

# **ANNUAL REPORT OF THE SECRETARY**

1990



**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.  
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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 1990 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,

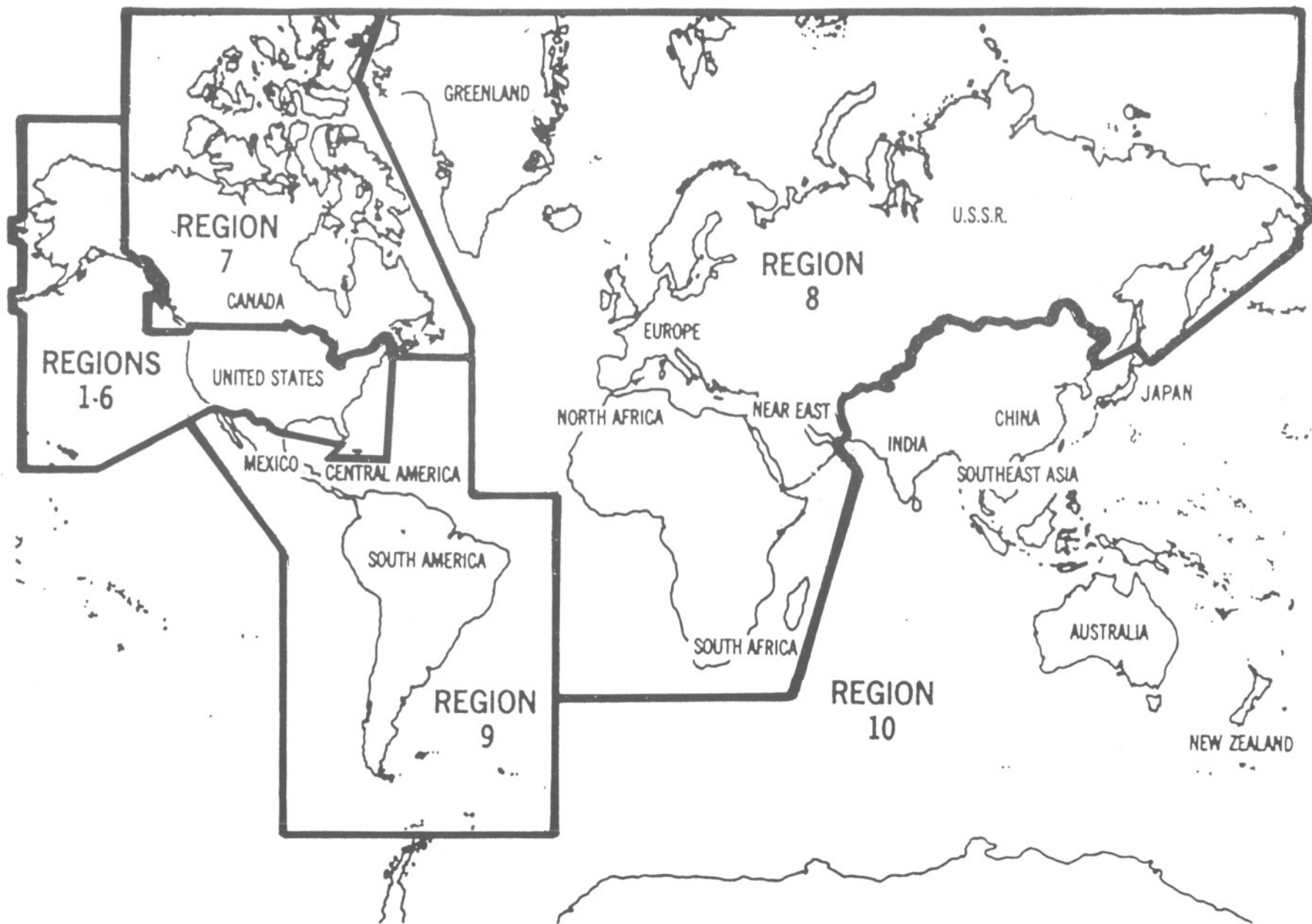
*Fumio Harashima*  
Fumio Harashima  
Secretary, 1990

February 1991

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, 1963-90 .....	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 .....	41
Table 2	Society Membership, by Division, by Society, by Grade; 3 Year Comparison .....	42
Table 3	Society Membership, by Region, by Section, by Society .....	43
Table 4	Number of Society Memberships Held by IEEE Members, by Region, by Section .....	49
Table 5	Chapters, by Society, by Section .....	55
SECTION D - SOCIETY AFFILIATES STATISTICS		
Table 1	Society Affiliates by Society; 5 Year Comparison .....	63
SECTION E - MEMBER TECHNICAL INTEREST AND IEEE MEETING/CONFERENCE ACTIVITY		
Table 1	Member Technical Interest Profile .....	64
Table 2	Section and Chapter Meetings Summary - 1989 .....	65
Table 3	Chapter Meetings by Society, by Region - 1989 .....	66
Table 4	IEEE Sponsored and Cosponsored Conferences Summary by Society, by Region - 1990 .....	67
SECTION F - ORGANIZATION STATISTICS		
Table 1	Organizational Units of the IEEE, by Region .....	68
Table 2	Council, Section and Subsection Actions .....	69
Table 3	Chapter Changes .....	70
Table 4	Student Branch Changes .....	72
SECTION G - PUBLICATIONS STATISTICS		
Table 1	IEEE Periodical Publications Output .....	73
Table 2	IEEE Nonserial Publications Output .....	74
SECTION H - EDUCATIONAL ACTIVITIES STATISTICS .....		
		75
SECTION I - STANDARDS ACTIVITIES STATISTICS .....		
		76





## SECTION A

TABLE 1 - IEEE MEMBERSHIP BY REGION AND GRADE  
DECEMBER 31, 1990

	H	F	SM	M	VOTING MEMBERS	A	HIGHER GRADE SUBTOTAL	S	TOTAL MEMBERSHIP	% OF TOTAL
REGION 1	3	1,061	4,685	35,951	41,700	4,946	46,646	5,719	52,365	16.4
REGION 2	1	625	3,676	26,979	31,281	3,018	34,299	4,747	39,046	12.2
REGION 3		416	3,215	22,599	26,230	2,333	28,563	5,547	34,110	10.7
REGION 4	1	285	1,992	18,753	21,031	2,005	23,036	5,452	28,488	8.9
REGION 5	1	242	2,102	20,657	23,002	1,853	24,855	4,607	29,462	9.2
REGION 6	5	823	4,937	43,720	49,485	4,582	54,067	5,954	60,021	18.8
REG 1-6 SUBTOTAL	11	3,452	20,607	168,659	192,729	18,737	211,466	32,026	243,492	76.2
REGION 7		133	928	10,140	11,201	1,651	12,852	3,715	16,567	5.2
REGION 8	1	298	1,614	15,424	17,337	2,480	19,817	4,701	24,518	7.7
REGION 9		13	344	3,729	4,086	469	4,555	4,069	8,624	2.7
REGION 10	2	239	1,447	16,466	18,154	1,680	19,834	6,192	26,026	8.2
REG 7-10 SUBTOTAL	3	683	4,333	45,759	50,778	6,280	57,058	18,677	75,735	23.8
TOTAL	14	4,135	24,940	214,418	243,507	25,017	268,524	50,703	319,227	100.0
PERCENTAGE		1.3	7.8	67.2	76.3	7.8	84.1	15.9	100.0	

TABLE 2 - IEEE MEMBERSHIP BY REGION - 3 YEAR COMPARISON, 1988-1990

	DECEMBER 31, 1990		DECEMBER 31, 1989		DECEMBER 31, 1988	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
REGION 1	52,365	16.4	53,227	17.0	53,399	17.5
REGION 2	39,046	12.2	38,990	12.5	38,657	12.7
REGION 3	34,110	10.7	33,457	10.7	32,512	10.7
REGION 4	28,488	8.9	28,569	9.1	28,388	9.3
REGION 5	29,462	9.2	28,840	9.2	28,166	9.3
REGION 6	60,021	18.8	59,452	19.0	58,428	19.3
REG 1-6 SUBTOTAL	243,492	76.2	242,535	77.5	239,550	78.8
REGION 7	16,567	5.2	16,301	5.2	15,669	5.1
REGION 8	24,518	7.7	22,408	7.2	20,178	6.6
REGION 9	8,624	2.7	7,667	2.5	6,846	2.2
REGION 10	26,026	8.2	23,780	7.6	22,108	7.3
REG 7-10 SUBTOTAL	75,735	23.8	70,156	22.5	64,801	21.2
TOTAL	319,227	100.0	312,691	100.0	304,351	100.0

## SECTION A

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

	DEC. 31, 1990	DEC. 31, 1989	DEC. 31, 1988
FELLOW	1,882	1,810	1,771
SENIOR MEMBER	8,705	8,129	7,596
MEMBER	8,402	7,431	6,469
ASSOCIATE	744	670	593
TOTAL	19,733	18,040	16,429

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

	DEC. 31, 1990	DEC. 31, 1989	DEC. 31, 1988
FELLOW	18	14	13
SENIOR MEMBER	202	168	150
MEMBER	10,399	10,141	9,666
ASSOCIATE	1,540	1,420	1,191
STUDENT	5,734	5,857	6,142
TOTAL	17,893	17,600	17,162

TABLE 5 - IEEE MEMBERSHIP BY GRADE, 1963 - 1990

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
1990	14	4,135	24,940	214,418	243,507	25,017	268,524	50,703	319,227

## SECTION A

TABLE 6 - IEEE MEMBERSHIP CHANGES, BY GRADE, DURING CALENDAR YEAR 1990, 3-YEAR COMPARISON

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>HIGHER GRADE SUBTOTAL</u>	<u>S</u>	<u>TOTAL</u>
ACTIVE MEMBERSHIP 12/31/89	14	3,989	24,084	209,342	23,249	260,678	52,013	312,691
ADDITIONS								
ELECTIONS		1	246	16,340	841	17,428	28,625	46,053
DUES ARREARS PAID		130	1,131	20,238	3,002	24,501	4,592	29,093
REINSTATEMENTS		2	64	1,701	236	2,003	542	2,545
TRANSFERS TO		<u>362</u>	<u>2,230</u>	<u>29,583</u>	<u>6,317</u>	<u>38,492</u>	<u>3,933</u>	<u>42,425</u>
TOTAL ADDITIONS	<u>0</u>	<u>495</u>	<u>3,671</u>	<u>67,862</u>	<u>10,396</u>	<u>82,424</u>	<u>37,692</u>	<u>120,116</u>
DELETIONS								
RESIGNATIONS		3	61	739	144	947	67	1,014
DECEASED		75	197	249	48	569	3	572
DUES ARREARS		139	1,495	46,266	7,766	55,666	13,887	69,553
TRANSFERS FROM		<u>132</u>	<u>1,062</u>	<u>15,516</u>	<u>670</u>	<u>17,380</u>	<u>25,045</u>	<u>42,425</u>
TOTAL DELETIONS	<u>0</u>	<u>349</u>	<u>2,815</u>	<u>62,770</u>	<u>8,628</u>	<u>74,562</u>	<u>39,002</u>	<u>113,564</u>
ACTIVE MEMBERSHIP 12/31/90	14	4,135	24,940	214,418	25,017	268,524	50,703	319,227
GAIN/LOSS	0	+146	+856	+5,076	+1,768	+7,846	-1,310	+6,552
NET ARREARS	0	13	396	24,639	4,785	29,833	10,550	40,383

5

	<u>DECEMBER 31, 1990</u>	<u>DECEMBER 31, 1989</u>	<u>DECEMBER 31, 1988</u>
ADDITIONS			
ELECTIONS	46,053	44,458	45,881
REINSTATEMENTS	2,545	2,974	2,041
DUES ARREARS PAID	<u>29,093</u>	<u>24,525</u>	<u>25,016</u>
TOTAL ADDITIONS	77,691	71,957	72,938
DELETIONS			
RESIGNATIONS	1,014	1,070	344
DECEASED	572	677	589
DUES ARREARS	<u>69,553</u>	<u>61,870</u>	<u>60,783</u>
TOTAL DELETIONS	71,139	63,617	61,716
NET GAIN/LOSS	+6,552	+8,340	+11,222



## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 1

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS							SUBTOTAL	S		
01	00	01	BERKSHIRE		15	61	137	12	225	10		235
01	00	03	BINGHAMTON		6	77	535	80	698	87		785
01	01	05	BOSTON (CNEC)	2	215	877	7735	938	9767	1015		10782
01	01	05 03	MERRIMACK VALLEY (CNEC)		(21)	(137)	(1559)	(184)	(1901)	(127)	(2028)	
01	01	05 01	NORTHSHORE (CNEC)		(7)	(37)	(331)	(30)	(405)	(27)	(432)	
01	00	07	BUFFALO		8	99	659	86	852	279		1131
01	00	09	CONNECTICUT		48	365	2934	443	3790	396		4186
01	00	09 05	DANBURY		(5)	(91)	(814)	(109)	(1019)	(45)	(1064)	
01	00	09 03	NEW LONDON		(8)	(32)	(374)	(39)	(453)	(56)	(509)	
01	00	13	ITHACA		24	24	170	20	238	133		371
01	03	15	LONG ISLAND (METSAC)		71	400	2943	426	3840	233		4073
01	01	17	MAINE (CNEC)		5	56	398	39	498	91		589
01	00	19	MID-HUDSON		23	123	1079	122	1347	95		1442
01	00	21	MOHAWK VALLEY		13	74	447	34	568	100		668
01	00	21 01	ST. LAWRENCE INT'L		(4)	(12)	(79)	(9)	(104)	(54)	(158)	
01	01	23	NEW HAMPSHIRE (CNEC)		17	138	1327	172	1654	110		1764
01	00	45	NEW JERSEY COAST		101	336	2201	213	2851	125		2976
01	03	25	NEW YORK (METSAC)		110	511	4198	942	5761	923		6684
01	03	25 03	WESTCHESTER		(67)	(228)	(1469)	(228)	(1992)	(83)	(2075)	
01	03	27	NORTH JERSEY (METSAC)	1	136	550	3946	576	5209	487		5696
01	03	29	PRINCETON (METSAC)		84	263	2084	255	2686	359		3045
01	01	31	PROVIDENCE (CNEC)		22	104	1139	105	1370	212		1582
01	00	33	ROCHESTER		14	109	1089	142	1354	272		1626
01	00	35	SCHENECTADY		95	241	770	78	1184	255		1439
01	00	37	SPRINGFIELD		13	35	295	31	374	185		559
01	00	39	SYRACUSE		23	123	653	72	871	130		1001
01	00	41	VERMONT		7	47	413	63	530	72		602
01	01	43	WORCESTER COUNTY (CNEC)		11	72	799	97	979	150		1129
<u>REGION 1 TOTALS</u>				3	1061	4685	35951	4946	46646	5719		52365
<u>COUNCIL TOTALS</u>												
01	01		CENTRAL NE COUNCIL (CNEC)	2	270	1247	11398	1351	14268	1578		15846
01	03		METRO SEC ADV COUNCIL (METSAC)	1	401	1724	13171	2199	17496	2002		19498

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 2

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
02 00 01	AKRON		4	56	429	38	527	104		631
02 00 21	ALLEGHENY MOUNTAIN		1	8	48	10	67	6		73
02 00 03	BALTIMORE		39	376	3399	307	4121	310		4431
02 00 03 01	ANNAPOLIS		(9)	(97)	(978)	(76)	(1160)	(63)	(1223)	
02 00 05	CANTON		1	20	158	15	194	52		246
02 00 07	CENTRAL PENNSYLVANIA		13	63	288	20	384	403		787
02 00 09	CINCINNATI		11	67	730	75	883	117		1000
02 00 11	CLEVELAND		23	172	1267	122	1584	252		1836
02 00 13	COLUMBUS		26	161	1008	220	1415	475		1890
02 00 13 05	ZANESVILLE			(4)	(13)	(9)	(26)	(9)	(35)	
02 00 15	DAYTON		14	137	1150	118	1419	186		1605
02 00 17	DELAWARE BAY		7	58	381	49	495	55		550
02 00 47	EASTERN SHORE		4	22	122	21	169	7		176
02 00 23	ERIE		3	42	141	19	205	47		252
02 00 25	JOHNSTOWN		1	17	113	20	151	44		195
02 00 27	LEHIGH VALLEY		33	161	1131	143	1468	262		1730
02 00 29	LIMA		3	20	86	11	120	41		161
02 00 31	NORTH CENTRAL OHIO			12	48	11	71	14		85
02 01 49	NORTHERN VIRGINIA (NCAC)		63	487	4564	503	5617	338		5955
02 00 33	OHIO VALLEY		1	5	72	7	85	9		94
02 00 35	PHILADELPHIA			121	613	4336	452	5522	632	6154
02 00 37	PITTSBURGH	1	73	355	1807	190	2426	503		2929
02 00 37 01	UPPER MONONGAHELA		(1)	(18)	(83)	(18)	(120)	(60)	(180)	
02 00 39	SHARON		2	26	145	18	191	68		259
02 00 41	SOUTHERN NEW JERSEY		2	28	162	15	207	17		224
02 00 43	SUSQUEHANNA		9	66	533	96	704	79		783
02 01 19	WASHINGTON (NCAC)		169	692	4736	523	6120	691		6811
02 01 19 01	WESTERN MARYLAND (NCAC)		(1)	(12)	(184)	(31)	(228)	(8)	(236)	
02 00 45	WEST VIRGINIA		2	12	125	15	154	35		189
	<u>REGION 2 TOTALS</u>	1	625	3676	26979	3018	34299	4747		39046
	<u>COUNCIL TOTALS</u>									
02 01	NATL CAPITOL AREA COUNCIL (NCAC)		232	1179	9300	1026	11737	1029		12766

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## 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		11	183	849	61	1104	265		1369
03	00	01 01	MONTGOMERY		(6)	(29)	(231)	(15)	(281)	(125)	(406)	
03	00	03	ATLANTA		38	306	2487	381	3212	899		4111
03	00	03 05	ATHENS			(10)	(47)	(1)	(58)	(2)	(60)	
03	00	03 01	ROME		(1)	(15)	(75)	(9)	(100)	(13)	(113)	
03	00	05	BATON ROUGE		2	24	276	14	316	76		392
03	05	89	BROWARD (FC)		15	58	602	87	762	34		796
03	05	07	CANAVERAL (FC)		2	28	263	26	319	17		336
03	00	93	CENTRAL GEORGIA		1	16	255	20	292	52		344
03	01	67	CENTRAL NORTH CAROLINA (NCC)		3	25	232	42	302	68		370
03	03	81	CENTRAL SAVANNAH RIVER (SCC)			12	247	21	280	11		291
03	09	09	CENTRAL VIRGINIA (VC)		22	82	406	35	545	111		656
03	01	69	CHARLOTTE (NCC)		7	125	582	94	808	121		929
03	07	11	CHATTANOOGA (TC)		3	82	253	27	365	41		406
03	03	83	COASTAL SOUTH CAROLINA (SCC)		10	48	290	34	382	50		432
03	03	85	COLUMBIA (SCC)		2	43	323	31	399	130		529
03	05	77	DAYTONA (FC)		4	38	179	18	239	6		245
03	07	13	EAST TENNESSEE (TC)		12	102	516	52	682	194		876
03	01	71	EASTERN NORTH CAROLINA (NCC)		36	196	1881	200	2313	566		2879
03	01	71 01	LOWER CAPE FEAR (NCC)			(14)	(70)	(8)	(92)	(10)	(102)	
03	00	15	EVANSVILLE-OWENSBORO			25	274	19	318	97		415
03	00	15 01	PADUCAH			(6)	(50)	(3)	(59)	(24)	(83)	
03	05	17	FLORIDA WEST COAST (FC)		72	363	1497	165	2097	218		2315
03	05	21	GAINESVILLE (FC)		19	43	248	17	327	145		472
03	09	23	HAMPTON ROADS (VC)		4	64	743	46	857	152		1009
03	00	25	HUNTSVILLE		5	84	1307	94	1490	147		1637
03	05	27	JACKSONVILLE (FC)			48	254	29	331	39		370
03	00	97	JAMAICA			7	89	22	118	12		130
03	00	29	LEXINGTON		3	20	310	15	348	50		398
03	00	31	LOUISVILLE		2	45	324	21	392	176		568
03	07	33	MEMPHIS (TC)		1	38	339	57	435	168		603
03	05	35	MIAMI (FC)		18	107	715	79	919	170		1089
03	07	37	MIDDLE TENNESSEE (TC)			26	73	4	103	10		113
03	00	39	MISSISSIPPI		3	34	360	27	424	100		524
03	00	39 01	NE MISSISSIPPI		(1)	(13)	(84)	(4)	(102)	(82)	(184)	

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 3 (cont'd)

<u>GEO CODE</u>				<u>SECTION/SUBSECTION</u>					<u>HIGHER GRADE</u>		<u>SUBSECTION</u>	<u>SECTION</u>
<u>R</u>	<u>C</u>	<u>S</u>	<u>SS</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>SUBTOTAL</u>	<u>S</u>	<u>TOTAL</u>	<u>TOTAL</u>
03	00	41				20	182	11	213	62		275
03	07	43			10	64	401	31	506	204		710
03	00	45			1	96	621	52	770	114		884
03	05	57				30	344	17	391	31		422
03	07	49			6	30	156	11	203	18		221
03	05	51			16	139	941	87	1183	144		1327
03	05	53			24	127	899	107	1157	62		1219
03	03	87			7	59	413	39	518	159		677
03	09	59			7	66	565	61	699	25		724
03	00	61			5	9	74	7	95	13		108
03	05	95			11	87	787	43	928	175		1103
03	05	55			5	23	237	15	280	89		369
03	07	91			1	21	183	32	237	23		260
03	09	65			15	97	338	44	494	276		770
03	01	73			12	49	157	18	236	12		248
03	01	75			<u>1</u>	<u>26</u>	<u>127</u>	<u>20</u>	<u>174</u>	<u>15</u>		<u>189</u>
					<u>416</u>	<u>3215</u>	<u>22599</u>	<u>2333</u>	<u>28563</u>	<u>5547</u>		<u>34110</u>
<u>REGION 3 TOTALS</u>												
<u>COUNCIL TOTALS</u>												
03	05				186	1091	6966	690	8933	1130		10063
03	01				59	421	2979	374	3833	782		4615
03	03				19	162	1273	125	1579	350		1929
03	07				33	363	1921	214	2531	658		3189
03	09				48	309	2052	186	2595	564		3159

