b>REGION 10</b>			
Bangalore		IA-34 Jt. Bombay	
Bangalore		IE-13/CS-23	
Beijing	CAS-04		
Indonesia	BT-02/AP-03/AES-10/ MTT-17/COMM-19		
Kerala	IE-13/IA-34		
Kharagpur	C-16		
Korea	CAS-04		
Korea	ED-15		
Korea	#ASSP-01		
Korea	MTT-17		
New South Wales			SP-01*COMM-19
New South Wales	AP-03/MTT-17		
Singapore	CAS-04		
Taipei	CS-23		

- \* Existing chapter expanded to include.  
 \*\* Existing joint chapter changed to a single chapter.  
 \*\*\* Existing joint chapter changed to a single and a joint chapter.  
 \*\*\*\* Two existing chapters became one joint chapter.

# Name changed to Signal Processing (SP) Society effective 01/01/90.

SECTION F

TABLE 4 - STUDENT BRANCH CHANGES 1989 Formations

Region	Chapter	Code	Region
<b>Region 1</b>	Alfred University	AL-01	Region 1
	University of Southern Maine	USM-01	Region 1
<b>Region 2</b>	Muskingum Area Technical College	MATC-02	Region 2
	Pennsylvania State University-Behrend College	PSU-02	Region 2
<b>Region 3</b>	Alabama A & M University	AAMU-03	Region 3
	Mercer University	MERC-03	Region 3
	Southwest Virginia Community College	SVCC-03	Region 3
	College of Arts, Science and Technology	CASAT-03	Region 3
<b>Region 4</b>	Dordt College	DC-04	Region 4
<b>Region 5</b>	University of Texas-Dallas	UTD-05	Region 5
<b>Region 6</b>	West Coast University	WCU-06	Region 6
	Weber State College	WSC-06	Region 6
	University of San Diego-Alcala Park	USD-06	Region 6
<b>Region 7</b>	Universite de Sherbrooke	US-07	Region 7
<b>Region 8</b>	State University of Ghent	SG-08	Region 8
	Escuela Tecnica Superior de Ingenieros de	ETSI-08	Region 8
	Universidad de Aveiro	UA-08	Region 8
	Universita Degli Studi di Pavia	USP-08	Region 8
	University of Karlsruhe	UK-08	Region 8
	Universitat Passau	UP-08	Region 8
	Fachhochschule fur Technik Esslingen	FTE-08	Region 8
	Ruhr Universitat Bochum	RUB-08	Region 8
<b>Region 9</b>	Universidad de las Americas	ULA-09	Region 9
	Universidad Austral de Chile	UACh-09	Region 9
	Universidad de Magallanes	UM-09	Region 9
	Instituto Tecnologico de Ciudad Madero	ITCM-09	Region 9
	Universidade de Brasilia	UB-09	Region 9
	Universidad del Valle de Guatemala	UV-09	Region 9
	Centro Nacional de Investigacion y Desarrollo	CNIC-09	Region 9
	Universidad Nacional Mayor de San Marcos	UNMSM-09	Region 9
	Universidad de la Republica	UR-09	Region 9
	Instituto Tecnologico de Morelia	ITM-09	Region 9
	Universidad Politecnica de Puerto Rico	UPR-09	Region 9
	Universidad Simon Bolivar	USB-09	Region 9
	Universidad Santo Tomas	UST-09	Region 9
	Universidad de Concepcion	UC-09	Region 9
<b>Region 10</b>	Mar Athanasius College of Engineering	MACOE-10	Region 10
	Adhiparasakthi Engineering College	APEC-10	Region 10
	Arulmigu Kalasalingam College of Engineering	AKCE-10	Region 10
	Bangalore Institute of Technology	BIT-10	Region 10
	Kongu Engineering College	KEC-10	Region 10
	Government College of Engineering	GCE-10	Region 10
	University Visvesvaraya College of Engineering	UVCE-10	Region 10
	Andhra University	AU-10	Region 10
	King Mongkut's Institute of Technology	KMIT-10	Region 10
	Gandhi Institute of Technology and Management	GITM-10	Region 10
	University of Roorkee	UR-10	Region 10
	Pune Institute of Computer Technology	PICT-10	Region 10
	Vinayaka Mission's Kirupananda Variyar	VKM-10	Region 10
	Madan Mohan Malvna Engineering College,	MMMEC-10	Region 10
	Mookambigai College of Engineering,	MCE-10	Region 10
	V.E.S. Institute of Technology	VESIT-10	Region 10
	KSRM College of Engineering	KSRMCE-10	Region 10