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 4

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE			SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS						A	SUBTOTAL	S		
04	00	01	ARROWHEAD			23	171	15	209	81		290
04	00	45	CALUMET		2	34	353	51	440	112		552
04	00	03	CEDAR RAPIDS		5	58	311	29	403	54		457
04	00	05	CENTRAL ILLINOIS	1	51	91	476	32	651	299		950
04	00	07	CENTRAL INDIANA		25	171	1338	140	1674	671		2345
04	00	07 01	BLOOMINGTON		(3)	(17)	(139)	(17)	(176)	(17)	(193)	
04	00	09	CENTRAL IOWA		11	46	244	16	317	347		664
04	00	11	CHICAGO		67	464	4951	623	6105	646		6751
04	00	11 03	FOX VALLEY		(16)	(135)	(1644)	(212)	(2007)	(92)	(2099)	
04	00	11 05	NORTHWEST		(10)	(163)	(1736)	(183)	(2092)	(125)	(2217)	
04	00	13	FORT WAYNE		4	53	356	34	447	99		546
04	00	15	ILLINOIS VALLEY			19	181	6	206	63		269
04	00	17	IOWA-ILLINOIS		1	35	193	16	245	19		264
04	00	19	MADISON		9	63	405	28	505	292		797
04	00	33	MICHIANA		4	27	275	33	339	88		427
04	00	21	MILWAUKEE		19	157	1258	122	1556	355		1911
04	00	47	MISSOURI SLOPE			9	64	1	74	11		85
04	00	23	NEBRASKA		2	82	517	122	723	145		868
04	00	25	NORTHEAST MICHIGAN		1	26	281	34	342	94		436
04	00	27	NORTHEASTERN WISCONSIN			35	433	35	503	250		753
04	00	27 01	UPPER PENINSULA			(11)	(120)	(6)	(137)	(232)	(369)	
04	00	49	RED RIVER VALLEY		1	22	185	6	214	114		328
04	00	29	ROCK RIVER VALLEY			17	277	23	317	44		361
04	00	31	SIOUXLAND		1	17	139	13	170	82		252
04	00	35	SOUTHEASTERN MICHIGAN		55	251	2679	244	3229	936		4165 434
04	00	37	SOUTHERN MINNESOTA		2	15	326	35	378	56		
04	00	37 01	COULEE		(1)	(3)	(47)	(6)	(57)	(4)	(61)	
04	00	39	TOLEDO		2	56	315	44	417	107		524
04	00	41	TWIN CITIES		22	157	2510	237	2926	396		3322
04	00	43	WEST MICHIGAN		1	64	515	66	646	91		737
<u>REGION 4 TOTALS</u>				<u>1</u>	<u>285</u>	<u>1992</u>	<u>18753</u>	<u>2005</u>	<u>23036</u>	<u>5452</u>		<u>28488</u>

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 5

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS							SUBTOTAL	S		
05	00	01	ARKANSAS		2	57	340	42	441	58		499
05	00	03	BEAUMONT		1	17	157	5	180	64		244
05	00	05	CENTRAL TEXAS		36	146	2095	209	2486	611		3097
05	00	07	CORPUS CHRISTI		1	22	208	32	263	75		338
05	00	09	DALLAS	1	38	369	4023	331	4762	264		5026
05	00	11	DENVER		60	339	2934	259	3592	522		4114
05	00	11 01	BLACK HILLS		(2)	(7)	(77)	(2)	(88)	(44)	(132)	
05	00	11 03	CENTENNIAL		(5)	(35)	(367)	(21)	(428)	(121)	(549)	
05	00	13	EL PASO		7	52	375	17	451	193		644
05	00	15	FORT WORTH		8	107	1332	131	1578	186		1764
05	00	45	GALVESTON BAY		3	34	657	57	751	76		827
05	00	17	HOUSTON		17	238	2534	287	3076	767		3843
05	00	17 01	FREEPORT			(8)	(90)	(3)	(101)	(8)	(109)	
05	00	19	KANSAS CITY		7	149	1133	154	1443	330		1773
05	00	19 01	SPRINGFIELD-JOPLIN		(2)	(15)	(94)	(16)	(127)	(29)	(156)	
05	00	41	LAFAYETTE		3	9	154	7	173	107		280
05	00	21	OKLAHOMA CITY		6	67	431	31	535	114		649
05	00	37	OZARK		2	30	148	18	198	57		255
05	00	23	PANHANDLE			24	111	10	145	3		148
05	00	39	PERMIAN BASIN			4	70	10	84	2		86
05	00	43	PIKES PEAK		7	56	825	49	937	157		1094
05	00	25	SAINT LOUIS		32	200	2044	120	2396	560		2956
05	00	25 01	ROLLA		(3)	(10)	(92)	(4)	(109)	(180)	(289)	
05	00	27	SHREVEPORT		2	31	213	11	257	95		352
05	00	27 01	MONROE				(1)	(45)	(46)	(6)	(52)	
05	00	29	SOUTH PLAINS		4	16	147	5	172	154		326
05	00	31	TULSA		5	84	436	51	576	145		721
05	00	35	WICHITA		1	51	290	17	359	67		426
<u>REGION 5 TOTALS</u>				1	242	2102	20657	1853	24855	4607		29462

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 6

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE		S	SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS						A	SUBTOTAL			
06	00	03	ALAMOGORDO-HOLLOMAN			8	43	3	54	2		56
06	00	05	ALASKA			15	232	29	276	45		321
06	00	05 03	FAIRBANKS			(7)	(45)	(1)	(53)	(29)	(82)	
06	00	01	ALBUQUERQUE		25	132	1017	73	1247	159		1406
06	00	07	BOISE		2	25	264	19	310	16		326
06	01	09	BUENAVENTURA (LAC)		4	84	1014	108	1210	33		1243
06	01	11	CHINA LAKE (LAC)			18	274	23	315	9		324
06	00	65	EASTERN MONTANA			7	68	3	78	8		86
06	01	13	FOOTHILL (LAC)		13	137	1102	144	1396	153		1549
06	00	15	FORT HUACHUCA		1	21	141	14	177	4		181
06	00	17	HAWAII		12	43	593	52	700	70		770
06	00	19	IDAHO			12	152	16	180	12		192
06	00	21	LAS VEGAS		3	31	191	19	244	46		290
06	00	71	LOS ALAMOS		4	51	214	16	285	32		317
06	01	23	METROPOLITAN LOS ANGELES (LAC)		31	76	624	64	795	289		1084
06	00	25	MONTANA		1	26	146	8	181	54		235
06	00	73	NORTHERN NEVADA		1	34	218	21	274	53		327
06	03	67	OAKLAND-EAST BAY (SFBAC)		66	276	2811	380	3533	465		3998
06	01	27	ORANGE COUNTY (LAC)		42	397	3421	335	4195	390		4585
06	00	29	PHOENIX		39	338	2573	203	3153	363		3516
06	00	31	PORTLAND		40	244	2024	241	2549	275		2824
06	00	33	RICHLAND		4	34	231	21	290	47		337
06	00	35	SACRAMENTO		15	114	1197	111	1437	320		1757
06	00	35 05	SAN JOAQUIN		(3)	(14)	(158)	(21)	(196)	(42)	(238)	
06	00	37	SAN DIEGO		43	326	2654	283	3306	328		3634
06	01	39	SAN FERNANDO VALLEY (LAC)		24	242	1593	202	2061	145		2206
06	03	41	SAN FRANCISCO (SFBAC)		21	196	1494	242	1953	143		2096
06	03	41 01	REDWOOD EMPIRE (SFBAC)		(4)	(33)	(279)	(24)	(340)	(15)	(355)	
06	01	43	SAN GABRIEL VALLEY (LAC)		28	122	868	82	1100	178		1278
06	01	45	SANTA BARBARA (LAC)		23	98	539	45	705	261		966
06	03	69	SANTA CLARA VALLEY (SFBAC)		5	216	891	1073	12197	772		12969
06	03	69 01	MONTEREY BAY (SFBAC)		(15)	(52)	(410)	(57)	(534)	(115)	(649)	
06	01	47	SANTA MONICA BAY (LAC)		68	180	999	112	1359	174		1533
06	00	49	SEATTLE		39	306	3032	291	3668	322		3990
06	01	51	SOUTH BAY HARBOR (LAC)		21	202	2152	193	2568	153		2721

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 6 (cont'd)

<u>GEO CODE</u>				<u>SECTION/SUBSECTION</u>					<u>HIGHER GRADE</u>	<u>SUBSECTION</u>	<u>SECTION</u>	
<u>R</u>	<u>C</u>	<u>S</u>	<u>SS</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>SUBTOTAL</u>	<u>S</u>	<u>TOTAL</u>	<u>TOTAL</u>
06	00	53			1	46	309	20	376	197		573
06	00	55			22	101	523	40	686	147		833
06	00	57			11	78	816	79	984	267		1251
06	00	59			2	14	128	12	156	8		164
06	00	61			1	12	51	5	69	14		83
<u>REGION 6 TOTALS</u>				5	823	4937	43720	4582	54067	5954		60021
<u>COUNCIL TOTALS</u>												
06	01				254	1556	12586	1308	15704	1785		17489
06	03			5	303	1363	14317	1695	17683	1380		19063



## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

REGION 7

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
						A	SUBTOTAL		
07 03 33	CANADIAN ATLANTIC (ECC)		5	21	215	16	257	48	305
07 05 03	HAMILTON (CCC)		4	44	388	162	598	256	854
07 05 01	KINGSTON (CCC)		4	31	130	8	173	167	340
07 05 05	KITCHENER-WATERLOO (CCC)		5	33	287	59	384	152	536
07 05 07	LONDON (CCC)		1	18	165	42	226	91	317
07 03 09	MONTREAL (ECC)		39	157	1647	165	2008	675	2683
07 01 39	N SASKATCHEWAN (WCC)		4	9	118	7	138	135	273
07 03 35	NEW BRUNSWICK (ECC)			22	171	16	209	81	290
07 03 37	NEWFOUNDLAND-LABRADOR (ECC)		1	6	81	2	90	59	149
07 01 13	NORTHERN CANADA (WCC)		1	27	500	51	579	77	656
07 03 15	OTTAWA (ECC)		18	145	1715	173	2051	294	2345
07 05 41	PETERBOROUGH (CCC)		1	21	76	15	113	6	119
07 03 17	QUEBEC (ECC)			10	195	19	224	206	430
07 01 19	S SASKATCHEWAN(WCC)			14	99	16	129	61	190
07 03 21	SAINT MAURICE (ECC)			2	35	2	39	30	69
07 01 23	SOUTHERN ALBERTA (WCC)		3	24	598	92	717	133	850
07 05 25	TORONTO (CCC)		33	152	2248	558	2991	707	3698
07 01 27	VANCOUVER (WCC)		8	106	1008	111	1233	232	1465
07 01 29	VICTORIA (WCC)		3	32	145	27	207	105	312
07 01 31	WINNIPEG (WCC)		3	54	319	110	486	200	686
	<u>REGION 7 TOTALS</u>		133	928	10140	1651	12852	3715	16567
	<u>COUNCIL TOTALS</u>								
07 05	CENTRAL CANADA COUNCIL (CCC)		48	299	3294	844	4485	1379	5864
07 03	EASTERN CANADA COUNCIL (ECC)		63	363	4059	393	4878	1393	6271
07 01	WESTERN CANADA COUNCIL (WCC)		22	266	2787	414	3489	943	4432

## SECTION A

TABLE 7-8A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 8

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE			SUBSECTION TOTAL	SECTION TOTAL
						A	SUBTOTAL	S		
08 00 37	AUSTRIA		2	20	186	27	235	107		342
08 00 01	BENELUX		36	126	1248	191	1601	651		2252
08 00 21	CENTRAL & SOUTH ITALY		16	37	447	116	616	105		721
08 00 25	DENMARK		2	25	301	38	366	81		447
08 00 03	EGYPT		6	51	166	28	251	34		285
08 00 35	FINLAND		3	20	262	24	309	120		429
08 00 05	FRANCE		42	137	904	214	1297	46		1343
08 00 17	GERMANY (WEST)		42	188	1635	290	2155	491		2646
08 00 29	GREECE		3	32	490	46	571	226		797
08 00 29 01	CYPRUS			(5)	(74)	(7)	(86)	(1)	(87)	
08 00 51	HUNGARY		1	25	49	1	76	22		98
08 00 27	IRAN			9	289	123	421	341		762
08 00 09	ISRAEL		19	87	626	91	823	128		951
08 00 47	KENYA			11	91	14	116	5		121
08 00 57	KUWAIT			5	106	20	131	120		251
08 00 59	MOSCOW		2	5	57	1	65	1		66
08 00 39	NIGERIA			3	86	7	96	19		115
08 00 11	NORTH ITALY		14	54	786	219	1073	212		1285
08 00 13	NORWAY		2	31	265	36	334	15		349
08 00 13 07	BERGEN			(1)	(19)	(1)	(21)	(2)	(23)	
08 00 33	POLAND		1	41	91	6	139	25		164
08 00 45	PORTUGAL			15	184	50	249	153		402
08 00 61	ROMANIA			9	60	1	70	2		72
08 00 43	SAUDI ARABIA			50	483	51	584	58		642
08 00 43 01	JUBAIL				(13)	(1)	(14)	(1)	(15)	
08 00 43 05	RIYADH			(28)	(155)	(1)	(198)	(3)	(201)	
08 00 41	SOUTH AFRICA		2	21	356	32	411	74		485
08 00 23	SPAIN		1	30	749	206	986	499		1485
08 00 19	SWEDEN		15	70	543	83	711	110		821
08 00 07	SWITZERLAND		33	92	1186	136	1447	195		1642
08 00 55	TURKEY		1	13	143	10	167	243		410
08 00 49	UNITED ARAB EMIRATES			13	127	29	169	6		175
08 00 15	UNITED KINGDOM & REP IRELAND		1	52	314	2657	275	3299	491	3790
08 00 53	WESTERN SAUDI ARABIA		1	11	133	8	153	11		164
08 00 31	YUGOSLAV			17	351	33	401	81		482
08 00 88	COUNTRIES OUTSIDE SECTIONS			2	367	74	495	29		524
	<u>REGION 8 TOTALS</u>	1	298	1614	15424	2480	19817	4701		24518

## SECTION A

TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1990 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/90	12/31/89	12/31/88
							TOTAL	TOTAL	TOTAL
ALGERIA				8	1		9	7	6
ANGOLA (W.AFRICA)				1			1	1	2
BAHREIN (ARABIAN GULF)			11	39	7	3	60	62	63
BATSUTOLAND								3	1
BOTSWANA (S.AFRICA)				10	3		13	12	7
BULGARIA			3	8	2		13	8	8
BURUNDI				1			1	1	
CAMEROON (C.AFRICA)				2	2		4	3	4
CANARY ISLANDS								1	1
CYPRUS									4
CZECHOSLOVAKIA			6	14	4		24	16	18
GABON									2
GERMANY EAST & E BERLIN			1	4	1		6		
GHANA (W.AFRICA)				8	1		9	12	13
GIBRALTAR				1		1	2	1	2
GUINEA				1	1		2	1	
ICELAND				37	4	2	43	47	48
IRAQ			4	28	6	4	42	47	41
IVORY COAST (W.AFRICA)			1	3	1		5	7	6
JORDAN	2		9	41	5	8	65	66	90
KUWAIT								275	243
LEBANON				2	1		3	4	6
LIBERIA (W.AFRICA)			1				1	5	5
MADAGASCAR			1	1			2	3	
MALAWI (C.AFRICA)			1	1	1		3	6	5
MALTA, ISLE OF			2	13			15	14	15
MOROCCO				7	1		8	9	8
QATAR (ARABIAN GULF)			11	62	7	1	81	80	68
ROMANIA								22	24
RWANDA				1			1		

SECTION A  
(cont'd)

TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1990 - 3 YEAR COMPARISON

<u>COUNTRY</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>12/31/90</u> <u>TOTAL</u>	<u>12/31/89</u> <u>TOTAL</u>	<u>12/31/88</u> <u>TOTAL</u>
SENEGAL (W.AFRICA)				2			2	4	5
SOUTHWEST AFRICA								1	1
SP LIBYAN ARAB JAMAHIRIYA			1	13	2	1	17	17	23
SUDAN				9	1	1	11	14	13
SWAZILAND (S.AFRICA)				6			6	6	3
SYRIA				13		1	14	15	16
TOGO								1	
TUNISIA				9	2	3	14	10	11
TURKEY									136
USSR								12	13
YEMEN ARAB REPUBLIC				6	19	2	27	26	17
APO AND FPO				<u>16</u>	<u>2</u>	<u>2</u>	<u>20</u>	<u>23</u>	<u>30</u>
MEMBERS NOT ASSIGNED TO IEEE SECTIONS	2	52	367	74	29		524	842	958
MEMBERS ASSIGNED TO IEEE SECTIONS	296	1562	15057	2406	4672		23994	21566	19220
<u>TOTAL, REGION 8</u>	298	1614	15424	2480	4701		24518	22408	20178

## SECTION A

TABLE 7-9A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 9

GEO CODE			SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE	S	SUBSECTION TOTAL	SECTION TOTAL
R	C	S SS							SUBTOTAL			
09	00	01	ARGENTINA		2	34	275	47	358	212		570
09	01	27	BAHIA (BC)			7	65	6	78	13		91
09	01	15	BRASILIA (BC)			1	41	5	47	39		86
09	00	03	CHILE			15	275	36	326	434		760
09	00	05	COLOMBIA			10	175	16	201	338		539
09	00	05 01	MEDELLIN			(3)	(12)		(15)		(15)	
09	05	33	COSTA RICA (CAPC)			7	90	11	108	17		125
09	00	29	ECUADOR			5	37	5	47	16		63
09	05	35	EL SALVADOR (CAPC)			12	70	14	96	108		204
09	03	47	GUADALAJARA			3	54	7	64	13		77
09	05	37	GUATEMALA (CAPC)			7	139	9	155	180		335
09	05	39	HONDURAS (CAPC)				43	1	44	14		58
09	03	07	MEXICO (MC)		3	46	517	92	658	842		1500
09	03	07 09	GUANAJUATO (MC)				(1)		(1)	(5)	(6)	
09	03	31	MONTERREY (MC)			9	208	33	250	385		635
09	03	31 01	LAGUNA				(12)	(6)	(18)	(1)	(19)	
09	03	31 05	REYNOSA				(8)		(8)	(3)	(11)	
09	03	31 03	TAMPICO				(23)	(12)	(35)	(62)	(97)	
09	03	41	MORELOS			4	93	14	111	39		150
09	05	25	PANAMA (CAPC)			13	117	7	137	286		423
09	00	21	PERU		1	5	102	14	122	61		183
09	07	09	PUERTO RICO & CARIBBEAN (CC)		1	43	478	52	574	163		737
09	01	11	RIO DE JANEIRO (BC)		3	42	164	11	220	65		285
09	01	17	SOUTH BRAZIL (BC)		3	43	288	49	383	110		493
09	01	17 01	CAMPINAS (BC)			(6)	(31)	(5)	(42)	(5)	(47)	
09	00	43	URUGUAY			10	115	3	128	107		235
09	00	19	VENEZUELAN			22	189	20	231	465		696
09	07	45	WESTERN PUERTO RICO (CC)			4	144	7	155	161		316
09	00	99	COUNTRIES OUTSIDE SECTIONS			2	50	10	62	1		63
<u>REGION 9 TOTALS</u>					13	344	3729	469	4555	4069		8624
<u>COUNCIL TOTALS</u>												
09	01		BRAZIL COUNCIL (BC)		6	93	558	71	728	227		955
09	07		CARIBBEAN COUNCIL (CC)		1	47	622	59	729	324		1053
09	05		CTRL AM PANAMA COUNCIL (CAPC)			39	459	42	540	605		1145
09	03		MEXICAN COUNCIL (MC)		3	62	872	146	1083	1279		2362

## SECTION A

TABLE 7-9B - IEEE MEMBERSHIP IN REGION 9 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1990 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/90	12/31/89	12/31/88
							TOTAL	TOTAL	TOTAL
BELIZE				3			3	5	3
BOLIVIA				21	5	1	27	28	24
CAYMAN ISLANDS				5			5	4	2
FRENCH GUIANA				1			1		
GUYANA			1	5			6	5	8
NICARAGUA				1	1		2	1	
PARAGUAY			1	7	4		12	5	6
SURINAM				1			1	1	1
URUGUAY									69
APO AND FPO				6			6	3	7
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			2	50	10	1	63	52	120
MEMBERS ASSIGNED TO IEEE SECTIONS	13	342	3679	459	4068		8561	7615	6726
<u>TOTAL, REGION 9</u>	13	344	3729	469	4069		8624	7667	6846

## SECTION A

TABLE 7-10A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1990

## REGION 10

GEO CODE		SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE	S	SUBSECTION TOTAL	SECTION TOTAL
R	C S SS							SUBTOTAL			
10	05 61	AUST CAPITOL TERR(ACT) (AUSC)		2	13	116	17	148	19		167
10	01 19	BANGALORE (IC)		1	41	286	17	345	297		642
10	00 51	BEIJING		4	244	187	43	478	66		544
10	00 51 01	SHANGHAI			(33)	(23)	(10)	(66)	(11)	(77)	
10	01 21	BOMBAY (IC)		5	75	359	67	506	470		976
10	01 37	CALCUTTA (IC)		1	45	191	12	249	39		288
10	01 23	DELHI (IC)	1	1	97	408	27	534	293		827
10	01 23 03	UTTAR PRADESH (IC)			(26)	(132)	(9)	(167)	(83)	(250)	
10	01 63	GUJARAT (IC)			12	107	8	127	92		219
10	00 07	HONG KONG		2	38	1498	138	1676	193		1869
10	01 49	HYDERABAD (IC)			17	163	11	191	266		457
10	00 59	INDONESIA			5	189	25	219	38		257
10	00 41	KARACHI			1	99	32	132	19		151
10	01 45	KERALA (IC)			20	274	12	306	414		720
10	01 55	KHARAGPUR (IC)			21	29		50	22		72
10	00 17	KOREA		4	39	1103	124	1270	864		2134
10	01 33	MADRAS (IC)		1	58	405	26	490	1149		1639
10	00 35	MALAYSIA			5	321	18	344	26		370
10	05 09	NEW SOUTH WALES (AUSC)		7	56	1026	74	1163	171		1334
10	03 01	NEW ZEALAND NORTH (NZC)			6	125	19	150	25		175
10	03 39	NEW ZEALAND SOUTH (NZC)		1	12	164	5	182	18		200
10	00 03	PAKISTAN			22	115	11	148	36		184
10	05 53	QUEENSLAND (AUSC)		1	25	346	22	394	160		554
10	00 15	REPUBLIC OF THE PHILIPPINES			5	101	16	122	41		163
10	00 25	SINGAPORE		1	20	1342	113	1476	591		2067
10	05 57	SOUTH AUSTRALIA (AUSC)			13	228	19	260	126		386
10	00 11	TAIPEI		4	37	729	82	852	304		1156
10	00 29	THAILAND			15	138	14	167	67		234
10	00 13	TOKYO	1	202	441	5183	600	6427	223		6650
10	05 43	VICTORIAN (AUSC)		2	38	780	69	889	97		986
10	05 47	WESTERN AUSTRALIA (AUSC)			14	261	29	304	60		364
10	00 99	COUNTRIES OUTSIDE SECTIONS			12	193	30	235	6		241
		<u>REGION 10 TOTALS</u>	2	239	1447	16466	1680	19834	6192		26026
		<u>COUNCIL TOTALS</u>									
10	05	AUSTRALIAN COUNCIL (AUSC)		12	159	2757	230	3158	633		3791
10	01	INDIA COUNCIL (IC)	1	9	386	2222	180	2798	3042		5840
10	03	NEW ZEALAND COUNCIL (NZC)		1	18	289	24	332	43		375

## SECTION A

TABLE 7-10B - IEEE MEMBERSHIP IN REGION 10 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1990 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/90	12/31/89	12/31/88
							TOTAL	TOTAL	TOTAL
ASCENSION ISLANDS				1			1		
BANGLADESH			5	20	1	1	27	19	13
BORNEO/KALAMNTN/BRUNEI/SABAH/SARAWK				22	7		29	29	32
BURMA				1			1	2	3
CAROLINE ISLANDS				1			1	1	
FIJI ISLANDS			1	9	1		11	14	13
GILBERT ISLANDS								1	
GUAM		1		9	1	1	12	13	14
KAMPUCHEA									1
MALAGASY REPUBLIC				1			1		
MALDIVES				1			1	2	
MAURITIUS				19	3	1	23	18	15
NEPAL			1	1			2	5	6
SAIPAN/MARIANA ISLANDS				3	2		5	3	3
SEYCHELLES				3			3	1	
SOLOMON ISLANDS								1	2
SRI LANKA (CEYLON)			2	39	5	3	49	51	43
TONGA ISLAND				1			1	1	
VIETNAM, NORTH & SOUTH		1			2		3	1	1
WAKE ISLAND				1			1		
WESTERN SAMOA				1	1		2	2	
APO AND FPO			1	60	7		68	75	67
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			12	193	30	6	241	239	213
MEMBERS ASSIGNED TO IEEE SECTIONS	239	1435	16273	1650	6186		25785	23541	21895
<u>TOTAL, REGION 10</u>	239	1447	16466	1680	6192		26026	23780	22108



## SECTION B

TABLE 1-IEEE STUDENT BRANCHES AND STUDENT BRANCH MEMBERSHIP  
DECEMBER 31, 1990

REGION 1		
SECTION	SCHOOL	MEMBERSHIP
BINGHAMTON	*BROOME COMMUNITY COLLEGE	14
	NEW YORK STATE UNIV OF-BINGHAMTON (C)	76
BOSTON	BOSTON UNIV (C,EMB)	145
	*FRANKLIN INST OF BOSTON	19
	HARVARD UNIV	46
	LOWELL UNIV OF (C)	138
	MASSACHUSETTS INST OF TECH	251
	MERRIMACK COLLEGE	12
	NORTHEASTERN UNIV (PE)	324
	TUFTS UNIV	98
*WENTWORTH INST OF TECH	42	
BUFFALO	ALFRED UNIV	12
	BUFFALO UNIV AT SUNY/AB (C)	209
	NEW YORK STATE UNIV OF COLLEGE-BUFFALO	52
	*SUNY-ALFRED STATE COLLEGE	10
CONNECTICUT	*BRIDGEPORT ENGRG INST	10
	BRIDGEPORT UNIV OF (C)	26
	CONNECTICUT UNIV OF	74
	*GREATER NEW HAVEN STATE TECH COLLEGE	5
	*HARTFORD STATE TECH COLLEGE	13
	HARTFORD UNIV OF	28
	NEW HAVEN UNIV OF	29
	*THAMES VALLEY STATE TECH COLLEGE	0
	TRINITY COLLEGE	1
	U S COAST GUARD ACADEMY	3
	*WARD TECH COLLEGE	19
	*WATERBURY STATE TECH COLLEGE	61
YALE UNIV	51	
ITHACA	CORNELL UNIV	147
LONG ISLAND	HOFSTRA UNIV	20
	NEW YORK INST OF TECH-OLD WESTBURY	25
	*NEW YORK STATE UNIV OF-FARMINGDALE	8
	NEW YORK STATE UNIV OF-STONY BROOK	79
	POLYTECHNIC INST OF NEW YORK L I CENTER	40
MAINE	MAINE UNIV OF	58
	SOUTHERN MAINE UNIV OF	25
MID-HUDSON	*DUTCHESS COMMUNITY COLLEGE	0
	NEW YORK STATE UNIV OF COLLEGE NEW PALTZ	29
	U S MILITARY ACADEMY (C)	21
MOHAWK VALLEY	CLARKSON UNIV	96
	*NEW YORK A AND T COLLEGE-CANTON	1
	NEW YORK STATE UNIV OF INST OF TECH-UTICA	37
NEW HAMPSHIRE	DARTMOUTH COLLEGE	14
	*HESSER COLLEGE	0
	*NEW HAMPSHIRE TECH INST	10
	NEW HAMPSHIRE UNIV OF	71
NEW JERSEY COAST	MONMOUTH COLLEGE	29
	*UNION TECH INST	1
NEW YORK	*AERONAUTICS COLLEGE OF (C)	10
	*BRAMSON ORT TECH INST	0
	*BRONX COMMUNITY COLLEGE-DAY DIV	16

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

## SECTION B

## REGION 1 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>	
NEW YORK (cont'd)	COLUMBIA UNIV (C)	138	
	COOPER UNION (C)	48	
	MANHATTAN COLLEGE	44	
	NEW YORK CITY COLLEGE OF (COM,MTT)	125	
	*NEW YORK CITY TECH COLLEGE	8	
	NEW YORK INST OF TECH	67	
	NEW YORK STATE UNIV OF-MARITIME COLLEGE	22	
	POLYTECHNIC UNIV (C)	234	
	PRATT INST	24	
	QUEENS COLLEGE-NEW YORK	7	
	*QUEENSBOROUGH COMMUNITY COLLEGE (C)	22	
	STATEN ISLAND COLLEGE OF-ST GEORGE CAMPUS	22	
	*STATEN ISLAND COLLEGE OF-SUNNYSIDE CAMPUS	19	
	*TECHNICAL CAREER INSTS (C)	22	
	*WESTCHESTER COMMUNITY COLLEGE	17	
	NORTH JERSEY	FAIRLEIGH DICKINSON UNIV-DAY DIVISION	37
		*HUDSON COUNTY COMMUNITY COLLEGE	4
*MORRIS COUNTY COLLEGE OF		11	
NEW JERSEY INST OF TECH		202	
STEVENS INST OF TECH		121	
*UNION COUNTY COLLEGE		24	
PRINCETON	*DEVRY TECH INST-WOODBRIDGE	102	
	*MIDDLESEX COUNTY COLLEGE	11	
	PRINCETON UNIV	68	
	RUTGERS UNIV (EMB)	239	
	TRENTON STATE COLLEGE	28	
PROVIDENCE	BROWN UNIV	48	
	RHODE ISLAND UNIV OF	80	
	ROGER WILLIAMS COLLEGE	6	
	SOUTHEASTERN MASSACHUSETTS UNIV (C)	68	
ROCHESTER	ROCHESTER INST OF TECH-BRANCH A (C)	252	
	ROCHESTER INST OF TECH-BRANCH B (C)	4	
	ROCHESTER UNIV OF	60	
SCHENECTADY	*HUDSON VALLEY COMMUNITY COLLEGE	4	
	RENSSELAER POLY INST (C,PE)	253	
	UNION COLLEGE	19	
SPRINGFIELD	MASSACHUSETTS UNIV OF (C)	190	
	WESTERN NEW ENGLAND COLLEGE	33	
SYRACUSE	SYRACUSE UNIV (C,EMB)	130	
VERMONT	*CHAMPLAIN COLLEGE	1	
	NORWICH UNIV (C)	18	
	*VERMONT TECH COLLEGE	8	
	VERMONT UNIV OF	40	
WORCESTER COUNTY	CENTRAL NEW ENGLAND COLLEGE	1	
	WORCESTER POLY INST (EMB)	137	

\* 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,  
 PEL-POWER ELECTRONICS, PE-POWER ENGINEERING.

SECTION BREGION 2

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
AKRON	AKRON UNIV OF (C)	128
BALTIMORE	*ANNE ARUNDEL COMMUNITY COLLEGE	8
	JOHNS HOPKINS UNIV	121
	LOYOLA COLLEGE	16
	MORGAN STATE UNIV	33
	U S NAVAL ACADEMY	12
CANTON	*KENT STATE UNIV-TUSCARAWAS	15
	STEUBENVILLE FRANCISCAN UNIV OF	10
CENTRAL PENNSYLVANIA	BUCKNELL UNIV	38
	PENNSYLVANIA STATE UNIV (C)	481
CINCINNATI	CINCINNATI UNIV OF (C)	66
	CINCINNATI UNIV OF-OMI COLLEGE	25
CLEVELAND	CASE WESTERN RESERVE UNIV (C)	91
	CLEVELAND STATE UNIV	108
COLUMBUS	*COLUMBUS STATE COMMUNITY COLLEGE	5
	*DEVRY INST OF TECH-COLUMBUS	137
	*FRANKLIN UNIV	18
	*MUSKINGUM AREA TECH COLLEGE	17
	OHIO STATE UNIV (C)	295
	OHIO UNIV (C)	54
DAYTON	DAYTON UNIV OF	60
	*DAYTON UNIV OF-TECH INST	8
	*EDISON STATE COMMUNITY COLLEGE	13
	*SINCLAIR COLLEGE	11
	U S AIR FORCE INST OF TECH	23
	WRIGHT STATE UNIV (C)	58
DELAWARE BAY	DELAWARE UNIV OF	56
ERIE	GANNON UNIV	41
	*PENN STATE UNIV-BEHREND COLLEGE	12
JOHNSTOWN	PITTSBURGH UNIV OF-JOHNSTOWN	29
LEHIGH VALLEY	LAFAYETTE COLLEGE	31
	LEHIGH UNIV	102
	*PENNSYLVANIA STATE UNIV WILKES-BARRE	29
	SCRANTON UNIV OF	14
	WILKES COLLEGE	47
LIMA	OHIO NORTHERN UNIV	47
NORTHERN VIRGINIA	GEORGE MASON UNIV (C)	196
PHILADELPHIA	DREXEL UNIV-DAY DIVISION (C)	233
	DREXEL UNIV-EVENING COLLEGE	44
	PENNSYLVANIA UNIV OF (C)	116
	SPRING GARDEN COLLEGE	4
	SWARTHMORE COLLEGE	9
	TEMPLE UNIV (EMB)	114
	VILLANOVA UNIV OF	63
	WIDENER UNIV	40
PITTSBURGH	CARNEGIE MELLON UNIV	232
	*FAIRMONT STATE COLLEGE	8
	*PENNSYLVANIA STATE UNIV-BEAVER CAMPUS	30
	*PENNSYLVANIA STATE UNIV-MCKEESPORT	5
	PITTSBURGH UNIV OF (C)	101
	POINT PARK COLLEGE	13
	WEST VIRGINIA UNIV (C)	64

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 2 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SHARON	GROVE CITY COLLEGE	27
	YOUNGSTOWN STATE UNIV	36
SUSQUEHANNA	PENNSYLVANIA STATE UNIV-CAPITOL	38
	*PENNSYLVANIA STATE UNIV-YORK	24
WASHINGTON	CAPITOL INST OF TECH	37
	CATHOLIC UNIV OF AMERICA	29
	*DISTRICT OF COLUMBIA UNIV OF THE	41
	GEORGE WASHINGTON UNIV (COM,EMB)	136
	HOWARD UNIV	45
MARYLAND UNIV OF (C)	562	
WEST VIRGINIA	WEST VIRGINIA INST OF TECH	29

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( ) 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, EM-ENGINEERING MANAGEMENT, IA-INDUSTRY  
APPLICATIONS, IT-INFORMATION THEORY, IM-INSTRUMENTATION AND  
MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
PEL-POWER ELECTRONICS, PE-POWER ENGINEERING.

SECTION BREGION 3

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ALABAMA	ALABAMA UNIV OF (C)	100
	ALABAMA UNIV OF-BIRMINGHAM	49
	AUBURN UNIV (C,PE)	135
	TUSKEGEE UNIV	14
ATLANTA	*CHATTAHOOCHEE TECH INST	14
	*DEKALB TECH	9
	*DEVRY INST OF TECH-ATLANTA	67
	GEORGIA INST OF TECH (C,EMB,PE)	690
	SOUTHERN TECH INST	110
BATON ROUGE	LOUISIANA STATE UNIV-BATON ROUGE (C)	53
	SOUTHERN UNIV	38
CENTRAL GEORGIA	GEORGIA SOUTHERN COLLEGE	19
	MERCER UNIV	24
CENTRAL NORTH CAROLINA	*GUILFORD TECH COMMUNITY COLLEGE	25
	NORTH CAROLINA A AND T STATE UNIV	45
CENTRAL SAVANNAH RIVER	*AUGUSTA AREA TECH SCHOOL	0
CENTRAL VIRGINIA	VIRGINIA UNIV OF	119
CHARLOTTE	*CENTRAL PIEDMONT COMMUNITY COLLEGE	10
	*GASTON COLLEGE	12
	NORTH CAROLINA UNIV OF-CHARLOTTE	96
CHATTANOOGA	*CHATTANOOGA STATE TECH INST	6
	TENNESSEE UNIV OF-CHATTANOOGA	32
COASTAL SOUTH CAROLINA	CITADEL THE	37
	*TRIDENT TECHNICAL COLLEGE	1
COLUMBIA	*FLORENCE-DARLINGTON TECH COLLEGE	0
	SOUTH CAROLINA STATE COLLEGE	28
	SOUTH CAROLINA UNIV OF	113
EAST TENNESSEE	*PELLISSIPPI STATE TECH COM COLLEGE	30
	TENNESSEE UNIV OF (C)	211
EASTERN NORTH CAROLINA	DUKE UNIV	88
	*FAYETTEVILLE TECH INST	9
	NORTH CAROLINA STATE UNIV (C,PE)	416
	NORTH CAROLINA UNIV OF-CHAPEL HILL	27
	*SO ILLINOIS UNIV/STC	13
*WAKE TECH COLLEGE	18	
EVANSVILLE-OWENSBORO	EVANSVILLE UNIV OF	47
	MURRAY STATE UNIV	22
	SOUTHERN INDIANA UNIV OF	16
FLORIDA WEST COAST	SOUTH FLORIDA UNIV OF (C)	212
GAINESVILLE	FLORIDA UNIV OF (C)	157
HAMPTON ROADS	HAMPTON UNIV	13
	NORFOLK STATE UNIV	30
	OLD DOMINION UNIV (C)	105
HUNTSVILLE	ALABAMA A&M UNIV	18
	ALABAMA UNIV OF-HUNTSVILLE	105
JACKSONVILLE	NORTH FLORIDA UNIV OF	33
JAMAICA	COLLEGE OF ARTS SCIENCE AND TECH	11
LEXINGTON	KENTUCKY UNIV OF	60
LOUISVILLE	LOUISVILLE UNIV OF	152
	WESTERN KENTUCKY UNIV	17
MEMPHIS	*ARKANSAS STATE UNIV	30
	CHRISTIAN BROTHERS COLLEGE	30

\* 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	51
TOLEDO	TOLEDO UNIV OF	85
	*TOLEDO UNIV OF-COMMUNITY & TECH COLLEGE	24
TWIN CITIES	MINNESOTA UNIV OF	271
	ST CLOUD STATE UNIV	58
	*WISCONSIN UNIV OF-STOUT (C)	9
WEST MICHIGAN	WESTERN MICHIGAN UNIV (C)	59

\* 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  
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MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
PEL-POWER ELECTRONICS, PE-POWER ENGINEERING.

SECTION BREGION 5

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARKANSAS	*ARKANSAS COLLEGE OF TECH	17
	ARKANSAS UNIV OF-LITTLE ROCK	26
BEAUMONT	LAMAR UNIV	50
	MCNEESE STATE UNIV	14
CENTRAL TEXAS	ST MARY'S UNIV	21
	TEXAS UNIV OF-AUSTIN (C)	487
	TEXAS UNIV OF-SAN ANTONIO	50
	TRINITY UNIV	13
CORPUS CHRISTI	*DEL MAR COLLEGE (C)	35
	TEXAS A AND I UNIV	48
DALLAS	DEVRY INST OF TECH -IRVING	76
	EAST TEXAS STATE UNIV (C)	10
	SOUTHERN METHODIST UNIV (C)	54
	TEXAS UNIV OF-DALLAS	67
DENVER	COLORADO SCHOOL OF MINES	26
	COLORADO STATE UNIV (C)	79
	COLORADO UNIV OF-BOULDER	143
	COLORADO UNIV OF-DENVER	91
	DENVER UNIV OF	25
	METROPOLITAN STATE COLLEGE	48
	SOUTH DAKOTA SCHOOL OF MINES AND TECH	52
WYOMING UNIV OF	75	
EL PASO	NEW MEXICO STATE UNIV	119
	TEXAS UNIV OF-EL PASO	92
FORT WORTH	TEXAS CHRISTIAN UNIV (C)	2
	TEXAS UNIV OF-ARLINGTON (C)	134
GALVESTON BAY	HOUSTON UNIV OF-CLEAR LAKE	18
HOUSTON	HOUSTON UNIV OF-COLLEGE OF ENGRG	213
	HOUSTON UNIV OF-COLLEGE OF TECH	58
	PRAIRIE VIEW A AND M UNIV	22
	RICE UNIV (C)	64
	TEXAS A AND M UNIV (C, EMB)	298
	TEXAS A AND M UNIV-ENGRG TECH (COM, IA)	97
KANSAS CITY	CENTRAL MISSOURI STATE UNIV	17
	*DEVRY INST OF TECH-KANSAS CITY	15
	KANSAS STATE UNIV	134
	KANSAS UNIV OF	91
	MISSOURI UNIV OF-KANSAS CITY	48
SOUTHWEST MISSOURI STATE COLLEGE	9	
LAFAYETTE	SOUTHWESTERN LOUISIANA UNIV OF (C)	108
OKLAHOMA CITY	OKLAHOMA CHRISTIAN COLLEGE	20
	OKLAHOMA UNIV OF	86
OZARK	ARKANSAS UNIV OF-FAYETTEVILLE	60
PIKES PEAK	COLORADO TECH COLLEGE	29
	COLORADO UNIV OF-COLORADO SPRINGS	78
	SOUTHERN COLORADO UNIV OF	25
	U S AIR FORCE ACADEMY	18
SAINT LOUIS	MISSOURI UNIV OF-COLUMBIA (C)	130
	MISSOURI UNIV OF-ROLLA (C)	241
	PARKS COLLEGE OF ST LOUIS UNIV	18
	SOUTHERN ILLINOIS UNIV-CARBONDALE	55

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION BREGION 3 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
MEMPHIS (cont'd)	MEMPHIS STATE UNIV (C)	38
	MISSISSIPPI UNIV OF	61
	*STATE TECH INST-MEMPHIS	9
	TENNESSEE UNIV OF-MARTIN	28
MIAMI	FLORIDA INTERNATIONAL UNIV	83
	MIAMI UNIV OF (C)	68
MISSISSIPPI	MISSISSIPPI STATE UNIV (EMB,PE)	89
	SOUTHERN MISSISSIPPI UNIV OF	6
MOBILE	SOUTH ALABAMA UNIV OF	72
NASHVILLE	TENNESSEE STATE UNIV	12
	TENNESSEE TECH UNIV (C)	84
	VANDERBILT UNIV	109
NEW ORLEANS	NEW ORLEANS UNIV OF	60
	TULANE UNIV (C)	42
NORTHWEST FLORIDA	WEST FLORIDA UNIV OF	25
ORLANDO	CENTRAL FLORIDA UNIV OF (C & JT CS/RA/SMC)	157
PALM BEACH	FLORIDA ATLANTIC UNIV	76
PIEDMONT	CLEMSON UNIV (C)	165
S BREVARD INDIAN RIVER	FLORIDA INST OF TECH (C)	195
SAVANNAH	SAVANNAH STATE COLLEGE	8
TALLAHASSEE AREA	FLORIDA A AND M UNIV	25
	FLORIDA A&M/FLORIDA STATE UNIV	68
TRI CITIES	*TRI CITIES STATE TECH INST	5
	*TRI-CITIES SECTION STUDENT BRANCH (C)	1
VIRGINIA MOUNTAIN	*SOUTHWEST VIRGINIA COMMUNITY COLLEGE	11
	VIRGINIA MILITARY INST	46
	VIRGINIA POLY INST & STATE UNIV (C, PE, PEL)	258
	*VIRGINIA WESTERN COMMUNITY COLLEGE	21

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 MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
 PEL-POWER ELECTRONICS, PE-POWER ENGINEERING.