## SECTION G

TABLE 1 - IEEE TECHNICAL PERIODICAL PUBLICATIONS OUTPUT - 1989 (Dist. Data as of 9/30/89)

Member ist.	Non-M Dist.	Total Dist.	Periodicals	Freq.	Total Pages	Edit. Pages	Adv. Pages
<u>INSTITUTE-WIDE PUBLICATIONS</u>							
297880	4323	302203	SPECTRUM	12	1398	626.42	771.58
30678	3635	34313	PROCEEDINGS	12	2120	2084.00	36.00
2471	3637	6108	POTENTIALS	4	218	218.00	
<u>TRANSACTIONS &amp; JOURNALS</u>							
13892	2192	16084	ACOUSTICS, SPEECH, & SIGNAL PROCESSING	6	2248		
8829	1170	9999	AEROSPACE & ELECTRONIC SYSTEMS	6	952		
7431	1990	9421	ANTENNAS & PROPAGATION	12	1712		
9701	2331	12032	AUTOMATIC CONTROL	12	1392		
3876	1768	5644	BIOMEDICAL ENGINEERING	12	1308		
2353	1239	3592	BROADCASTING	4	336		
8795	2062	10857	CIRCUITS & SYSTEMS	12	1560		
11528	2677	14205	COMMUNICATIONS	12	1472		
4233	1509	5742	COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY	4	852		
5259	1526	6785	COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS & SYSTEMS	4	1506		
12365	3083	15448	COMPUTERS	12	1804		
5189	1491	6680	CONSUMER ELECTRONICS	4	1012		
2818	1293	4111	EDUCATION	4	608		
1992	1382	3374	ELECTRICAL INSULATION	6	1240		
3487	1532	5019	ELECTROMAGNETIC COMPATIBILITY	4	452		
10354	1379	11733	ELECTRON DEVICE LETTERS	12	660		
7080	2152	9232	ELECTRON DEVICES	12	3072		
3146	1692	4838	ENERGY CONVERSION	4	720		
8429	1509	9938	ENGINEERING MANAGEMENT	4	348		
8590	1148	9738	ENGINEERING MANAGEMENT REVIEW	4	424		
2234	1401	3635	GEOSCIENCE & REMOTE SENSING	6	828		
6257	1675	7932	INDUSTRIAL ELECTRONICS	4	616		
9916	1837	11753	INDUSTRY APPLICATIONS	6	1384		
5260	1971	7231	INFORMATION THEORY	6	1232		
5077	2017	7094	INSTRUMENTATION & MEASUREMENT	4	1048		
5980	1098	7078	KNOWLEDGE & DATA ENGINEERING	4	388		
3201	1508	4709	LIGHTWAVE TECHNOLOGY	12	2088		
3467	1835	5302	MAGNETICS	6	4588		
1595	1178	2773	MEDICAL IMAGING	4	428		
10303	2075	12378	MICROWAVE THEORY & TECHNIQUES	12	2392		
2168	1651	3819	NUCLEAR SCIENCE	6	2540		
1849	1185	3034	OCEANIC ENGINEERING	4	432		
6941	1938	8879	PATTERN ANALYSIS & MACHINE INTELLIGENCE	6	1402		
6617	1017	7634	PHOTONICS TECHNOLOGY LETTERS	12	538		
1082	1230	2312	PLASMA SCIENCE	6	948		
3937	1781	5718	POWER DELIVERY	4	2298		
4240	1358	5598	POWER ELECTRONICS	4	528		
4607	1897	6504	POWER SYSTEMS	4	1586		
2490	1305	3795	PROFESSIONAL COMMUNICATION	4	340		
4170	1907	6077	QUANTUM ELECTRONICS	12	2984		
3941	1933	5874	*RELIABILITY	5	876		
6069	1418	7487	ROBOTICS & AUTOMATION	4	860		
7789	1617	9406	SELECTED AREAS IN COMMUNICATIONS	9	1520		
18845	1096	19941	SEMICONDUCTOR MANUFACTURING	4	204		
14748	2928	17676	SOFTWARE ENGINEERING	12	1704		
6581	2036	8617	SOLID-STATE CIRCUITS	6	1820		
4336	1942	6278	SYSTEMS, MAN & CYBERNETICS	6	2016		
1814	1374	3188	ULTRASONICS, FERROELECTRICS & FREQUENCY CONTROL	6	800		
2667	1293	3960	VEHICULAR TECHNOLOGY	4	276		
297528	82626	380154	Total TRANSACTIONS & JOURNALS		62342		