SECTION BREGION 4

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARROWHEAD	MINNESOTA UNIV OF-DULUTH (C)	83
CALUMET	PURDUE UNIV-CALUMET	28
	*VALPARAISO TECH INST	16
	VALPARAISO UNIV (C)	50
CEDAR RAPIDS	IOWA UNIV OF	50
	*NORTHERN IOWA UNIV OF	2
CENTRAL ILLINOIS	ILLINOIS UNIV OF-URBANA (C,EMB)	305
CENTRAL INDIANA	*ITT TECH INST-INDIANAPOLIS	42
	PURDUE UNIV-INDIANAPOLIS	54
	PURDUE UNIV-W LAFAYETTE (C)	628
	ROSE-HULMAN INST OF TECH	36
CENTRAL IOWA	IOWA STATE UNIV (C)	381
CHICAGO	DEPAUL UNIV	11
	DEVRY INST OF TECH-CHICAGO	106
	*DEVRY INST OF TECH-LOMBARD	14
	ILLINOIS INST OF TECH (C)	146
	ILLINOIS UNIV OF-CHICAGO (EMB)	164
	NORTHWESTERN UNIV (C)	99
FORT WAYNE	INDIANA INST OF TECH	18
	PURDUE UNIV-FORT WAYNE	50
	TRI-STATE UNIV (C)	20
ILLINOIS VALLEY	BRADLEY UNIV	68
MADISON	WISCONSIN UNIV OF-MADISON (C)	228
	WISCONSIN UNIV OF-PLATTEVILLE	48
MICHIANA	NOTRE DAME UNIV OF	73
MILWAUKEE	MARQUETTE UNIV	136
	MILWAUKEE SCHOOL OF ENGRG	139
	*WAUKESHA COUNTY TECH INST	10
	WISCONSIN UNIV OF-MILWAUKEE (C)	107
	WISCONSIN UNIV OF-PARKSIDE	0
NEBRASKA	*GATEWAY ELECTRONICS INST (C)	17
	NEBRASKA UNIV OF-LINCOLN	87
	*NEBRASKA UNIV OF-OMAHA	32
NORTHEAST MICHIGAN	GMI ENGRG AND MANAGEMENT INST	76
	SAGINAW VALLEY STATE UNIV	37
NORTHEASTERN WISCONSIN	*LAKE SUPERIOR STATE COLLEGE	9
	MICHIGAN TECH UNIV (C,PE)	287
RED RIVER VALLEY	NORTH DAKOTA STATE UNIV (C, EMB)	118
	NORTH DAKOTA UNIV OF	39
ROCK RIVER VALLEY	NORTHERN ILLINOIS UNIV	53
SIouxLAND	DORDT COLLEGE	12
	SOUTH DAKOTA STATE UNIV	68
SOUTHEASTERN MICHIGAN	DETROIT UNIV OF (C)	15
	LAWRENCE INST OF TECH (C)	94
	MICHIGAN STATE UNIV	196
	MICHIGAN UNIV OF-ANN ARBOR	343
	MICHIGAN UNIV OF-DEARBORN	27
	OAKLAND UNIV	68
	*ST CLAIR COLLEGE OF TECH	13
	WAYNE STATE UNIV (C)	94
	WINDSOR UNIV OF	61

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 5 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SAINT LOUIS (cont'd)	SOUTHERN ILLINOIS UNIV-EDWARDSVILLE	45
	WASHINGTON UNIV	104
SHREVEPORT	LETOURNEAU COLLEGE	18
	LOUISIANA TECH UNIV	71
	NORTHWESTERN STATE UNIV OF LOUISIANA	17
SOUTH PLAINS	TEXAS TECH UNIV	168
TULSA	*OKLAHOMA JUNIOR COLLEGE	15
	OKLAHOMA STATE UNIV (C)	68
	OKLAHOMA STATE UNIV-BRANCH B	26
	ORAL ROBERTS UNIV	20
	TULSA UNIV OF	27
WICHITA	WICHITA STATE UNIV	58

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SECTION BREGION 6

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ALASKA	ALASKA UNIV OF	39
ALBUQUERQUE	NEW MEXICO UNIV OF (C)	145
FOOTHILL	CALIFORNIA STATE POLY UNIV-POMONA (C)	106
	DEVRY INST OF TECH-LOS ANGELES	79
	HARVEY MUDD COLLEGE	31
HAWAII	HAWAII UNIV OF	57
LAS VEGAS	NEVADA UNIV OF LAS VEGAS	44
METRO LOS ANGELES	CALIFORNIA STATE UNIV-LOS ANGELES	174
	SOUTHERN CALIFORNIA UNIV OF	320
	WEST COAST UNIV	3
MONTANA	MONTANA STATE UNIV	49
	NORTHERN MONTANA COLLEGE	13
NORTHERN NEVADA	NEVADA UNIV OF-RENO	54
OAKLAND-EAST BAY	CALIFORNIA STATE UNIV-FRESNO (C)	50
	CALIFORNIA UNIV OF-BERKELEY (C)	298
ORANGE COUNTY	CALIFORNIA STATE UNIV-FULLERTON	68
	CALIFORNIA UNIV OF-IRVINE	167
PHOENIX	ARIZONA STATE UNIV (C)	240
	ARIZONA STATE UNIV-II-CET DEPT	21
	DEVRY INST OF TECH-PHOENIX	64
	NORTHERN ARIZONA UNIV	42
PORTLAND	*OREGON INST OF TECH	32
	OREGON STATE UNIV	131
	PORTLAND STATE UNIV	47
	PORTLAND UNIV (C)	38
RICHLAND	WALLA WALLA COLLEGE	33
	WASHINGTON STATE UNIV-RICHLAND	16
SACRAMENTO	CALIFORNIA STATE UNIV-CHICO	38
	CALIFORNIA STATE UNIV-SACRAMENTO (C)	107
	CALIFORNIA UNIV OF-DAVIS	166
	PACIFIC UNIV OF THE (C)	46
SAN DIEGO	CALIFORNIA UNIV OF-SAN DIEGO (C)	143
	NATIONAL UNIV	7
	SAN DIEGO STATE UNIV	97
	SAN DIEGO UNIV OF-ALCALA PARK	61
SAN FERNANDO VALLEY	CALIFORNIA STATE UNIV-NORTHRIDGE	75
	*LOS ANGELES PIERCE COLLEGE	10
SAN FRANCISCO	SAN FRANCISCO STATE UNIV	76
SANTA BARBARA	CALIFORNIA POLY STATE UNIV-SAN LUIS (PE)	155
	CALIFORNIA UNIV OF-SANTA BARBARA (C)	146
SANTA CLARA VALLEY	CALIFORNIA UNIV OF-SANTA CRUZ	52
	*COGSWELL COLLEGE	8
	*FOOTHILL COLLEGE	1
	SAN JOSE STATE UNIV (C)	186
	SANTA CLARA UNIV OF (C)	101
	STANFORD UNIV (C)	284
U S NAVAL POSTGRADUATE SCHOOL	58	
SANTA MONICA BAY	CALIFORNIA UNIV OF-LOS ANGELES	163
	LOYOLA MARYMOUNT UNIV	10
	NORTHROP UNIV	21

\* 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	19
	SEATTLE UNIV	65
	WASHINGTON UNIV OF (C)	149
	WESTERN WASHINGTON UNIV	16
SOUTH BAY HARBOR	CALIFORNIA STATE UNIV-LONG BEACH (C)	155
SPOKANE	GONZAGA UNIV	35
	IDAHO UNIV OF	54
	WASHINGTON STATE UNIV-PULLMAN (C)	133
TUCSON	ARIZONA UNIV OF	163
UTAH	BRIGHAM YOUNG UNIV	78
	BRIGHAM YOUNG UNIV-BRANCH B	12
	UTAH STATE UNIV	53
	UTAH UNIV OF (C)	88
WEBER STATE COLLEGE	44	
WENATCHEE	CENTRAL WASHINGTON UNIV	15

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## SECTION B

## REGION 7

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
CANADIAN ATLANTIC	NOVA SCOTIA TECH UNIV OF	42
HAMILTON	MCMASTER UNIV (C) *MOHAWK COLLEGE OF APPLIED A AND T *NIAGARA COLLEGE (C)	108 41 129
KINGSTON	QUEEN'S UNIV (C) ROYAL MILITARY COLLEGE OF CANADA *SAINT LAWRENCE COLLEGE OF APPLIED A AND T	173 8 12
KITCHENER-WATERLOO	*CONESTOGA COLLEGE OF APPLIED A AND T WATERLOO UNIV OF-STREAM A (C/COM/CS/IT) WATERLOO UNIV OF-STREAM B	47 149 94
LONDON	*FANSHAWE COLLEGE WESTERN ONTARIO UNIV OF	16 72
MONTREAL	CONCORDIA UNIV (C) ECOLE DE TECH SUPERIEURE ECOLE POLY-UNIV OF MONTREAL (C) MCGILL UNIV (C)	150 50 129 167
NEW BRUNSWICK	NEW BRUNSWICK UNIV OF	85
NEWFOUNDLAND-LABRADOR	NEWFOUNDLAND MEMORIAL UNIV OF	54
NORTHERN CANADA	ALBERTA UNIV OF (C) *WESTERRA INST OF TECH	73 4
OTTAWA	*ALGONQUIN COLLEGE OF APPLIED A AND T CARLETON UNIV (C,COM) OTTAWA UNIV OF	26 166 79
QUEBEC	COLLEGE MILITAIRE ROYAL-ST JEAN LAVAL UNIV SHERBROOKE UNIV DE	1 215 128
SAINT MAURICE	QUEBEC UNIV OF-TROIS RIVIERES	37
SOUTH SASKATCHEWAN	REGINA UNIV OF *SASKATCHEWAN TECH INST SASKATCHEWAN UNIV OF	46 11 142
SOUTHERN ALBERTA	CALGARY UNIV OF *SOUTHERN ALBERTA INST OF TECH	84 40
TORONTO	CENTENNIAL COLLEGE OF APPLIED A AND T *DEVRY INST OF TECH-TORONTO *GEORGE BROWN COLLEGE OF APPLIED A AND T *NORTHERN COLLEGE OF APPLIED A AND T *RADIO COLLEGE OF CANADA *RYERSON POLY INST *SAULT COLLEGE OF APPLIED A AND T *SENECA COLLEGE OF APPLIED A AND T TORONTO UNIV OF	14 36 27 18 28 123 2 18 272
VANCOUVER	*BRITISH COLUMBIA INST OF TECH BRITISH COLUMBIA UNIV OF (C) SIMON FRASER UNIV	3 182 27
VICTORIA	VICTORIA UNIV OF	119
WINNIPEG	*ASSINIBOINE COMMUNITY COLLEGE LAKEHEAD UNIV MANITOBA UNIV OF (C) *RED RIVER COMMUNITY COLLEGE	7 63 121 3

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SECTION BREGION 8

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
	ZIMBABWE UNIV OF	2
BENELUX	CATHOLIQUE UNIV OF LOUVAIN	90
	DELFT UNIV OF TECH	80
	EINDHOVEN UNIV OF TECH (C, COM)	95
	GHEENT UNIV OF	66
	KATHOLIEKE UNIV TE LEUVEN	118
	LIEGE UNIV AV SART TILMAN	103
	TWENTE UNIV OF TECH	32
CENTRAL & SOUTH ITALY	FLORENCE UNIV OF	17
	ROME LA SAPIENZA UNIV OF	44
DENMARK	DENMARK SECTION STUDENT BRANCH	26
EGYPT	CAIRO UNIV OF	10
	MENOUFIA UNIV	6
FINLAND	HELSINKI UNIV OF TECH	48
	OULU UNIV OF	40
	TAMPERE UNIV OF TECH	29
FRANCE	ECOLE NATIONAL SUPERIORE TELECOM	2
	NATIONAL POLY DE GRENOBLE ENSIEG	4
GERMANY (WEST)	FACHHOCHSCHULE FUR TECHNIK ESSLINGEN	97
	FACHHOCHSCHULE FURTWANGEN	19
	HANNOVER UNIV-INST FUR	21
	KAISERSLAUTERN UNIV	38
	KARLSRUHE UNIV OF	35
	MUNICH TECH UNIV OF	66
	PASSAU UNIV OF	34
	RUHR UNIV BOCHUM	37
	STUTTGART UNIV OF	27
GREECE	ARISTOTELIAN UNIV OF THESSALONIKA	29
	ATHENS NATIONAL TECH UNIV	76
HUNGARY	BUDAPEST TECH UNIV OF	24
ISRAEL	BEN GURION UNIV OF THE NEGEV	43
	ISRAEL INST OF TECH	21
	TEL-AVIV UNIV	30
KUWAIT	KUWAIT UNIV	83
NORTH ITALY	BOLOGNA UNIV OF	21
	GENOVA UNIV OF	30
	PADOVA UNIV OF	17
	PAVIA UNIV DEGLI STUDI DI	18
	POLITECNICO DI MILANO	36
	POLITECNICO DI TORINO	47
	TRIESTE UNIV OF	24
POLAND	WARSAW UNIV OF TECH	21
PORTUGAL	AVEIRO UNIV DE	79
	*PORTUGAL SECTION STUDENT BRANCH	7
SAUDI ARABIA	KING ABDULAZIZ UNIV	36
SOUTH AFRICA	PRETORIA UNIV OF	32
SPAIN	ESCUELA TEC SUP DE ING DE TELE-VIGO	30
	ESCUELA TEC SUP TELECOM-MADRID (C,EMB)	91
	ESCUELA TECH SUP ING TELECOM-BARCELONA	276

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SECTION B

REGION 8 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SWEDEN	CHALMERS UNIV OF TECH	20
	LINKOPING UNIV	27
	LUND INST OF TECH	17
	ROYAL INST OF TECH	27
	UPPSALA UNIV OF	15
SWITZERLAND	ECOLE POLY FEDERAL LAUSANNE-EPFL	22
	SWISS FEDERAL INST OF TECH-ETHZ	169
TURKEY	BILKENT UNIV	66
	MIDDLE EAST TECH UNIV	103
UKRI	UKRI SECTION STUDENT BRANCH	143
YUGOSLAV	LJUBLJANA UNIV OF	33

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CAS-CIRCUITS AND SYSTEMS, COM-COMMUNICATIONS, C-COMPUTER,  
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SECTION BREGION 9

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARGENTINA	BUENOS AIRES INST TECNOLOGICAL DE	35
	BUENOS AIRES UNIV DE (C)	93
	DEL SUR UNIV DE	26
	NACIONAL TECNOLOGICA UNIV	5
	TUCUMAN NACIONAL UNIV DE	34
BAHIA	BAHIA FEDERAL UNIV DA	10
BRASILIA	BRASILIA UNIV DE	8
CHILE	ANTOFAGASTA UNIV DE	24
	CHILE CATOLICA UNIV DE	19
	CHILE UNIV DE	59
	CHILE UNIV AUSTRAL DE	30
	CONCEPCION UNIV DE (C)	65
	MAGALLANES UNIV DE	4
	SANTA MARIA UNIV TEC FEDERICO (C)	80
	SANTIAGO UNIV DE	86
	TARAPACA UNIV DE	25
VALPARAISO UNIV CATOLICA DE	44	
COLOMBIA	CAUCA UNIV DEL	6
	COLOMBIA UNIV AUTONOMA DE	4
	COLOMBIA UNIV NACIONAL DE	54
	COLOMBIA UNIV PILOTO DE	16
	DISTRITAL UNIV FRANCISCO JOSE CALDAS (C)	83
	ESCUELA COLOMBIANA DE INGENIERIA	23
	LOS ANDES UNIV DE (C,PE)	37
	PONTIFICIA UNIV JAVERIANA	46
	SANTO TOMAS DE AQUINO UNIV	53
	COSTA RICA	COSTA RICA UNIV DE
ECUADOR	ESCUELA POLITECNICA NACIONAL-ECUADOR	11
EL SALVADOR	CENTROAMERICANA UNIV JOSE SIMEON CANAS (C)	67
	EL SALVADOR UNIV EVANGELICA DE	22
	EL SALVADOR UNIV POLITECNICA DE	4
	EL SALVADOR UNIV DE	14
GUATEMALA	GUATEMALA UNIV DEL VALLE DE	46
	SAN CARLOS UNIV DE GUATEMALA (C)	126
HONDURAS	HONDURAS UNIV NACIONAL AUTONOMA	13
MEXICO	CENTRO NAC DE INVESTIGACION DESAROLLO TEC	6
	ESCUELA SUPERIORE ING MECANICA Y ELECTRICA	34
	GUTIERREZ INST TEC DE TUXTLA	24
	HERMOSILLO INST TECNOLOGICO DE	45
	IBEROAMERICANA UNIV	48
	INST TEC ESTUDIOS SUP MONTERREY-MEXICO CTY	147
	INST TEC REGIONAL CIUDAD JUAREZ	0
	LA SALLE UNIV DE (C)	141
	LAS AMERICAS UNIV DE-PUEBLA	66
	MADERO INST TECNOLOGICO DE CIUDAD	69
	METROPOLITANA UNIV AUTONOMA	23
	MEXICO NACIONAL AUTONOMA UNIV DE	131
	MORELIA INST TECNOLOGICO DE	27
ZACATECAS UNIV AUTONOMA DE	24	
MONTERREY	INST TEC DE ESTUDIOS SUP MONTERREY (C)	266
	NUEVO LEON UNIV AUTONOMOUS DE	84

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SECTION BREGION 9 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
PANAMA	PANAMA UNIV TECNOLOGICA OF	218
	SANTA MARIA LA ANTIGUA UNIV	71
PERU	LIMA UNIV NACIONAL DE ING	39
	SAN MARCOS UNIV NACIONAL MAYOR DE	12
PUERTO RICO & CARIBBEAN	PUERTO RICO UNIV POLITECNICA DE	22
RIO DE JANEIRO	FEDERAL FLUMINENSE UNIV-ESCOLA ENGRG	6
	RIO DE JANEIRO FEDERAL UNIV DE	43
SOUTH BRAZIL	ARMANDO ALVARES PENTEADO FOUNDATION ENGRG	0
	ESCOLA POL UNIV DE SAO PAULO	29
	ESTADUAL DE CAMPINAS UNIV	8
	ESTADUAL PAULISTA JULIO DE MESQUITA	0
	MACKENZIE UNIV	6
	SAO CARLOS ESCOLA DE ENGRG	7
URUGUAY	REPUBLICA UNIV DE LA-FACULDADE DE ING	107
VENEZUELAN	CARABOBO UNIV DE	98
	IUPFAN-INST UNIV POLITEC FUERZAS ARMADAS	120
	SIMON BOLIVAR UNIV	151
	VENEZUELA UNIV CENTRAL DE (C)	84
WESTERN PUERTO RICO	INTER AMERICAN UNIV	16
	PUERTO RICO UNIV OF	263

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SECTION BREGION 10

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
	MORATUWA UNIV OF-SRI LANKA	1
AUSTRALIAN CAPITOL TERR	JAMES COOK UNIV OF N QUEENSLAND	20
	SYDNEY UNIV OF TECH	71
BANGALORE	BANGALORE INST OF TECH	17
	*GOGTE INST OF TECH	4
	INDIAN INST OF SCIENCE-BANGALORE (C)	54
	KARNATAKA REGIONAL ENGRG COLLEGE	31
	MANIPAL INST OF TECH	67
	*NMAM INST OF TECH	0
	UNIV VISVESVARAYA COLLEGE OF ENGRG	19
BEIJING	NANJING INST OF TECH	25
	TSINGHUA UNIV-QING HUA	10
BOMBAY	INDIAN INST OF TECH-BOMBAY (C)	25
	JAWAHARLAL NEHRU ENGRG COLLEGE	44
	M S UNIV OF BARODA	43
	PUNE INST OF COMPUTER TECH	42
	RAMRAO ADIK INST OF TECH	11
	THADOMAL SHAHANI ENGRG COLLEGE	29
	VES INST OF TECH	1
	VICTORIA JUBILEE TECH INST	86
	VISWESARAYYA REGIONAL ENGRG COLLEGE	56
	WALCHAND COLLEGE OF ENGRG	57
CALCUTTA	BIRLA INST OF TECH-MESRA	4
	JADAVPUR UNIV	8
DELHI	BANARUS HINDU UNIV (C)	40
	BIRLA INST OF TECH AND SCIENCE	37
	DELHI COLLEGE OF ENGRG (PE)	72
	*DELHI INST OF TECH	25
	INDIAN INST OF TECH-DELHI	13
	INDIAN INST OF TECH-KANPUR	13
	KURUKSHETRA REGIONAL ENGRG COLLEGE	4
	MADAN MOHAN MALAVIYA ENGRG COLLEGE/UNIV GORAK	7
	ROORKEE UNIV OF	31
GUJARAT	GUJARAT UNIV	34
HONG KONG	CHINESE UNIV OF HONG KONG	28
	HONG KONG POLY (C)	55
	HONG KONG UNIV OF	101
HYDERABAD	ANDHRA UNIV	40
	GANDHI INST OF TECH AND MGMT	26
	KSRM COLLEGE OF ENGRG-CUDDAPAH	2
	OSMANIA UNIV	15
	R V R & J C O P COLLEGE OF ENGRG	75
	REGIONAL ENGRG COLLEGE-WARANGAL	66
	SRI VENKATESWARA UNIV	24
KARACHI	NED UNIV OF ENGRG AND TECH	3
KERALA	CALICUT REGIONAL ENGRG COLLEGE (C)	19
	COCHIN UNIV OF (C)	29
	GOVT COLLEGE OF ENGRG-CANNANORE	41
	MAR ATHANASIOUS COLLEGE OF ENGRG	31
	N S S COLLEGE OF ENGRG	115
	T K M COLLEGE OF ENGRG	104

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

## SECTION B

## REGION 10 (cont'd)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
KERALA (cont'd)	TRICHUR GOVT ENGRG COLLEGE-UNIV CALICUT	20
	TRIVANDRUM COLLEGE OF ENGRG UNIV KERALA (C)	32
KHARAGPUR	INDIAN INST OF TECH-KHARAGPUR	34
KOREA	CHUNG-ANG UNIV	30
	CHUNGNAM NATIONAL UNIV	24
	HANYANG UNIV (CAS, C, COM, ED)	76
	INHA UNIV	26
	KOREA ADVANCED INST OF SCIENCE	167
	KOREA UNIV	15
	SEOUL NATIONAL UNIV (COM)	204
	YONSEI UNIV (C,COM)	92
MADRAS	ADHIPARASAKTHI ENGRG COLLEGE	22
	ALAGAPPA CHETTIAR COLLEGE OF ENGRG AND TECH	91
	ANNA UNIV-COLLEGE OF ENGRG-MADRAS (C)	66
	ANNAMALAI UNIV	107
	ARULMIGU KALASALINGAM COLLEGE OF ENGRG	81
	COIMBATORE INST OF TECH	48
	CRESCENT ENGRG COLLEGE	7
	GOVERNMENT COLLEGE OF ENGRG-SALEM	10
	HINDUSTAN COLLEGE OF ENGRG	2
	INDIAN INST OF TECH-MADRAS (C)	14
	KARUNYA INST OF TECH	20
	KONGU ENGRG COLLEGE	25
	KUMARAGURU COLLEGE OF TECH	56
	MADRAS INST OF TECH (C,IM)	17
	MARUTHI COLLEGE OF ENGRG	0
	MEPCO SCHLENK ENGRG COLLEGE	48
	MOHAMED SATHAK ENGRG COLLEGE	33
	MOOKAMBIGAI COLLEGE OF ENGRG	0
	NATIONAL ENGRG COLLEGE	27
	PONDICHERRY ENGRG COLLEGE	15
	PSG COLLEGE OF TECH (C)	174
	PSNA COLLEGE OF ENGRG AND TECH	13
	REG ENGRG COLLEGE-TIRUCH (C,COM,PE,EM,EMB)	66
	SRI RAMASAMY MEMORIAL ENGRG COLLEGE	22
	SRI VENKATESWARA COLLEGE OF ENGRG-AZARA	49
	THIAGARAJAR COLLEGE OF ENGRG-MADURAI	48
	VINAYAKA MISSION'S KIRUPANANDA VAR. ENGRG COL	1
VLB JANAKAKIAMMAL COLLEGE OF ENGRG	3	
NEW ZEALAND SOUTH	CANTERBURY UNIV OF	14
PAKISTAN	LAHORE UNIV OF ENGRG AND TECH	28
QUEENSLAND	QUEENSLAND UNIV OF	18
REPUBLIC OF PHILIPPINES	PHILIPPINES UNIV OF (C)	7
	SANTO TOMAS UNIV OF	1
SINGAPORE	NANYANG TECH INST	358
	SINGAPORE NATIONAL UNIV OF	207
THAILAND	CHULALONGKORN UNIVERSITY	22
	KING MONGKUT'S INST OF TECH	25
TOKYO	OSAKA UNIV	23
	SHIZUOKA UNIV	8
	TOKYO UNIV OF	73

\* 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,  
 PEL-POWER ELECTRONICS, 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
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## Division VI - Engineering and Human Environment

E-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
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## Division VIII - Computer \*

COMP-16	Computer
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## Division IX - Signals and Applications