\*Estimated. Not all issues published at time of this report.  
Translation Journal of Magnetism not included.

SECTION G

TABLE 1 - (Continued)

Member Dist.	Non-M Dist.	Total Dist.	Periodicals	Freq.	Total Pages	Edit. Pages	Adv. Pages
<u>MAGAZINES</u>							
9086	1077	10163	AEROSPACE & ELECTRONIC SYSTEMS MAGAZINE	12	686	686	
14107	1180	15287	ASSP MAGAZINE	4	156	156.00	
34981	1317	36298	CIRCUITS & DEVICES MAGAZINE	6	472	472.00	
27303	1821	29124	COMMUNICATIONS MAGAZINE	12	952	725.00	227.00
96876	3365	100241	COMPUTER	12	1666	1294.66	371.34
22894	1084	23978	COMPUTER APPLICATIONS IN POWER	4	522	489.67	32.33
12691	2475	15166	COMPUTER GRAPHICS & APPLICATIONS	6	645	609.81	35.19
9804	1253	11057	CONTROL SYSTEMS MAGAZINE	4	494	488.00	6.00
6373	1424	7797	DESIGN & TEST OF COMPUTERS	6	485	445.50	39.50
2071	1090	3161	ELECTRICAL INSULATION MAGAZINE	6	464	464.00	
6729	1118	7847	ENGINEERING IN MEDICINE & BIOLOGY	4	354	354.00	
14859	1978	16837	EXPERT MAGAZINE	4	386	336.59	49.41
16253	1962	18215	MICRO	6	620	608.33	11.67
8233	1689	9922	NETWORK MAGAZINE	6	324	269.00	55.00
21880	1171	23051	POWER ENGINEERING REVIEW	12	901	901.00	
25786	2108	27894	SOFTWARE MAGAZINE	6	736	609.92	126.08
2420	1091	3511	TECHNOLOGY & SOCIETY MAGAZINE	4	137	137.00	
332346	27203	359549	Total MAGAZINES		10000	9046.48	953.52

\*Estimated. Not all issues published at time of this report.  
Translation Journal of Magnetism not included.

TABLE 2 - 1989 IEEE NONSERIAL PUBLICATIONS OUTPUT

	Number of Items	Total Pages		Number of Items	Total Pages
Conference Records	120	80341	Preprints	573	3969
IEEE PRESS Books	6	2152	Standards	62	7789

1989 EDUCATIONAL ACTIVITIES STATISTICS

## ACCREDITATION

	<u>ABET</u>	<u>CSAB</u>
Program reviewed	137	20
Institutions visited	114	20
Evaluators Trained	56	14

## INDIVIDUAL LEARNING ACTIVITIES

Individual Learning Program		
In production		7
Products available		12
Units sold		606
Home Video Tutorials		
In production		9
Products available		49
Units sold		6259
Personal Development Products		
Products available		24
Units sold		1042

## VIDEOCONFERENCES

Chip to System Testability Access (March)		
Sites		152
Attendance		3040
Robotics (April)		
Sites		115
Attendance		2300
Concurrent Engineering of Both Product & Processes (May)		
Sites		107
Attendance		2140
Neural Networks (September)		
Sites		147
Attendance		2940
RISC (October)		
Sites		105
Attendance		2100
Machine Vision (November)		
Sites		125
Attendance		2500
	Total Attendance	15,020