AES-10	Aerospace and Electronic Systems
GRS-29	Geoscience and Remote Sensing
OE-22	Oceanic Engineering
SP-01	Signal Processing
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
NN-11	Neural Networks Council
RA-24	Robotics and Automation
SMC-28	Systems, Man, and Cybernetics

\* The Computer Society is represented by two Divisions

## SECTION C

TABLE 2 - SOCIETY MEMBERSHIP, BY DIVISION, BY SOCIETY, BY GRADE, DECEMBER 31, 1990; 3-YEAR COMPARISON, MEMBERS AND AFFILIATES

SOCIETY CODE	HM	F	SM	M	VOTING MEMBERS SUBTOTAL		HIGHER GRADE SUBTOTAL		1990	1990	1990	1989	1988
					S	TOTAL MEMBERS	TOTAL AFFIL.	MEMBERS & AFFIL.	MEMBERS & AFFIL.				
DIVISION I		893	2,416	21,513	24,822	2,129	26,951	4,902	31,853	118	31,971	32,019	30,592
CAS -04		346	890	10,142	11,378	957	12,335	2,581	14,916	3	14,919	14,781	14,541
CHMT-21		87	403	3,083	3,573	548	4,121	244	4,365	42	4,407	4,668	4,234
ED -15		432	1,030	7,712	9,174	710	9,884	1,170	11,054	6	11,060	11,078	10,573
LEO -36		240	597	4,331	5,168	464	5,632	1,639	7,271	68	7,339	7,402	7,049
DIVISION II		446	2,524	14,715	17,685	1,656	19,341	1,299	20,640	20	20,660	20,130	19,509
DEI -32		103	379	1,439	1,921	240	2,161	86	2,247	11	2,258	2,193	2,101
IA -34		219	1,678	8,174	10,071	728	10,799	416	11,215	4	11,219	10,956	10,674
IM -09		155	480	3,989	4,624	621	5,245	517	5,762	5	5,767	5,698	5,770
PEL -35		74	384	3,521	3,979	382	4,361	544	4,905	1	4,906	4,698	4,261
DIVISION III		664	2,720	27,406	30,790	3,327	34,117	4,466	38,583	312	38,895	37,166	35,675
BT -02		88	282	1,775	2,145	382	2,527	291	2,818	2	2,820	2,719	2,619
CE -08		102	361	4,098	4,561	678	5,239	682	5,921	3	5,924	5,951	5,885
COMM-19		550	2,187	22,526	25,263	2,507	27,770	3,642	31,412	304	31,716	30,095	28,797
VT -06		91	368	2,412	2,871	274	3,145	313	3,458	4	3,462	3,094	2,804
DIVISION IV		845	2,581	16,567	19,993	1,747	21,740	2,575	24,315	247	24,562	24,352	23,894
AP -03		338	1,021	6,084	7,443	581	8,024	1,252	9,276	3	9,279	8,647	8,337
EMC -27		120	431	2,884	3,435	388	3,823	219	4,042	4	4,046	3,856	3,535
MAG -33		145	462	2,575	3,182	381	3,563	281	3,844	85	3,929	3,809	3,821
MTT -17		392	1,122	7,511	9,025	674	9,699	1,374	11,073	8	11,081	11,607	11,761
NPS -05		139	371	2,126	2,636	234	2,870	271	3,141	149	3,290	3,275	3,273
DIVISIONS V & VIII		706	3,249	55,808	59,763	7,673	67,436	12,456	79,892	27,157	107,049	106,674	100,579
COMP-16		706	3,249	55,808	59,763	7,673	67,436	12,456	79,892	27,157	107,049	106,674	100,579
DIVISION VI		433	2,010	13,996	16,439	1,805	18,244	1,286	19,530	265	19,795	19,484	18,647
E -25		202	588	1,809	2,599	239	2,838	274	3,112	7	3,119	3,167	2,961
EM -14		119	807	7,425	8,351	817	9,168	564	9,732	150	9,882	9,571	9,077
PC -26		25	248	1,785	2,058	381	2,439	171	2,610	87	2,697	2,756	2,732
R -07		83	441	3,230	3,754	482	4,236	188	4,424	12	4,436	4,386	4,252
SIT -30		102	292	1,876	2,270	283	2,553	283	2,836	11	2,847	2,776	2,744
DIVISION VII		624	4,244	17,030	21,898	1,339	23,237	1,183	24,420	6	24,426	24,075	23,906
PE -31		624	4,244	17,030	21,898	1,339	23,237	1,183	24,420	6	24,426	24,075	23,906
DIVISION IX		681	2,158	18,705	21,544	1,759	23,303	4,284	27,587	119	27,706	27,546	27,320
AES -10		271	948	6,442	7,661	609	8,270	1,194	9,464	10	9,474	10,035	10,364
GRS -29		75	251	1,727	2,053	260	2,313	323	2,636	79	2,715	2,525	2,427
OE -22		88	232	1,427	1,747	251	1,998	235	2,233	14	2,247	2,237	2,235
SP -01		315	984	10,911	12,210	881	13,091	2,834	15,925	12	15,937	15,554	15,241
UFFC-20		97	244	1,486	1,827	179	2,006	196	2,202	5	2,207	2,155	2,137
DIVISION X		681	2,322	22,230	25,233	2,431	27,664	6,232	33,896	323	34,219	32,536	31,382
CS -23		236	759	7,559	8,554	727	9,281	2,130	11,411	20	11,431	10,884	10,472
EMB -18		132	521	4,985	5,638	588	6,226	1,465	7,691	163	7,854	7,515	7,499
IE -13		119	595	4,622	5,336	580	5,916	644	6,560	2	6,562	6,657	5,621
IT -12		257	469	3,881	4,607	395	5,002	1,293	6,295	10	6,305	5,983	5,436
RA -24		96	372	4,101	4,569	549	5,118	1,607	6,725	87	6,812	6,768	6,624
SMC -28		127	385	3,198	3,710	392	4,102	927	5,029	45	5,074	4,819	4,792
TOTAL SOCIETY MEMBERS		3,231	15,139	135,709	154,079	15,507	169,586	24,847	194,433	28,325	222,758	217,792	207,319
TOTAL SOCIETY MEMBERSHIPS		7,295	28,075	233,684	269,054	27,374	296,428	43,489	339,917	28,579	368,496	363,064	349,134

SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 1	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36
BERKSHIRE	160	12	3	0	3	1	0	0	1	1	2	9	0	1	7	2	36*	2	3	2	0	2	1	7*	3	4	3	10	3	0	1	36*	10	1	4	2	0
BINGHAMTON	679	41	18	6	13	24	3	0	9*	11	6	48*	5	15	27	9	234*	15	9	19	1	24	0	26	12	11	5	9	8	4	7	38*	0	5	18	18	19
BOSTON (CNEC)	11845	1240	719*	65	354*	486*	119*	74	197*	193	241*	410*	271*	122	324*	487*	2983*	530*	339*	1104*	94*	198*	97*	330*	187	82*	70*	117*	156	90	136*	464*	54	121*	169*	152	310*
BUFFALO	947	61	29	5	16*	24	9	7	6	14	23	30	15	44	24*	17	219*	32*	29	42	6	14	2	44*	16	9	3	9	12	2	5	98*	22	12	61*	27	20
CONNECTICUT	3642	390	214*	37	71	121	33	19	36	64	59	106	54	85	114	75	884*	77	116	274	48	55	50	112	71	33	28	43	57*	24	43	270*	41	47	128	51	102
ITHACA	444	42	34	3	8	26	12	0	1	2	6	3	18	3	4	41	100	19*	8	26	4	8	2	21	10	3	2	1	7	10	6	11	2	1	8	1	33
LONG ISLAND (METSAC)	3032	234	113*	42	102*	100	62	34*	72*	81	46*	163*	46*	43	90*	53*	665*	216*	77*	244*	34*	46	25	53	47	26	37	57*	28	13	34	163*	27	34	59*	37	63*
MAINE (CNEC)	458	53	9*	14	18*	19*	7*	3	6*	2	9	7	2	10	15	20*	83*	15*	8*	26*	5*	8*	6*	17*	7	9*	6*	4*	3	7	4*	63*	3	3*	31*	5	4*
MID-HUDSON	1213	146	20	6	15	50	9	7	30	14	9	11	8	14	31	126*	468*	20	17	50	4	47	9	18	17	12	11	16	5	2	14	74*	8	10	15	16	30
MOHAWK VALLEY	672	52	37	4	47	17	1	3	27*	5	8	55*	12	7	16*	17	119*	36	4	47*	2	9	7	12	11	13	2	18*	10	5	5	44	4	8	14	7	39*
NEW HAMPSHIRE (CNEC)	1675	222	73*	8	71*	63*	18*	11	31*	22	37*	62*	17*	23	51*	40*	475*	113*	31*	129*	4*	31*	20*	36*	32	3*	6*	30*	19	12	13*	98*	5	28*	23*	19	21*
NEW JERSEY COAST	2851	162	98*	21	60*	74*	12*	39*	28	41	37*	56*	62	17	71*	95*	713*	105*	28	821*	13	17	9	38	15	22	20	37*	24	11	15	51	9	17	26	13	136*
NEW YORK (METSAC)	6145	818	263	101*	74*	249	51	60*	44*	172*	81*	111	163	79	148*	217	1672*	130*	198*	766*	34	70	29	134	119	65	63	38*	83	19	87	404*	36	50	153*	42	140
NORTH JERSEY (METSAC)	4954	458	255*	58	70*	201	31	72*	67*	115	75*	124	83	78	134*	135	1247*	145*	123*	690*	16	75	25	95*	79	27	34	27	52*	14	49	305*	35	47	171*	67	133
PRINCETON (METSAC)	2980	330	139	28	46*	118*	42*	47	15	68*	46	58	73*	39	65	133*	726*	113*	86*	421*	19	54	13	74	38*	20	32	19	31	11	20	138*	24	24	68	32	100*
PROVIDENCE (CNEC)	1409	120	135*	9	20*	42*	7*	8	15*	21	26*	40*	33*	17	45*	32*	335*	24*	35*	107*	13*	28*	80*	41*	37	14*	3*	9*	15	12	12*	115*	9	7*	28*	9	26*
ROCHESTER	1445	165	66*	6	18	49	7	19	13	34	18	14*	18	42*	41*	66*	460*	21	29*	101*	12	17	5	38*	18	14	12	12	11	6	14	102*	12	27*	56*	12	55
SCHENECTADY	1633	103	60	4	19	49	25	10	12	10	10	17	36	36	25	69*	259*	25*	32	91	12	19	7	72*	44	16	10	14	37*	6	11	338*	31	43	107*	46	31
SPRINGFIELD	613	32	18	9	42*	26	0	3	3	12	6	7	13	5	5	17*	155	61*	9	34	1	3	8	29	11	9	4	3	12	26*	5	32	4	5	10	3	23*
SYRACUSE	987	68	59	6	62*	31*	4	1	15	20	7	45	9	13	31	40*	231*	81*	19	34	6	5	11	17	12	10	7	15	13	8	5	102*	4	2	39*	5	18
VERMONT	509	53	15	3	9	43	0	2	12	4	5	11	3	5	12	89	107	6	18	18	5	15	1	15	6	7	0	2	3	1	3	46*	5	5	11	5	17
WORCESTER COUNTY (CNEC)	1115	112	38*	3	23*	57*	4*	6	30*	12	12*	17*	11*	10	36*	43*	341*	33*	32*	94*	6*	28*	5*	21*	18	10*	10*	15*	12	2	13*	83*	12	29*	14*	21	14*
TOTALS	49408	4914	2415	438	1161	1870	456	428	670	918	769	1404	952	708	1316	1823	12512	1819	1250	5140	339	773	412	1250	810	419	368	505	601	285	502	3075	357	526	1213	590	1334

\*=CHAPTER OR JOINT CHAPTER ESTABLISHED

SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 2	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36
AKRON	606	45	16	2	13	13	4	6	8	5	8	16	7	27	16	5	119*	10	21	22	2	6	4	36	12	2	5	5	9	1	3	116*	9	5	65*	4	4
ALLEGHENY MOUNTAIN	56	0	1	1	1	2	0	0	1	1	1	1	0	2	4	0	11	2	0	4	0	3	0	1	3	1	2	0	1	1	2	5	0	2	2	1	0
BALTIMORE	4114	434	257	37	162*	91	32*	27	77*	45	53	272	93	46	137	119	881*	179*	105*	438*	34*	40	52	94	54	27	27	74*	41	36	18*	261*	16	21	161*	27	80
CANTON	182	15	4	0	1	2	1	1	2	2	3	2	2	6	4	1	44	3	1	5	1	1	2	7	7	2	2	0	1	1	0	36*	6	2	24	5	1
CENTRAL PENNSYLVANIA	657	43	70*	2	24	35	4	4	3	7	4	16	14	6	5	30	168	28	19	40	10	7	8	28	15	13	4	4	5	11	9	16	2	4	10	6	26
CINCINNATI	842	124	39	9	24	27	6	6	12	8	15	10	14	25	36	24	209	30	18	56	5	7	1	43	13	7	7	10	10	0	4	63*	10	10	63*	11	10
CLEVELAND	1658	125	61	11	26	57	21	25*	21*	26	47*	19	12	80*	50*	31*	327*	29*	93*	74	16	16	11	99	31	7	15	9	26	5	13	166*	15	16	140*	45	18*
COLUMBUS	1759	166	62*	14	90*	57	11	19	11	22	27	52	14	49	44	17*	424*	41*	32*	111*	5	8	3	98*	49	22	12	8	42	11	12	227*	12	13	78*	29	33*
DAYTON	1491	147	76*	2	74*	32	9	8	22	13	22	141*	16	22	98*	36	352*	47*	31*	79*	14	6	8	61*	30	19	15	25*	38	7	10	63*	7	15	46*	13	34
DELAWARE BAY	550	53	24	3	5	13	3	6	3	8	17	5	15	19	8	15	112	13	16	33	2	8	1	17	10	4	4	6	8	1	8	64*	10	3	69*	3	14
EASTERN SHORE	87	14	2	3	0	2	2	1	2	3	2	2	0	0	1	1	15	3	1	5	0	2	1	0	0	0	0	6	0	3	1	24	3	0	2	0	0
ERIE	188	12	3	1	5	3	0	7	0	1	4	2	1	11	5	0	18	2	3	5	3	4	1	8	4	6	3	5	2	1	2	22	8	7	34	7	0
JOHNSTOWN	122	14	3	4	3	2	0	1	0	3	2	4	0	7	2	2	21	0	3	4	0	1	0	8	9	4	2	0	1	1	0	20	1	1	12	0	1
LEHIGH VALLEY	1403	95	29	10	13	94*	13	6	17	30	28	16	13	34	33	143*	244	53	16</																		

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

SECTION C																																						
REGION 3	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 11	IE 12	EM 13	ED 14	COMP 15	MTT 16	EMB 17	COM 18	UFFC 19	CHMT 20	OE 21	CS 22	RA 23	E 24	PC 25	EMC 26	SMC 27	GRS 28	SIT 29	PE 30	DEL 31	MAG 32	IA 33	PEL 34	LEO 35	36
ALABAMA	1043	79	17	8	23	23	10	3	4	13	16	18	2	28	24	13	181*	18	25	121*	4	12	6	48	25	23	8	12	11	0	7	212*	10	6	80*	20	12	
ATLANTA	4071	290	207*	58	165*	149	12	41	17	83	49	131*	59	65	121*	47	761*	160*	93*	494*	15	18	20	128	68	46	31	38*	56	38	38	486*	27	20	222*	35	73*	
BATON ROUGE	296	27	9	0	2	8	0	0	9	0	7	3	5	13	6	11	58	4	6	17	0	2	4	12	4	4	1	0	4	6	2	9	99*	0	5	12	9	1
BROWARD (FC)	687	56	24	9	13	23	4	16	12	14	10	13	8	7	31	10	177*	16	10	89*	4	9	6	14	7	3	10	8	3	2	2	10	0	1	7	2	4	
CANAVERAL (FC)	235	25	8	0	16	9	1	1	5*	2	4	29	1	3	11*	6	59*	5	4	21	1	1	1	4	1	2	1	6	2	2	5	36	1	1	21	5	2	
CENTRAL GEORGIA	249	21	8	0	5	6	1	1	4	2	2	18	1	8	9	3	62*	8	4	14	0	1	0	12	2	3	4	3	0	0	2	36	1	1	21	5	2	
CENTRAL NORTH CAROLINA (NCC)	240	15	7	3	1	23	0	2	4	7	4	4	3*	12	13	11	52	5	8	17*	2	4	2	3	4	0	2	1	5	1	2	19	0	0	14	2	3	
CENTRAL SAVANNAH RIVER (SCC)	203	19	5	0	2	3	1	3	1	1	11	0	0	7	8	1	42	2	8	12	0	0	0	15	6	3	3	0	1	1	0	36	1	2	21	3	4	
CENTRAL VIRGINIA (VC)	644	52	30	8	26	21	10	20	10	6	8	17	21	16	16	14	137	28	18	61	7	7	2	22	15	6	6	5	21	4	10	32	4	7	19	2	8	
CHARLOTTE (NCC)	673	39	5	3	3	9	0	1	0	5	8	4	1	16	23	9	146*	2	7	44*	2	6	0	22	12	4	4	5	7	0	6	225*	5	8	55	13	13	
CHATTANOOGA (TC)	251	20	4	2	0	4	2	1	0	0	6	2	1	6	8	1	30	1	1	7	0	0	0	7	7	3	1	2	2	1	0	130*	1	0	17	1	3	
COASTAL SOUTH CAROLINA (SCC)	311	22	7	5	9	9	1	1	2	4	6	10	2	12	12	0	49	9	12	21	2	5	1	12	8	2	3	4	2	1	0	59	3	3	21	4	10	
COLUMBIA (SCC)	374	31	6	5	10	6	4	2	5	4	4	4	1	11	12	4	112	5	4	31	0	4	1	8	14	4	1	4	4	0	3	48	8	3	33	5	4	
DAYTONA (FC)	147	10	4	2	5	6	2	0	2*	2	1	4	3	1	7	0	40	2	2	10	2	0	2	2	2	1	1	5	5	3	22	0	0	5	0	1		
EAST TENNESSEE (TC)	625	48	22	4	5	17	30	3	6	20	21	9	7	18	13	6	150*	4	9	21	2	4	3	38	16	3	2	6	12	1	9	105*	5	2	32	13	7	
EASTERN NORTH CAROLINA (NCC)	2555	256	94	22	36	114	23	13	35	32	29	22	25*	43	61	112	669*	40	107*	393*	9	30	13	42	51	23	20	25	27	6	18	232*	11	11	78*	47	42	
EVANSVILLE-OWENSBORO	226	13	2	3	4	9	2	3	5	1	5	4	1	16	8	3	44	9	1	11	1	6	0	10	1	1	2	2	1	2	1	30	2	6	20	7	3	
FLORIDA WEST COAST (FC)	1739	120	66*	19	42*	39	19	10	35*	32	26	51	15	28	60	29	406*	74*	43	137	5	17	11	34	19	9	14	20	10	7	17	315*	19	15	63	18	15	
GAINESVILLE (FC)	492	36	19	7	9	25	9	4	2	4	5	12	5	5	5	35	128	10	17	24	1	6	5	22	15	7	1	3	8	1	4	47	1	2	13	9	22	
HAMPTON ROADS (VC)	756	113	30	4	29	23	18	5	13	5	17	41	8	11	38	15	208*	17	11	47	9	4	16	45	8	3	1	10	10	8	7	42	2	3	24	2	22	
HUNTSVILLE	1483	172	77	4	77*	37	21	6	24	24	33	143*	22	16	63*	15	390*	53*	15	103	0	7	7	104*	27	6	10	14	31	22	11	43	2	7	15	9	45*	
JACKSONVILLE (FC)	255	28	2	2	2	4	3	5	1	5	3	11	1	6	8	1	64	2	3	24	1	1	3	11	5	3	1	3	3	0	2	44	5	3	18	2	3	
JAMAICA	235	2	2	2	5	3	0	2	2	14	4	0	3	13	40	0	29	4	2	19	0	0	0	4	0	3	5	0	0	5	45	0	0	14	14	1		
LEXINGTON	330	29	8	5	6	6	3	2	3	5	3	4	2	15	14	5	67	3	6	25	1	6	1	8	13	2	1	13	6	0	4	40	7	8	19	17	2	
LOUISVILLE	282	34	7	2	7	5	2	2	4	9	4	3	3	6	12	2	67*	7	16	16	1	2	0	17	12	6	0	1	4	0	2	36	0	5	11	3	8	
MEMPHIS (TC)	480	45	9	3	22	9	6	1	6	10	6	13	8	15	22	5	92*	23	26*	37	3	1	2	17	7	15	7	8	3	2	4	48*	3	4	33*	3	7	
MIAMI (FC)	845	88	37	12	13	23	5	5*	7	14	18	13	5	10	22*	7	232*	0	52*	60*	7	6	11	15	12	9	3	0	10	7	8	161*	4	5	37*	10	3	
MIDDLE TENNESSEE (TC)	90	5	6	1	3	3	4	0	2	0	2	2	0	8	2	0	21	3	0	3	0	0	0	5	2	0	1	0	0	2	1	0	0	0	0	0	0	2
MISSISSIPPI	421	26	14	4	11	17	5	3	2	3	5	4	6	7	15	7	73	8	3	24	0	3	8	19	6	5	6	5	2	3	2	119	10	3	14	3	2	
MOBILE	167	19	8	2	5	6	0	3	0	1	2	3	1	5	6	0	40	4	3	8	0	1	2	9	3	0	0	4	2	0	0	26	0	2	19	1	1	
NASHVILLE (TC)	600	45	24	6	4	25	15	2	4	7	8	14	5	19	30	9	118*	3	40	40	0	4	3	34	23	13	3	2	8	1	3	64	5	2	43*	14	5	
NEW ORLEANS	730	51	22	9	11	13	3	8	9	11	10	12	7	21	21	3	115*	8	24*	62*	5	3	18*	32	7	4	5	3	5	14	5	182*	5	3	58	8	4	
NORTHWEST FLORIDA (FC)	325	26	13	2	16	7	2	3	2	4	4	38	3	2	7	4	79	13	2	15	0	1	3	32	4	2	1	8	8	2	1	21	3	1	9	9	4	
OAK RIDGE (TC)	171	27	5	0	1	3	30	0	2	1	6	5	0	6	2	2	44*	1	1	3	0	0	0	8	9	2	1	2	2	1	1	14	4	6	6	1	2	
ORLANDO (FC)	1081	77	54*	4	35*	33	6	17*	20	11	13	52*	14	14	34	17*	264*	43*	11	90*	28*	16*	11	28	20	5	10	10	15	3	4	101*	8	8	26*	5	51*	
PAIM BEACH (FC)	890	63	32	8	15	26	4	10	10	16	11	22	8	8	32	7	261*	18	17	106	4	14	14	18	12	6	10	13	11	5	7	126*	4	5	12	6	12	
PIEDMONT (SCC)	498	42	10	3	12	12	3	2	10	6	11	8	4	19	8	9	116	10	5	22	1	8	2	29	18	7	5	5	7	3	2	61	8	2	57	8	5	
RICHMOND (VC)	602	81	26	2	18	8	8	3	2	8	6	24	8	11	20	3	143	8	10	40	0	3	0	20	9	6	4	19	4	6	3	128	12	1	30	6	3	
SAVANNAH	63	3	1	1	2	1	1	0	1	0	2	2	1	2	0	2	8	1	2	2	0	0	2	3	0	2	0	0	0	1	18	0	0	5	1	2		
SO BREVARD INDIAN RIVER (FC)	972	58	63	2	44*	43	25	9	23	12	5	56	23	5	27	56	225*	44*	8	123	4	16	6	26	14	6	8	9	10	11	2	35	2	1	4	4	21	
TALLAHASSEE AREA (FC)	247	35	25	3	5																																	

SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 4	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 11	IE 12	EM 13	ED 14	COMP 15	MTT 16	EMB 17	COM 18	UFFC 19	CHMT 20	OE 21	CS 22	RA 23	E 24	PC 25	EMC 26	SMC 27	GRS 28	SIT 29	PE 30	DEI 31	MAG 32	IA 33	PEL 34	LEO 35	36
ARROWHEAD	196	5	3	2	1	6	1	1	0	1	5	1	1	6	6	2	70	2	2	7	0	0	0	5	1	2	2	2	2	0	2	39	1	1	15	4	3	
CALUMET	433	31	9	4	5	12	1	5	2	6	8	10	4	17	14	0	91*	3	12	20	0	0	2	26	11	10	4	2	3	1	4	80*	2	6	42*	12	5	
CEDAR RAPIDS	387	57	20	1	12	15	5	7	10	3	5	14	4	5	16	3	91*	19	11	34	2	5	1	18	8	0	1	8	4	3	3	28	2	2	10	7	10	
CENTRAL ILLINOIS	1061	96	39	10	47	71	19	5	8	11	7	4	33	7	14	45	290	58	26	53	12	8	2	46	14	13	0	10	15	10	7	84*	1	10	23	11	48	
CENTRAL INDIANA	2269	144	117*	20	34	84	19	24	14	65	28	59	42	32	56	66	494	40	61*	142	9	25	11	120	70	39	10	15	53	25	10	316*	11	31*	55	33	39	
CENTRAL IOWA	444	44	16	4	7	22	1	1	3	5	4	5	7	7	8	10	116	16	13	31	5	5	2	21	4	15	5	3	4	2	3	63	0	9	15	5	7	
CHICAGO	6668	800	273*	63	128*	213	60	138	80*	224*	94	84	89	165*	252*	79*	1643*	140*	182*	797*	53	105*	18	176	122	32	51*	93*	60	16	61	551*	47	49	310*	103	117*	
FORT WAYNE	424	44	18	2	7	13	6	5	14	14	8	20	13	11	12	5	80	10	6	42	1	7	1	11	7	5	8	5	6	0	5	34	9	7	15	8	9	
ILLINOIS VALLEY	204	19	6	6	4	9	1	1	1	1	3	2	3	11	8	0	56*	4	5	8	0	0	1	20	8	3	1	1	0	2	2	18	1	0	13	4	1	
IOWA-ILLINOIS	244	22	7	0	2	5	2	3	2	5	3	4	1	15	5	4	41	2	6	7	1	2	1	12	7	1	4	3	3	0	2	57	0	4	26	6	1	
MADISON	886	75	60	3	11	35	18	4	8	7	11	15	11	21	18	28	205	19	44	36	7	4	1	42	16	13	6	3	11	3	7	127*	0	7	34	31	20	
MICHIANA	445	28	32	6	4	35	5	2	3	14	9	10	13	17	18	11	86	3	6	22	3	6	0	34	15	7	3	9	4	0	3	26	1	5	15	10	8	
MILWAUKEE	1883	107	59*	12	19*	47	10	9	18	34	24*	25	9	100*	71	8*	367*	34*	127*	65*	17	27	7	71*	30	12	15	18	11*	0	11	251*	30	42*	219*	69	15	
MISSOURI SLOPE	69	2	0	0	3	0	0	0	0	0	0	2	0	2	2	0	6	2	2	7	0	0	0	1	0	0	3	0	0	0	1	36*	0	0	2	0	0	
NEBRASKA	722	80	22	9	12	11	9	10	6	13	11	19	11	14	35*	6	127*	8	20	57	2	5	4	17	13	4	8	7	6	13	7	189*	3	2	28	6	8	
NORTHEAST MICHIGAN	331	32	12	0	2	16	0	10	7	4	7	5	2	7	7	9	85	6	9	15	1	9	1	15	6	7	3	5	2	1	2	31	10	1	22	3	9	
NORTHEASTERN WISCONSIN	625	29	14	5	16	10	4	3	4	11	6	13	5	31	18	2	118	8	6	35	2	5	0	40	12	11	8	0	7	3	4	122*	7	5	64	14	12	
RED RIVER VALLEY	253	22	7	5	10	14	3	2	1	3	0	6	2	7	6	3	55	4	16	9	0	1	1	10	5	8	1	5	3	1	1	40	3	1	13	4	3	
ROCK RIVER VALLEY	377	22	11	2	2	16	5	3	11	10	11	15	1	19	23	5	64	5	3	12	7	13	1	36	10	4	4	6	0	2	1	16	1	8	24	25	1	
SIOUXLAND	152	12	4	2	2	3	0	1	0	3	3	3	3	2	4	1	33	2	5	8	0	1	1	2	3	2	2	1	2	0	3	44*	1	2	2	6	1	
SOUTHEASTERN MICHIGAN	4116	410	200*	22	104*	169*	40	144*	30	59	73	100*	81*	94	100	131*	1027*	92*	111	194*	25	39	16	266*	128	37	26	48	91	56*	38	256*	13	32	142*	34	97	
SOUTHERN MINNESOTA	360	56	7	2	7	17	2	4	4	9	3	2	4	8	12	7	132*	8	20	17	4	2	2	12	6	7	2	4	1	2	3	24	0	11	6	6	3	
TOLEDO	374	23	9	2	5	10	2	7	1	6	6	7	10	30*	9	5	79*	5	8	10	0	2	2	26*	15	5	2	0	5	0	2	48*	5	2	36*	12	1	
TWIN CITIES	3533	407	125*	19	47	172*	26	16	62*	36	60	66	44	48	130	150*	957*	74*	205*	187*	20	51	8	144	66	24	46	51*	51	13	35	296*	15	99*	96*	37	57	
WEST MICHIGAN	540	65	18	3	12	15	4	11	9	13	11	19	4	18	17	8	138	6	13	25	4	3	4	31	20	8	4	9	5	2	3	41	6	10	29	8	9	
TOTALS	26996	2632	1088	204	503	1020	243	416	298	557	400	510	397	694	861	588	6451	570	919	1840	175	325	87	1202	597	269	219	308	349	155	220	2817	169	346	1256	458	484	

\*=CHAPTER OR JOINT CHAPTER ESTABLISHED

SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 5	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 11	IE 12	EM 13	ED 14	COMP 15	MTT 16	EMB 17	COM 18	UFFC 19	CHMT 20	OE 21	CS 22	RA 23	E 24	PC 25	EMC 26	SMC 27	GRS 28	SIT 29	PE 30	DEI 31	MAG 32	IA 33	PEL 34	LEO 35	36
ARKANSAS	332	14	9	2	4	4	2	1	0	2	10	3	5	12*	7	2	48*	3	17	20	2	1	2	11	5	4	3	0	2	3	1	99*	3	0	40	3	2	
BEAUMONT	121	9	4	0	1	2	0	2	1	1	6	3	0	3	2	0	24	0	0	3	0	0	1	6	2	2	1	1	1	1	2	27	0	0	20	2	3	
CENTRAL TEXAS	3273	353	133*	10	66	216	27	9	59	33	50	62	49	32	84	243	1166*	66	64	170*	19	70	13	76	64	30	35	52*	39	21	23	138*	10	28	41	24	51*	
CORPUS CHRISTI	248	13	12	0	5	10	4	3	0	2	3	6	1	7	1	4	49*	4	3	11	0	3	1	15	6	2	0	2	4	1	2	66*	1	2	14	4	0	
DALLAS	5132	435	274*	25	178*	280*	44	53*	83*	79	42	220*	55	42	183	300*	1150*	321*	63*	609*	30*	73	19	90	46	25	38	44*	34	37	22	343*	18	26	121*	78	87*	
DENVER	4058	528	156	40	173*	135	32	38*	62*	66	93*	115*	45*	60	125	97	998*	114*	98*	348*	18	27	22	108	71	36	31	87*	35	80*	31	341*	11	76*	142*	54	93	
EL PASO	480	35	13	5	35	22	4	3	5	11	12	22	11	6	6	8	78	25	11	35	0	4	2	21	14	13	3	10	9	12	4	31	1	3	13	5	23	
FORT WORTH	1630	187	60	14	79	47*	11	22	21	27	22	91*	23	23	55	29	399*	57	24*	128	6	12	7	51*	28	17	10	17*	11	18	10	212*	6	6	34	19	34	
GALVESTON BAY	636	118	14	0	19	11	3	4	6	5	9	39	9	5	17	2	226*	14	22	57*	0	3	3*	36	29	3	3	5	14	3	4	30	1	3	23	5	9	
HOUSTON	3547	317	163*	18	75*	134*	33	19	47	44	80	37	62	79	91	80*	865*	76*	102*	260*	20	34	25*	129	58	22	27	27	39	56	29	353*	19	33*	307*	55	49	
KANSAS CITY	1401	138	41	11	29	24	7	16	12	21	30	34	12	24	55	14	294*	30	45	165*	3	9	5	35	18	28	18	9	15	12	15	264*	11	10	57	16	12	
LAFAYETTE	212	11	6	1	2	12	1	1	1	2	2	6	4	4	3	1	88	3	2	20	1	3	0	4	5	2	0	0	3	0	0	26*	0	1	5	0	3	
OKLAHOMA CITY	513	51	24	4	14	15	4	10	8	7	10	15	4	13	23	4	120*	7	15	35	3	4	1	9	10	2	3	5	4	8	5	75*	4	9	24*	8	7	
OZARK	190	10	5	2	4	7	4	1	1	3	4	12	3	9	7	5	36	2	3	8	0	3	0	8	4	4	3	1	5	1	22	0	1	11	5	1		
PANHANDLE	77	5	3	1	1	2	0	0	0	2	2	1	0	3	0	0	9	0	1	2	0	0	1	2	0	1	0	0	1	0	0	36	0	0	9	0	0	
PERMIAN BASIN	63	4	0	2	0	2	2	0	1	0	2	1	1	3	0	2	16	0	0	1	0	4	0	2	2	0	0	1	0	0	0	12	1	0	7	1	0	
PIKES PEAK	1034	127	36	5	33	66*	24	5	22	7	12	52	8	3	31	83*	289*	41	8	100	3	13	3	27	10	15	11	8	12	7	9	28	1	22	11	7	22	
SAINT LOUIS	2495	205	92	15	64*	78	24	19</																														



## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 6	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEL 32	MAG 33	IA 34	PEL 35	LEO 36	
ALAMOGORDO-HOLLOMAN	58	1	1	0	9	2	0	1	2	0	4	8	1	0	3	0	12	4	1	0	0	0	1	4	2	0	0	1	0	0	0	1	1	0	0	0	0	0
ALASKA	329	25	13	6	16	8	2	2	1	6	7	5	1	7	9	1	56	3	7	37	1	0	5	11	6	4	4	1	3	5	8	63	4	0	18	7	2	
ALBUQUERQUE	1383	118	79	7	64	49	110	1	29*	10	35	41	11	7	35	92	242	50	24	47	14	36	3	48	27	12	10	55	19	23	19	65	9	13	15	5	77	
BOISE	293	15	7	5	5	18	1	0	5	6	4	3	1	6	7	35	61	7	0	7	1	11	2	8	4	1	2	3	0	1	1	48	2	8	17	3	3	
BUENAVENTURA (LAC)	1195	115	54*	10	65*	47*	6*	7*	23*	20	22*	84*	12*	8*	39*	73*	249*	116*	16*	78*	9*	16*	7	30*	20	7*	11*	19*	9	3*	5*	26*	3	29*	20*	11	41*	
CHINA LAKE (LAC)	278	40	10*	1	22*	8*	1*	3*	6*	5	4*	29*	2*	3*	6*	4*	72*	23*	2*	14*	1*	3*	1	10*	0	2*	3*	8*	4	1*	1*	11*	2	0*	13*	1	2*	
EASTERN MONTANA	54	4	0	0	0	0	0	0	0	1	1	0	0	1	3	0	7	0	1	3	0	0	0	1	0	1	0	0	0	0	0	26	1	0	7	1	0	
FOOTHILL (LAC)	1336	139	45*	12	49*	45*	13*	11*	24*	17	28*	57*	17*	16*	60*	33*	306*	60*	22*	96*	8*	15*	12	37*	27	17*	7*	25*	11	15*	7*	112*	8	21*	58*	14	31*	
FORT HUACHUCA	132	17	2	1	4	0	0	2	1	2	2	3	1	1	3	0	38	2	0	43	0	1	1	1	1	1	5	4	1	0	1	9	0	0	1	0	1	
HAWAII	540	71	19	3	14	12	5	1	1	10	2	5	10	26	7	9	155	10	14	76	1	1	15	15	3	5	6	3	8	6	3	47	3	4	24	3	11	
IDAHO	179	24	8	1	2	19	5	1	8	2	5	4	1	2	7	12	34	8	1	4	2	5	0	4	4	3	0	2	2	2	1	16	1	1	6	2	4	
LAS VEGAS	251	29	10	4	12	9	8	0	1	3	11	15	3	3	4	5	52	11	5	12	0	1	2	8	3	5	2	5	1	4	1	28*	2	3	5	1	12	
LOS ALAMOS	296	55	11	2	8	8	39	3	2	3	12	3	3	1	6	13	56	16	4	15	3	1	0	8	1	4	6	5	2	3	5	9	3	5	5	3	28*	
METROPOLITAN LOS ANGELES (LAC)	1171	97	71*	10	24*	59*	16*	11*	16*	18	11*	32*	37*	12*	21*	30*	287*	25*	27*	114*	7*	5*	6	43*	27	10*	5*	13*	27	5*	13*	93*	6	11*	37*	7	35*	
MONTANA	174	17	5	0	2	4	1	1	2	3	2	6	2	3	4	2	40	2	3	8	1	1	1	14	4	1	1	1	4	2	1	39	0	2	7	0	5	
NORTHERN NEVADA	250	17	8	1	6	7	2	1	4	3	3	2	1	6	4	6	56	5	11	11	4	6	0	8	9	3	2	0	2	5	3	45	2	4	14	2	4	
OAKLAND-EAST BAY (SFBAC)	4493	578	181	24	78*	291	110	40*	45	69	64	54	53	60	121	227	1125*	134	95	404*	27	65*	30	122	78	17	34	55	44	31*	47*	326*	26	58	205*	55	98*	
ORANGE COUNTY (LAC)	4368	499	220*	22	131*	221*	54*	44*	63*	72	46*	222*	67*	59*	108*	155*	1134*	137*	93*	325*	33*	92*	30	139*	80	26*	21*	65*	54	30*	25*	208*	15	58*	162*	62	95*	
PHOENIX	3249	220	98	16	73*	217*	18	27	74	43	32	121	27*	31	110	298*	737*	153*	41	269*	28	122*	5	93*	27	34	27	37*	25	13	15	254*	16	22	51	33	62*	
PORTLAND	2911	318	90	23	29	177*	14	23	33	49	63*	31	27	56	93*	148*	762*	73*	47*	134*	10*	53*	22	62*	41	20	26	35	18	10	24	405*	13	16	195*	38	51*	
RICHLAND	274	22	7	1	4	8	7	2	3	4	7	8	0	7	11	1	53*	4	4	14	4	1	6	9	11	3	6	1	1	3	4	56*	0	2	17	1	4	
SACRAMENTO	1584	156	67	24	35	100	4	19*	19	46	14	32	21	28	44	42	380*	51	48	146*	5	9	5	52	53	17	8	13	16	9	14	176*	2	7	42	10	26*	
SAN DIEGO	3907	433	259*	36	137*	171	81	34	67	77	58*	146	114	36	124*	142*	879*	136*	81	375*	18	77*	72*	98*	53	17	27	76*	53	29	25	164*	16	62*	37	52	78	
SAN FERNANDO VALLEY (LAC)	2118	225	82*	25	97*	90*	19*	15*	43*	50	33*	151*	41*	24*	70*	36*	463*	139*	52*	132*	9*	30*	12	78*	35	15*	16*	34*	32	17*	16*	88*	4	39*	45*	37	49*	
SAN FRANCISCO (SFBAC)	2195	349	87	34	39*	75	15	31*	12	40	32	33*	19*	40	61	84	528*	88*	62	193*	17	28*	12	52*	31	8	18	25	20*	8	31*	248*	5	27*	131*	26	35*	
SAN GABRIEL VALLEY (LAC)	1422	130	64*	6	66*	56*	19*	6*	15*	22	24*	55*	42*	24*	31*	46*	287*	68*	24*	112*	6*	18*	10	52*	42	6*	11*	11*	28	46*	8*	83*	6	20*	35*	15	58*	
SANTA BARRARA (LAC)	1028	73	85	6	38	47	12	6	16	11	15	45	26	4	15	57	192	60	15	68	7	11	13	35	20	12	9	16	7	19	9	47	2	22	9	11	61	
SANTA CLARA VALLEY (SFBAC)	15720	1668	722*	86	311*	1217	112	84*	265*	319	188*	292*	263*	123	460*	1318*	4551*	705*	242*	1318*	131*	379*	76	319*	204	44	65	166*	167*	22*	127*	332*	40	396*	123	139	303*	
SANTA MONICA BAY (LAC)	1854	194	96*	20	85*	85*	36*	11*	26*	27	23*	108*	60*	19*	41*	95*	405*	116*	54*	165*	9*	21*	10	67*	24	10*	6*	16*	32	23*	29*	25*	2	11*	17*	15	65*	
SEATTLE	4016	515	166	25	142*	167*	26	38	46	60	80	177*	43	62	128	73	955*	94*	148*	249*	33	31	88*	124	59	29	42	74*	45	27	40	390*	12	16	191*	59	77	
SOUTH BAY HARBOR (LAC)	2903	271	151*	16	160*	107*	43*	15*	49*	44	33*	179*	50*	29*	76*	156*	618*	251*	34*	277*	9*	41*	11	99*	45	12*	15*	40*	31	31*	17*	57*	8	31*	59*	40	69*	
SPOKANE	408	35	22	2	9*	22*	2	5	2	6	8	6	12	6	12*	6*	99*	12	7	24	3	2	3	23*	10	6	1	3	2	2	3	66*	1	1	13*	1	6	
TUCSON	804	74	43	2	27*	38	16	2	19	8	8	19	21	4	16	30	183*	29*	32	48*	2	21	2	24	15	9	3	20*	21	11	10	58*	3	16	12	7	25	
UTAH	1163	146	67	16	35	49	4	6	13	19	24	39	35	17	39	35	296	36	52	77	6	13	4	35	24	7	8	16	13	14	7	77	1	10	33	11	25	
VANDENBERG	128	12	3	2	7	4	1	0	0	2	7	8	0	2	2	2	28	10	0	10	1	1	1	4	2	1	0	2	2	1	1	15	1	4	3	0	1	
WENATCHEE	42	2	1	1	0	1	0	0	0	0	0	1	1	0	0	0	2	0	0	1	0	0	0	0	1	1	0	0	0	0	2	25	0	0	5	0	0	
TOTALS	62506	6704	2854	450	1805	3438	802	453	935	1077	915	2029	1041	714	1808	3262	15400	2638	1269	4904	410	1117	468	1737	993	370	425	852	701	491	524	3738	219	919	1632	672	1444	

\*==CHAPTER OR JOINT CHAPTER ESTABLISHED

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 7	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36
CANADIAN ATLANTIC (ECC)	322	19	20	4	9	12	0	4	1	4	3	7	2	7	12	2	61*	6	9	28	3	1	22*	10	7	3	4	3	5	6	4	31*	5	3	21*	0	3
HAMILTON (CCC)	744	28	39	1	17	18*	7	6	3	18	10	19	15*	32	26	16	139*	29	13	53*	4	5	2	23*	15	14	10	3	4	3	5	75*	8*	4	74*	13	21
KINGSTON (CCC)	332	13	17	1	9	15	1	9	2	2	3	9	19	7	7	1	73*	4	7	45	0	0	4	18	14	3	2	2	6	3	5	15	1*	4	12	6	8
KITCHENER-WATERLOO (CCC)	656	30	30*	4	21*	40*	3	2	6	14	3	15	18*	13	19	20*	170*	29*	14	51*	2	0	2	18*	17	2	13	7	22	8	12	22	8*	5	24	11	11
LONDON (CCC)	295	17	15	5	7	8	0	0	2	10	3	6	2	11	4	2	60	4	14	16	2	5	3	11	5	3	5	4	3	3	3	15	1*	4	12	6	8
MONTREAL (ECC)	3124	136	137	31	64*	113*	24	41*	41*	47	61*	71	60*	83*	83*	34	768*	78*	72*	301*	17	22	11	105	86	26	17	33*	47	17	25	282*	46*	18	139*	72	52
N SASKATCHEWAN (WCC)	263	10	10	0	3	9	4	5	3	3	9	11	3	11	6	1	67	4	7	25	1	0	1	10	10	4	1	3	6	3	2	15	2	2	9	6	7
NEW BRUNSWICK (ECC)	251	11	3	4	6	6	1	4	1	8	2	0	3	4	16	0	45	5	9	47	0	0	0	9	1	5	11	4	0	1	6	25	0	0	15	5	5
NEWFOUNDLAND-LABRADOR (ECC)	127	10	7	1	7	7	1	1	1	1	1	1	1	4	3	2	23	3	1	14	0	0	11	3	3	2	1	0	0	2	10	2	1	6	3	2	2
NORTHERN CANADA (WCC)	767	52	11	4	13	25	6	11	8	12	15	9	4	25	24	9	165*	11	12	85	0	5	3	37	22	8	14	2	12	7	8	95*	3	0	74*	13	15
OTTAWA (ECC)	2734	147	130*	17*	84*	129*	12	40	26*	47*	44*	106*	58	23	99*	65*	699*	93*	37	486*	5	29	17	45	44	21	30*	56*	35	24	35	67*	14*	6	31	23	57*
PETERBOROUGH (CCC)	133	3	3	0	2	5	0	1	0	2	3	3	0	8	2	0	23	1	0	7	2	1	0	5	4	2	1	2	0	0	1	21	5	5	20	4	0
QUEBEC (ECC)	349	20	19	3	5	9	0	8	3	2	10	17	9	10	5	1	81*	9	7	32	0	2	1	13	14	5	4	1	5	1	4	22	2	0	15	6	24
S SASKATCHEWAN (WCC)	192	14	11	5	6	3	1	2	0	7	1	4	1	6	9	0	43*	4	4	20	0	0	0	5	4	2	6	1	2	4	2	21*	1	0	15*	3	3
SAINT MAURICE (ECC)	58	0	0	2	1	0	0	1	0	1	5	1	0	5*	0	0	9	2	2	2	0	0	0	0	5	4	2	6	1	2	4	2	2	0	11*	3	2
SOUTHERN ALBERTA (WCC)	1011	54	69	4	15	47	4	23	10	19	19	19	17	29	33	8	252*	20	24	92	0	12	4	36	11	7	13	4	11	21	7	80*	9	0	70*	16	6
TORONTO (CCC)	3980	204	118	56	75	151*	23	82*	37	122*	66*	80*	54	105	133*	46*	988*	70	76	436*	19	23*	16	126	95	27	35	34	46	21	61*	354*	52*	34	175*	75	69*
VANCOUVER (WCC)	1576	102	75	15	32*	32	10	39*	12	35	16	27*	27	39*	41*	18	357*	28	43	180*	4	7	14	57*	38	8	13	12	21	23	13	170*	12*	8	114*	16	20
VICTORIA (WCC)	376	19	32	0	7	19	3	7	1	3	5	5	11	7	10	1	94	10	6	38	1	1	28*	14	16	2	6	0	8	3	4	13	0	1	12	5	3
WINNIPEG (WCC)	666	22	21	8	29*	19	4	13*	6	13	12	11	15	14	17*	7	141*	20*	18*	49*	0	0	0	20	14	5*	17*	14	4	5	13	85*	10	10	37	12	3
TOTALS	17956	911	767	165	412	667	104	299	163	370	291	421	319	443	549	233	4258	430	375	2007	60	114	139	567	421	152	203	186	238	155	211	1439	187	104	897	300	310

\*==CHAPTER OR JOINT CHAPTER ESTABLISHED

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 8	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36	
AUSTRIA	753	66	43	4	14	52	3	15	17	8	24	12	29	14	12	17	206	21	10	76	14	9	0	19	14	8	7	13	18	4	7	16	5	13	8	10	11	
BENELUX	3305	299	171	16	86*	205	34	24	48	62	77	69	107*	44	87	141	874	84*	84	332	21	47	12	137	62	32	27	41	84	33	28	67	16	34	39	26	54	
CENTRAL & SOUTH ITALY	1814	96	116*	26	111*	88	15	18	22*	31	46	64*	73	48	28	37	272	106*	42	164	20	18*	18	75	57	18	14	35	53	29	14	28	9	16	33	27	43	
DENMARK	957	47	69	7	47	60	5	18	19	22	23	17	23	16	13	19	183	59	28	80	13	16	10	34	16	5	8	15	18	12	7	17	7	7	13	17	34	
EGYPT	558	7	22	4	30*	36	4	3	8	8	10	9	8	19	7	17	82*	30*	9	48	3	7	4	34	15	13	3	4	10	6	2	52*	10	4	20	9	8	
FINLAND	860	49	78*	5	28*	59*	9	15	10	24	13	14	24	11	28	12	204*	39*	18	72	7	16	5	33	25	7	9	7	20	17	9	8	4	6	5	6	13	
FRANCE	2877	177	180*	20	97	157	47	30	62	40	64	89	86	49	44	116	474*	129*	51	233*	49	67	28	114	63	29	19	7	72	44	16	97*	40	55	46	37	72	
GERMANY (WEST)	4726	674	283	39	138*	386*	31	53	56	64	109	91	140	72	77	193	1120*	271*	64	409	48	59	20	131	122	39	35	53	86	57	39	115	26	63	58	49	130	
GREECE	1506	47	86	15	39	68	0	14	15	18	20	31	38	46	45	13	341	31	35	183*	4	9	10	93	56	22	4	10	43	15	9	81*	2	9	46	37	18	
HUNGARY	52	1	0	0	1*	6	0	0	0	0	3	0	4	1	0	6*	3	7*	1	6*	0	1	0	0	1	0	0	0	3	0	0	3	0	0	2	1	0	
IRAN	2491	11	120	38	75	206	15	10	17	81	72	64	52	130	16	43	367	77	78	149	23	23	11	152	93	48	20	27	62	14	9	129	23	29	60	107	51	
ISRAEL	1513	95	130	8	52*	65*	10	17	36	23	20	62*	86	34*	40*	40*	292*	60*	30	142*	14	19	2	55*	29	16	11	20*	35	11	7	32*	10	17	28*	23	37	
KENYA	186	4	3	0	5	8	0	0	2	8	9	3	1	9	12	3	34	3	2	26	0	1	0	5	2	4	0	0	2	2	0	19	4	1	9	7	2	
KUWAIT	194	10	7	2	4	8	2	1	1	2	4	1	3	2	9	3	50	2	3	15	0	0	1	7	6	1	2	2	0	0	3	28	1	0	6	7	5	
MOSCOW	65	2	2	0	2	1	1	0	0	0	0	0	2	0	0	0	52*	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	
NIGERIA	139	2	1	2	3	10	0	0	2	10	4	1	0	7	6	1	26	4	2	22	0	5	1	4	2	2	1	1	0	0	0	0	0	0	0	1	1	0
NORTH ITALY	2414	131	111	19	53*	136*	21	32	48*	32	71*	48	55</																									

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 9	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36
ARGENTINA	916	22	40	10	20	48	3	9	5	20	27	17	26	48	21*	8	207*	6	32	70*	4	8	7	60	29	14	7	6	19	6	9	52*	3	8	32	29	6
BAHIA (BC)	145	2	3	1	2	5	2	0	4	0	8	0	5	5	4	3	22	2	2	10	0	0	1	7	2	6	1	0	2	2	0	23*	3	1	13*	5	1
BRASILIA (BC)	124	0	11	1	4	7	2	0	3	0	2	0	3	4	1	4	22	3	2	5	0	1	2	6	6	4	0	1	2	3	0	14	1	2	3	1	4
CHILE	638	9	6	4	10	13	2	4	1	4	14	8	5	19*	16	1	253*	4	8	70*	1	0	3	41*	19*	3	2	1	7*	1	1	55*	3	1	36*	17*	5
COLOMBIA	707	12	8	9	12	10	1	3	4	16	16	10	4	27	16	3	158	3	29	58	1	3	5	61	35	14	3	2	14	3	4	81	5	4	44	28	13
COSTA RICA (CAPC)	133	2	2	3	5	7	1	1	2	1	2	2	0	2	5	1	23	2	3	12	0	2	2	8	2	1	2	0	0	2	2	22*	5	0	6	3	2
ECUADOR	110	2	1	1	2	3	2	1	0	2	4	3	2	8	1	0	19	3	4	7	0	0	0	4	1	1	0	0	2	1	1	12	1	1	14	7	2
EL SALVADOR (CAPC)	123	1	0	2	2	2	0	1	0	2	1	1	0	5	8*	0	32*	0	3	17*	0	1	1	1	2	3	3	0	0	1	0	17*	1	0	13*	2	2
GUADAJARA	168	2	6	0	3	5	1	3	2	5	6	3	2	16	3	23	1	8	12	0	1	0	10	4	3	0	2	2	0	2	9	2	2	7	5	4	
GUATEMALA (CAPC)	163	0	2	2	2	2	1	1	0	2	1	1	1	5	18	0	36*	0	1	40*	0	3	1	3	6	2	0	0	1	0	1	21*	0	0	6	3	1
HONDURAS (CAPC)	29	2	0	0	3	0	0	0	0	0	0	0	1	0	4	0	0	2	1	6	0	0	0	0	0	0	2	1	0	0	5*	1	0	2	1	0	
MEXICO (MC)	1406	26	37	9	34	62	8	17	12	21	44	35	21	47*	35*	4	262*	18	42	154*	2	8	6	72*	62	21*	11*	11	34*	3	5	136*	26	11	64*	40	32
MONTERREY (MC)	499	3	9	3	15	16	3	7	1	10	16	10	3	17	14	0	151	9	5	34	0	0	2	25	23	4	3	0	8	2	0	50*	10	2	22	15	10
MORELOS	201	1	3	2	2	3	4	1	2	2	5	3	2	4	3	1	39	2	2	10	1	1	1	11	8	2	9*	1	6	4	3	36*	4	9	7	5	3
PANAMA (CAPC)	307	2	15	5	15	13	1	4	0	4	3	2	3	5	18	1	74*	2	5	32	1	0	2	3	13	5	2	0	3	3	5	41*	1	0	20*	4	2
PERU	240	1	1	5	5	10	1	0	1	1	5	2	3	10	13	1	56*	5	1	27*	0	0	0	8	7	7	2	2	4	4	0	25*	1	3	21	7	2
PUERTO RICO & CARIBBEAN (CC)	627	21	9	19	13	16	0	2	3	18	9	9	8	10	61*	2	118*	7	10	79*	1	5	4	18	13	13	10	2	2	4	9	103*	4	1	32	9	4
RIO DE JANEIRO (BC)	515	13	29	8	13*	49*	4	0	6	7	14	2	9	15	12	5*	77*	15*	8	31	3	2	7	23	15	4	4	1	7	3	2	71*	5	3	30*	23	8
SOUTH BRAZIL (BC)	861	23	30	7	19	56	3	6	11	16	20	15	12	29	25*	21	150*	22*	10*	50	4	14	5	39*	24	19	8	8	15	1	8	95*	11	10	42*	37	19
URUGUAY	349	8	17	3	7	16	2	4	0	4	10*	4	7	15	5	1	67*	3	17	42*	1	0	2	26	19	1	3	1	5	1	1	27*	2	3	10	17	6
VENEZUELAN	748	11	34	15	21	42	0	8	5	22	16	11	7	24	15	7	156*	26*	20	84*	0	2	1	40	20	14	4	1	12	2	6	73*	5	3	33	14	5
WESTERN PUERTO RICO (CC)	131	5	5	2	2	6	0	0	2	2	3	3	1	4	2	2	38*	2	2	10	0	0	0	6	4	9	1	1	1	2	1	8	0	0	4	5	3
MEMBERS OUTSIDE SECTIONS	78	6	0	2	2	2	0	0	0	1	0	0	2	1	7	0	18	1	1	11	0	0	1	2	0	1	0	0	2	0	2	16	0	0	1	4	1
TOTALS	9218	174	268	113	213	393	41	72	64	160	226	141	127	320	320	68	2001	138	216	871	19	51	53	474	314	151	77	41	148	48	62	992	94	64	462	281	135

\*=-CHAPTER OR JOINT CHAPTER ESTABLISHED

## SECTION C

TABLE 3 - SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY SOCIETY - 1990

REGION 10	TOTAL SOCIETY MEMBERSHIPS	TOTAL AFFILIATES	SP 1	BT 2	AP 3	CAS 4	NPS 5	VT 6	R 7	CE 8	IM 9	AES 10	IT 12	IE 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	UFFC 20	CHMT 21	OE 22	CS 23	RA 24	E 25	PC 26	EMC 27	SMC 28	GRS 29	SIT 30	PE 31	DEI 32	MAG 33	IA 34	PEL 35	LEO 36
AUST CAPITOL TERR(ACT) (AUSC)	305	50	26	5	10	13	1	2	1	10	5	11	9	1	9	4	77	4	2	46	1	2	3	15	5	4	3	2	6	6	6	3	0	2	3	1	7
BANGALORE (IC)	453	6	17	0	12	16	1*	1	8	5	13	5*	11	21*	10*	5*	145*	10*	2	31*	2	3	1	19	11	6	6	7	7	0	3	29*	3	4	16*	17	6
BEIJING	619	9	37*	8	20	47*	3	8	11	11	16	15	12*	11	10	22	61*	41*	15	64	5	23*	1	12	9	6	4	23*	10	5	2	47*	9	10	21	6	14
BOMBAY (IC)	896	21	21	2	6	26	4*	5	7	16	30	9*	10	40*	24*	10*	300*	7*	62	77*	2	15	1	20*	16	9	6	6	12	2	5	47*	11	15	39*	26	8
CALCUTTA (IC)	284	1	7	0	12	12	4*	2	3	3	13	2*	3	9*	7*	9*	73*	10*	4	17*	2	1	1	6	4	3	0	3	4	2	2	33*	4	1	11*	9	8
DELHI (IC)	644	5	19	1	5	32*	1*	1	10	21	18	3*	5	15*	17*	22*	211*	18*	4	66*	1	7	2	17*	7	5	2	5	6	1	4	72*	7	9	18*	9	3
GUJARAT (IC)	179	1	0	0	1	3	2	0	2	5	8	1	1	15	5	0	43*	2	0	12	1	5	0	7	6	0	1	1	0	1	1	14	6	2	20	12	2
HONG KONG	2203	64	93	24	32	108*	6	23	23	105	37	31	31	48	77	33	752*	42	15	329*	4	25	1	34	38	14	19	12	21	6	9	104*	8	6	32*	34	27
HYDERABAD (IC)	234	11	8	1	8	5	2*	1	4	2	8	4*	3	8*	5*	4*	80*	9*	2	16*	2	2	0	4	2	3	5	2	4	2	0	18*	2	3	8*	6	1
INDONESIA	511	5	14	7*	17*	21	1	6	4	7	22	8*	12	21	34	3	106*	8*	5	58*	1	7	1	21	11	16	10	5	4	2	6	21	3	2	24	12	11
KARACHI	106	1	0	0	5	1	0	1	0	0	4	1	0	6	5	1	31	0	4	13	0	0	0	4	1	1	1	0	1	1	0	17	0	0	2	5	1
KERALA (IC)	226	2	4	0	5	5	0	0	4	5	3	1*	3	8*	16	2*	89*	3	8	11*	1	2	1	4	4	1	2	1	2	1	3	17*	1	0	9*	7	3
KHARAGPUR (IC)	64	0	2	0	5	3	0	0	3	1	0	0	2	0*	0	8*	18*	5*	0	4*	0	0	0	6	0	2	0	0	0	0	0	1*	0	0	1*	2	1
KOREA	5545	69	423*	49	131	389*	40	63	70	106	81	128	199	174	46	250*	848*	168*	87	479	62	47	19	329	248	49	28	61	223	43	17	119	65	91	142	113	158
MADRAS (IC)	466	5	16	5	5	11	1*	5	2	15	11	6*	3	18*	22*	6*	133*	7*	19	32*	3	6	3	12	6	4	4	2	4	2	2	44*	5	5	25*	15	7
MALAYSIA	436	12	14	2	9	19	0	2	17	5	11	3	4	14	24	15	105	8	3	46	0	15	0	16	10	8	3	1	4	2	2	45	2	2	8	11	6
NEW SOUTH WALES (AUSC)	2268	118	117*	11	64*	87	6	15	28	50	45	48	36	61	93	29	583*	51*	52	298*	16	11	13	76	39	25	40	16	28	15	27	96*	13	13	68	56	42
NEW ZEALAND NORTH (NZC)	217	10	15	3	12	4	0	4	0	2	4	0	6	6	4	0	74*	2	3	24	0	2	2	4	4	0	1	1	2	1	6	10	1	1	13*	4	2
NEW ZEALAND SOUTH (NZC)	282	16	15	1	12	5	1	5	2	3	4	0	8	6	15	1	68	3	12	56	0	3	1	5	4	2	5	1	4	1	4	16	1	0	11	6	1
PAKISTAN	144	1	3	2	6	1	1	0	1	1	3	7	4	4	6	0	35	4	2	19	0	0	0	3	3	0	1	2	1	2	0	26	1	0	2	2	2
QUEENSLAND (AUSC)	791	41	35	6	25	35	2	10	10	19	14	18	11	31	33	8	185	20	13	80	1	1	3	3													

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 1										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
BERKSHIRE	117	87	24	5	1	0	1	0	0	0
BINGHAMTON	322	327	84	33	13	5	1	0	0	0
BOSTON (CNEC)	3712	4357	1646	622	229	94	119	1	1	1
BUFFALO	559	363	124	42	26	11	6	0	0	0
CONNECTICUT	1980	1365	509	196	74	34	28	0	0	0
ITHACA	114	143	73	24	11	2	4	0	0	0
LONG ISLAND (METSAC)	2262	1163	405	146	43	19	30	3	2	0
MAINE (CNEC)	318	176	49	28	7	4	7	0	0	0
MID-HUDSON	579	626	171	43	12	6	5	0	0	0
MOHAWK VALLEY	305	212	79	39	17	2	13	1	0	0
NEW HAMPSHIRE (CNEC)	676	747	209	76	34	9	13	0	0	0
NEW JERSEY COAST	1188	1145	428	129	49	15	20	2	0	0
NEW YORK (METSAC)	3050	2246	856	312	110	43	63	2	0	2
NORTH JERSEY (METSAC)	2623	1917	758	237	92	37	31	1	0	0
PRINCETON (METSAC)	1213	1145	427	162	53	21	24	0	0	0
PROVIDENCE (CNEC)	713	540	220	59	30	10	10	0	0	0
ROCHESTER	660	689	173	65	22	5	10	2	0	0
SCHENECTADY	477	595	219	83	35	16	12	1	1	0
SPRINGFIELD	208	198	83	45	16	5	4	0	0	0
SYRACUSE	371	403	150	47	19	5	6	0	0	0
VERMONT	241	265	66	19	8	0	3	0	0	0
WORCESTER COUNTY (CNEC)	400	488	153	59	17	7	5	0	0	0
<b>TOTAL REGION 1</b>	<b>22088</b>	<b>19197</b>	<b>6906</b>	<b>2471</b>	<b>918</b>	<b>350</b>	<b>415</b>	<b>13</b>	<b>4</b>	<b>3</b>

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 2										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AKRON	262	243	82	25	10	3	4	2	0	0
ALLEGHENY MOUNTAIN	41	19	6	4	2	1	0	0	0	0
BALTIMORE	1866	1635	593	200	75	29	33	0	0	0
CANTON	138	59	33	10	4	1	1	0	0	0
CENTRAL PENNSYLVANIA	367	273	96	31	11	4	5	0	0	0
CINCINNATI	489	316	126	39	14	7	9	0	0	0
CLEVELAND	848	600	244	87	21	16	20	0	0	0
COLUMBUS	804	685	250	86	32	17	16	0	0	0
DAYTON	706	534	237	78	26	11	13	0	0	0
DELAWARE BAY	204	213	86	31	12	2	2	0	0	0
EASTERN SHORE	113	44	15	3	1	0	0	0	0	0
ERIE	146	53	35	11	4	2	1	0	0	0
JOHNSTOWN	112	59	15	5	3	0	1	0	0	0
LEHIGH VALLEY	812	607	211	64	19	7	10	0	0	0
LIMA	114	31	11	3	1	0	1	0	0	0
NORTH CENTRAL OHIO	45	21	13	4	1	1	0	0	0	0
NORTHERN VIRGINIA (NCAC)	2146	2270	939	316	145	64	75	0	0	0
OHIO VALLEY	60	24	7	2	1	0	0	0	0	0
PHILADELPHIA	2798	2101	765	279	115	46	49	0	0	1
PITTSBURGH	1158	1133	411	134	53	21	19	0	0	0
SHARON	159	57	35	3	4	1	0	0	0	0
SOUTHERN NEW JERSEY	119	69	25	6	2	3	0	0	0	0
SUSQUEHANNA	439	219	79	23	14	4	5	0	0	0
WASHINGTON (NCAC)	2620	2651	959	334	134	56	53	2	1	1
WEST VIRGINIA	118	43	18	6	2	1	1	0	0	0
<b>TOTAL REGION 2</b>	<b>16684</b>	<b>13959</b>	<b>5291</b>	<b>1784</b>	<b>706</b>	<b>297</b>	<b>318</b>	<b>4</b>	<b>1</b>	<b>2</b>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 3										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ALABAMA	667	493	130	49	15	9	6	0	0	0
ATLANTA	1625	1526	599	209	93	33	26	0	0	0
BATON ROUGE	202	119	48	14	6	3	0	0	0	0
BROWARD (FC)	374	275	90	26	18	5	8	0	0	0
CANAVERAL (FC)	190	91	34	14	3	3	1	0	0	0
CENTRAL GEORGIA	174	112	44	9	3	2	0	0	0	0
CENTRAL NORTH CAROLINA (NCC)	217	96	38	14	2	1	2	0	0	0
CENTRAL SAVANNAH RIVER (SCC)	154	96	27	8	5	0	1	0	0	0
CENTRAL VIRGINIA (VC)	287	224	77	41	14	6	7	0	0	0
CHARLOTTE (NCC)	442	350	105	19	10	2	1	0	0	0
CHATTANOOGA (TC)	212	153	32	3	5	1	0	0	0	0
COASTAL SOUTH CAROLINA (SCC)	242	119	44	13	7	5	2	0	0	0
COLUMBIA (SCC)	273	181	50	15	6	3	1	0	0	0
DAYTONA (FC)	143	71	23	6	1	0	1	0	0	0
EAST TENNESSEE (TC)	482	255	83	36	12	5	3	0	0	0
EASTERN NORTH CAROLINA (NCC)	1197	1127	364	118	44	17	12	0	0	0
EVANSVILLE-OWENSBORO	267	97	36	8	5	1	1	0	0	0
FLORIDA WEST COAST (FC)	1140	847	215	61	27	16	8	0	1	0
GAINESVILLE (FC)	178	185	60	29	10	6	4	0	0	0
HAMPTON ROADS (VC)	532	307	115	33	9	5	8	0	0	0
HUNTSVILLE	751	551	196	84	34	10	9	2	0	0
JACKSONVILLE (FC)	207	105	39	10	6	1	2	0	0	0
JAMAICA	31	31	32	20	6	7	3	0	0	0
LEXINGTON	198	119	54	15	6	4	2	0	0	0
LOUISVILLE	380	128	37	14	8	0	1	0	0	0
MEMPHIS (TC)	334	168	60	19	8	7	6	1	0	0
MIAMI (FC)	553	360	108	36	17	5	10	0	0	0
MIDDLE TENNESSEE (TC)	53	37	16	7	0	0	0	0	0	0
MISSISSIPPI	238	204	53	16	8	1	4	0	0	0
MOBILE	164	76	25	4	3	2	1	0	0	0
NASHVILLE (TC)	353	221	78	30	16	6	6	0	0	0
NEW ORLEANS	416	323	100	26	11	5	2	0	0	1
NORTHWEST FLORIDA (FC)	230	113	56	15	4	1	3	0	0	0
OAK RIDGE (TC)	103	82	25	7	2	2	0	0	0	0
ORLANDO (FC)	634	455	162	47	13	9	6	1	0	0
PALM BEACH (FC)	626	400	133	31	19	6	4	0	0	0
PIEDMONT (SCC)	364	201	73	20	10	6	3	0	0	0
RICHMOND (VC)	333	257	85	34	7	4	4	0	0	0
SAVANNAH	65	31	5	6	1	0	0	0	0	0
SO BREVARD INDIAN RIVER (FC)	479	401	150	49	12	6	6	0	0	0
TALLAHASSEE AREA (FC)	209	108	32	12	5	0	3	0	0	0
TRI CITIES (TC)	128	81	30	16	3	1	1	0	0	0
VIRGINIA MOUNTAIN (VC)	354	252	106	39	12	5	2	0	0	0
WESTERN NORTH CAROLINA (NCC)	134	81	24	5	2	1	0	0	1	0
WINSTON-SALEM (NCC)	110	54	15	7	1	2	0	0	0	0
<b>TOTAL REGION 3</b>	<b>16445</b>	<b>11563</b>	<b>3908</b>	<b>1294</b>	<b>509</b>	<b>214</b>	<b>170</b>	<b>4</b>	<b>2</b>	<b>1</b>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 4										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARROWHEAD	142	115	23	6	3	1	0	0	0	0
CALUMET	286	173	54	25	5	4	5	0	0	0
CEDAR RAPIDS	219	150	57	16	7	6	2	0	0	0
CENTRAL ILLINOIS	278	421	162	63	15	4	7	0	0	0
CENTRAL INDIANA	943	891	306	120	55	15	15	0	0	0
CENTRAL IOWA	376	197	57	21	8	0	5	0	0	0
CHICAGO	2700	2501	958	354	135	55	47	1	0	0
FORT WAYNE	303	142	60	19	13	7	2	0	0	0
ILLINOIS VALLEY	147	75	28	10	6	1	2	0	0	0
IOWA-ILLINOIS	126	94	24	8	2	2	8	0	0	0
MADISON	238	355	133	46	15	3	7	0	0	0
MICHIANA	197	125	48	35	9	8	5	0	0	0
MILWAUKEE	767	737	241	89	37	21	19	0	0	0
MISSOURI SLOPE	35	36	11	2	0	1	0	0	0	0
NEBRASKA	430	270	110	35	11	7	4	1	0	0
NORTHEAST MICHIGAN	231	132	47	11	8	4	3	0	0	0
NORTHEASTERN WISCONSIN	339	286	81	27	12	4	4	0	0	0
RED RIVER VALLEY	169	111	26	9	7	2	4	0	0	0
ROCK RIVER VALLEY	159	116	46	24	7	4	4	1	0	0
SIOUXLAND	157	57	24	9	5	0	0	0	0	0
SOUTHEASTERN MICHIGAN	1722	1466	588	234	92	29	33	1	0	0
SOUTHERN MINNESOTA	189	175	48	10	7	3	2	0	0	0
TOLEDO	291	151	42	30	5	3	2	0	0	0
TWIN CITIES	1146	1380	521	152	62	33	26	2	0	0
WEST MICHIGAN	406	218	72	25	10	3	2	0	1	0
<u>TOTAL REGION 4</u>	<u>11996</u>	<u>10374</u>	<u>3767</u>	<u>1380</u>	<u>536</u>	<u>220</u>	<u>208</u>	<u>6</u>	<u>1</u>	<u>0</u>

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 5										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARKANSAS	278	153	44	16	4	1	3	0	0	0
BEAUMONT	166	52	15	7	3	0	1	0	0	0
CENTRAL TEXAS	1002	1454	379	132	71	30	28	1	0	0
CORPUS CHRISTI	185	95	38	12	3	3	2	0	0	0
DALLAS	1773	2106	750	228	99	38	31	1	0	0
DENVER	1618	1561	597	192	79	33	34	0	0	0
EL PASO	384	139	66	34	10	5	6	0	0	0
FORT WORTH	720	676	246	71	28	13	10	0	0	0
GALVESTON BAY	386	304	96	29	8	3	1	0	0	0
HOUSTON	1641	1401	487	198	69	22	25	0	0	0
KANSAS CITY	900	561	203	63	22	11	13	0	0	0
LAFAYETTE	139	102	26	8	3	0	2	0	0	0
OKLAHOMA CITY	330	199	76	28	9	5	2	0	0	0
OZARK	142	69	27	11	4	1	1	0	0	0
PANHANDLE	91	45	8	3	0	0	1	0	0	0
PERMIAN BASIN	46	28	5	4	2	1	0	0	0	0
PIKES PEAK	438	414	158	59	15	3	7	0	0	0
SAINT LOUIS	1386	1000	358	143	44	11	13	1	0	0
SHREVEPORT	211	91	35	5	7	3	0	0	0	0
SOUTH PLAINS	211	69	28	11	5	0	2	0	0	0
TULSA	373	212	78	32	14	4	8	0	0	0
WICHITA	205	147	54	11	4	3	2	0	0	0
<u>TOTAL REGION 5</u>	<u>12625</u>	<u>10878</u>	<u>3774</u>	<u>1297</u>	<u>503</u>	<u>190</u>	<u>192</u>	<u>3</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, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 6										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ALAMOGORDO-HOLLOMAN	27	14	8	3	2	1	1	0	0	0
ALASKA	138	107	37	23	8	4	4	0	0	0
ALBUQUERQUE	558	535	191	76	27	8	10	1	0	0
BOISE	120	149	40	10	4	0	3	0	0	0
BUENAVENTURA (LAC)	538	421	182	59	25	6	11	0	1	0
CHINA LAKE (LAC)	149	113	44	12	3	1	1	1	0	0
EASTERN MONTANA	49	24	10	2	1	0	0	0	0	0
FOOTHILL (LAC)	708	553	168	74	24	13	9	0	0	0
FORT HUACHUCA	91	58	25	5	1	1	0	0	0	0
HAWAII	430	221	78	18	15	4	4	0	0	0
IDAHO	95	60	21	9	4	0	2	1	0	0
LAS VEGAS	138	100	29	10	6	6	1	0	0	0
LOS ALAMOS	144	110	36	10	9	3	5	0	0	0
METROPOLITAN LOS ANGELES (LAC)	419	378	172	61	28	17	9	0	0	0
MONTANA	116	81	28	6	3	0	1	0	0	0
NORTHERN NEVADA	166	106	34	14	3	2	2	0	0	0
OAKLAND-EAST BAY (SFBAC)	1239	1731	650	216	95	28	37	2	0	0
ORANGE COUNTY (LAC)	1949	1653	596	226	92	31	36	1	0	1
PHOENIX	1440	1374	457	156	53	13	21	0	1	1
PORTLAND	968	1252	388	136	41	13	23	1	0	2
RICHLAND	174	100	31	23	5	2	2	0	0	0
SACRAMENTO	757	661	209	71	31	11	17	0	0	0
SAN DIEGO	1422	1312	506	217	93	34	48	2	0	0
SAN FERNANDO VALLEY (LAC)	974	745	292	112	45	19	17	1	0	1
SAN FRANCISCO (SFBAC)	745	875	285	109	47	16	18	1	0	0
SAN GABRIEL VALLEY (LAC)	470	463	210	78	29	12	16	0	0	0
SANTA BARBARA (LAC)	380	326	161	54	30	7	8	0	0	0
SANTA CLARA VALLEY (SFBAC)	3401	6041	2176	787	317	106	134	4	2	1
SANTA MONICA BAY (LAC)	525	547	274	103	37	26	20	1	0	0
SEATTLE	1470	1613	557	221	67	34	27	0	0	0
SOUTH BAY HARBOR (LAC)	1046	972	433	148	66	23	33	0	0	0
SPOKANE	314	170	51	25	9	2	2	0	0	0
TUCSON	341	312	105	47	16	3	9	0	0	0
UTAH	550	431	165	66	21	7	11	0	0	0
VANDENBERG	79	54	23	5	2	1	0	0	0	0
WENATCHEE	47	31	4	1	0	0	0	0	0	0
<u>TOTAL REGION 6</u>	<u>22177</u>	<u>23693</u>	<u>8676</u>	<u>3193</u>	<u>1259</u>	<u>454</u>	<u>542</u>	<u>16</u>	<u>4</u>	<u>6</u>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 7										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
CANADIAN ATLANTIC (ECC)	141	80	50	17	10	0	7	0	0	0
HAMILTON (CCC)	435	232	112	37	23	8	7	0	0	0
KINGSTON (CCC)	158	98	42	28	8	3	3	0	0	0
KITCHENER-WATERLOO (CCC)	161	217	98	32	16	6	6	0	0	0
LONDON (CCC)	150	100	41	11	7	3	5	0	0	0
MONTREAL (ECC)	964	986	408	173	89	30	30	2	0	1
N SASKATCHEWAN (WCC)	149	63	28	16	6	6	5	0	0	0
NEW BRUNSWICK (ECC)	143	83	39	16	5	3	1	0	0	0
NEWFOUNDLAND-LABRADOR (ECC)	84	28	20	10	6	1	0	0	0	0
NORTHERN CANADA (WCC)	232	215	135	41	19	7	7	0	0	0
OTTAWA (ECC)	790	880	407	156	66	21	23	2	0	0
PETERBOROUGH (CCC)	50	35	21	3	5	3	2	0	0	0
QUEBEC (ECC)	235	118	39	19	9	4	6	0	0	0
S SASKATCHEWAN(WCC)	96	45	21	16	5	5	2	0	0	0
SAINT MAURICE (ECC)	40	13	8	4	3	1	0	0	0	0
SOUTHERN ALBERTA (WCC)	317	283	146	51	25	13	15	0	0	0
TORONTO (CCC)	1501	1257	533	212	95	46	52	2	0	0
VANCOUVER (WCC)	576	515	226	80	34	14	19	1	0	0
VICTORIA (WCC)	107	115	48	24	6	5	7	0	0	0
WINNIPEG (WCC)	326	193	99	33	18	9	8	0	0	0
<u>TOTAL REGION 7</u>	<u>6655</u>	<u>5556</u>	<u>2521</u>	<u>979</u>	<u>455</u>	<u>188</u>	<u>205</u>	<u>7</u>	<u>0</u>	<u>1</u>

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 8										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AUSTRIA	25	152	66	40	20	18	21	0	0	0
BENELUX	581	952	372	187	52	37	65	6	0	0
CENTRAL & SOUTH ITALY	104	254	140	83	52	25	53	7	2	1
DENMARK	48	187	92	38	34	22	26	0	0	0
EGYPT	31	130	57	35	16	8	6	1	0	1
FINLAND	54	167	98	52	16	15	26	1	0	0
FRANCE	219	546	258	120	78	35	75	8	1	3
GERMANY (WEST)	338	1229	541	254	118	63	95	7	1	0
GREECE	134	267	193	93	62	18	28	2	0	0
HUNGARY	60	30	6	1	0	0	1	0	0	0
IRAN	80	175	117	95	96	77	116	6	0	0
ISRAEL	244	380	162	88	26	16	30	2	3	0
KENYA	42	37	16	12	5	3	6	0	0	0
KUWAIT	145	56	24	17	7	1	1	0	0	0
MOSCOW	6	57	1	2	0	0	0	0	0	0
NIGERIA	37	41	19	12	6	0	0	0	0	0
NORTH ITALY	291	476	231	122	57	36	63	5	2	2
NORWAY	30	145	73	36	21	16	28	0	0	0
POLAND	19	88	32	9	10	3	3	0	0	0
PORTUGAL	85	151	83	39	20	9	14	1	0	0
ROMANIA	43	18	5	3	2	0	1	0	0	0
SAUDI ARABIA	152	224	126	67	37	11	25	0	0	0
SOUTH AFRICA	79	175	101	60	27	17	26	0	0	0
SPAIN	184	566	290	176	98	56	106	5	2	2
SWEDEN	64	336	197	92	42	22	64	4	0	0
SWITZERLAND	309	702	338	155	58	31	49	0	0	0
TURKEY	109	119	80	45	18	20	18	1	0	0
UNITED ARAB EMIRATES	63	65	24	13	3	5	2	0	0	0
UNITED KINGDOM & REP IRELAND	871	1592	737	335	131	63	59	2	0	0
WESTERN SAUDI ARABIA	50	56	27	17	5	5	4	0	0	0
YUGOSLAV	23	184	141	61	36	25	12	0	0	0
COUNTRIES OUTSIDE SECTIONS	133	180	97	54	28	11	19	2	0	0
<u>TOTAL REGION 8</u>	<u>4653</u>	<u>9737</u>	<u>4744</u>	<u>2413</u>	<u>1180</u>	<u>668</u>	<u>1042</u>	<u>60</u>	<u>11</u>	<u>9</u>



## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1990

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 9										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARGENTINA	160	223	70	48	25	13	31	0	0	0
BAHIA (BC)	18	37	17	11	5	1	2	0	0	0
BRASILIA (BC)	25	30	17	9	3	0	2	0	0	0
CHILE	331	304	77	26	12	6	4	0	0	0
COLOMBIA	155	207	93	53	16	8	7	0	0	0
COSTA RICA (CAPC)	53	45	12	8	4	0	3	0	0	0
ECUADOR	12	22	16	4	4	2	3	0	0	0
EL SALVADOR (CAPC)	117	69	7	6	3	2	0	0	0	0
GUADALAJARA	15	19	16	13	8	2	4	0	0	0
GUATEMALA (CAPC)	212	101	12	5	3	1	1	0	0	0
HONDURAS (CAPC)	44	4	7	2	0	1	0	0	0	0
MEXICO (MC)	752	431	176	65	33	19	24	0	0	0
MONTERREY (MC)	351	188	43	24	14	5	10	0	0	0
MORELOS	40	77	17	6	2	3	5	0	0	0
PANAMA (CAPC)	233	111	51	19	8	1	0	0	0	0
PERU	67	52	39	13	6	3	2	1	0	0
PUERTO RICO & CARIBBEAN (CC)	388	203	88	29	14	3	12	0	0	0
RIO DE JANEIRO (BC)	32	122	77	30	7	5	12	0	0	0
SOUTH BRAZIL (BC)	78	218	89	55	21	11	21	0	0	0
URUGUAY	57	89	41	24	17	4	3	0	0	0
VENEZUELAN	313	196	101	46	18	7	15	0	0	0
WESTERN PUERTO RICO (CC)	233	56	14	9	2	1	1	0	0	0
COUNTRIES OUTSIDE SECTIONS	18	26	9	8	1	0	1	0	0	0
<u>TOTAL REGION 9</u>	<u>3704</u>	<u>2830</u>	<u>1089</u>	<u>513</u>	<u>226</u>	<u>98</u>	<u>163</u>	<u>1</u>	<u>0</u>	<u>0</u>

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)	21	67	39	22	7	4	7	0	0	0
BANGALORE (IC)	379	191	43	12	3	1	13	0	0	0
BEIJING	132	331	50	16	6	1	4	4	0	0
BOMBAY (IC)	421	418	70	33	9	9	14	2	0	0
CALCUTTA (IC)	95	134	39	11	7	1	1	0	0	0
DELHI (IC)	386	328	73	24	5	4	7	0	0	0
GUJARAT (IC)	124	60	17	4	7	3	4	0	0	0
HONG KONG	653	703	289	126	52	15	30	1	0	0
HYDERABAD (IC)	315	110	23	3	0	1	4	1	0	0
INDONESIA	49	88	54	27	16	6	16	1	0	0
KARACHI	87	46	7	4	4	1	2	0	0	0
KERALA (IC)	557	118	34	7	3	0	1	0	0	0
KHARAGPUR (IC)	21	40	9	2	0	0	0	0	0	0
KOREA	151	682	549	323	169	100	139	13	2	6
MADRAS (IC)	1339	214	61	15	3	1	5	0	1	0
MALAYSIA	130	119	78	26	10	4	3	0	0	0
NEW SOUTH WALES (AUSC)	282	484	262	148	80	37	41	0	0	0
NEW ZEALAND NORTH (NZC)	46	75	31	13	9	1	0	0	0	0
NEW ZEALAND SOUTH (NZC)	57	75	35	20	7	2	3	1	0	0
PAKISTAN	93	57	21	8	4	1	0	0	0	0
QUEENSLAND (AUSC)	177	169	104	52	23	20	9	0	0	0
REPUBLIC OF THE PHILIPPINES	79	49	20	6	5	1	3	0	0	0
SINGAPORE	1034	632	250	69	41	20	21	0	0	0
SOUTH AUSTRALIA (AUSC)	161	81	69	34	15	13	13	0	0	0
TAIPEI	113	463	264	145	77	36	56	2	0	0
THAILAND	54	84	45	15	8	9	15	2	0	2
TOKYO	474	3214	1597	623	315	138	262	15	5	7
VICTORIAN (AUSC)	147	383	236	99	53	33	34	1	0	0
WESTERN AUSTRALIA (AUSC)	109	138	66	26	14	4	7	0	0	0
COUNTRIES OUTSIDE SECTIONS	80	104	35	14	5	2	1	0	0	0
<u>TOTAL REGION 10</u>	<u>7766</u>	<u>9657</u>	<u>4470</u>	<u>1927</u>	<u>957</u>	<u>468</u>	<u>715</u>	<u>43</u>	<u>8</u>	<u>15</u>

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>	<u>Section/Council Location</u>	<u>Section/Council Location</u>
AES-10	Aerospace & Electronic Systems	31	Atlanta Binghamton Central New Eng- land Council Central & South Italy Dallas Dayton Denver Fort Worth Huntsville India Council	Indonesia Israel Los Angeles Council Long Island Mohawk Valley New Jersey Coast New South Wales Orange County Orlando Ottawa Philadelphia	Poland Rochester Santa Clara Valley/ San Francisco Seattle Southeastern Michigan Spain Toronto Vancouver Washington/No Virginia Wichita
AP-03	Antennas & Propagation	54	Atlanta Baltimore Benelux Buffalo Central New Eng- land Council Central & South Italy Chicago Columbus Dallas Dayton Denver Egypt Finland Florida West Coast Houston Hungary Huntsville	Indonesia Israel Kitchener-Waterloo Long Island/NY Los Angeles Council Milwaukee Montreal New Jersey Coast New South Wales North Italy North Jersey Oakland-East Bay/ Santa Clara Valley/ San Francisco Orlando Ottawa Philadelphia Phoenix Poland Princeton	Rio de Janeiro Saint Louis San Diego South Africa S Brevard-Indian River Southeastern Michigan Seattle Spain Spokane Springfield Sweden Switzerland Syracuse Tokyo Tucson Vancouver Washington/No Virginia Germany (West) Winnipeg
BT-02	Broadcast Technology	5	New York Indonesia	Ottawa Philadelphia	Tokyo
CAS-04	Circuits & Systems	37	Beijing Buenaventura Central New Eng- land Council Dallas/Fort Worth Delhi Finland Germany (West) Hamilton Hong Kong Houston Israel Kitchener-Waterloo	Korea Lehigh Valley Los Angeles Council Montreal New Jersey Coast North Italy Ottawa Philadelphia Phoenix Pikes Peak Portland Princeton	Rio de Janeiro Seattle Singapore Southeastern Michigan Spokane Switzerland Syracuse Taipei Tokyo Toronto Twin Cities United Kingdom & the Republic of Ireland Yugoslav

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
COMM-19	Communications	80	Alabama Argentina Atlanta Baltimore Broward Central New Eng- land Council Central Texas Charlotte Chicago Chile Columbus Dallas Dayton Denver Eastern North Carolina/ Central North Carolina/ Winston-Salem El Salvador France Galveston Bay Guatemala Greece Hamilton Hong Kong Houston Hungary 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 Norway 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 Taipei Tokyo Toronto Tucson Twin Cities United Kingdom & the Republic of Ireland Uruguay Vancouver Venezuela Victorian Winnipeg Washington/No Virginia Yugoslav
CHMT-21	Components, Hybrids & Manufacturing Technology	12	Beijing Central New Eng- land Council Chicago Los Angeles Council	North Italy/ Central & South Italy Philadelphia Phoenix Portland	San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Toronto Tokyo
CE-08	Consumer Electronics	6	Chicago New York	Ottawa Philadelphia	Princeton Tokyo
CS-23	Control Systems	34	Berkshire Buffalo Central New Eng- land Council 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 South Brazil	Schenectady Singapore Southeastern Michigan Spokane Taipei Tokyo Toledo United Kingdom & the Republic of Ireland Vancouver Wichita

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

Code	Society Name	No of Chapters	Section/Council Location		
COMP-16	Computer	133	Akron Alabama Argentina Arkansas Atlanta Baltimore Binghamton Beijing Berkshire Broward Buffalo Calumet Canadian Atlantic Cedar Rapids Central Georgia Central New Eng- land Council Central Texas Charlotte Chicago Chile China Lake Cleveland Columbus Connecticut Corpus Christi Dallas Dayton Delhi Denver Eastern No Carolina Eastern Shore East Tennessee/ Oak Ridge Egypt El Salvador Finland Florida West Coast Fort Worth France Galveston Bay Germany (West) Guatemala Gujarat Hamilton Hampton Roads	Hong Kong Houston Huntsville Illinois Valley Indian Council Indonesia Israel Kansas City Kharagpur Kingston Kitchener-Waterloo Korea Long Island Los Angeles Council Louisville Maine Memphis Mexico Miami Mid-Hudson Milwaukee Mohawk Valley Montreal Moscow Nashville Nebraska New Hampshire New Jersey Coast New Orleans New South Wales New York New Zealand North North Italy North Jersey Northern Canada Northern Virginia Oklahoma City Orange County Orlando Ottawa Palm Beach Panama Peru Philadelphia Phoenix Pikes Peak	Pittsburg Portland Princeton Puerto Rico & Caribbean Quebec Richland Rio de Janeiro Rochester Sacramento Saint Louis San Diego Santa Clara Valley/ Oakland-East Bay/ San Francisco South Brazil Schenectady Seattle Singapore South Africa S Brevard Indian River South Saskatchewan Southeastern Michigan Southern Alberta Southern Minnesota Spain Spokane Switzerland Syracuse Taipei Tokyo Toledo Toronto Tri Cities Tucson Twin Cities United Kingdom & the Republic of Ireland Uruguay Vancouver Venezuela Victorian Washington Western Puerto Rico Wichita Winnipeg Worcester County
DEI-32	Dielectrics & Electrical Insulation	4	Montreal/Ottawa Tokyo	Toronto/Kingston/ Hamilton/London/ Kitchener-Waterloo	Vancouver
E-25	Education	5	Central New Eng- land Council	Los Angeles Council Mexico	Tokyo Winnipeg
EMC-27	Electromagnetic Compatibility	30	Atlanta Baltimore Beijing Central New Eng- land Council Central Texas Chicago Dallas/Fort Worth Dayton Denver	Denver (Littleton) France Israel Long Island/NY Los Angeles Council Mohawk Valley Montreal New Jersey Coast Orange County Ottawa	Philadelphia Phoenix San Diego Santa Clara Valley Seattle Sweden Switzerland Tokyo Tucson Twin Cities Washington/No Virginia

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

Code	Society Name	No of Chapters	Section/Council Location		
ED-15	Electron Devices	45	Buenaventura Central New Eng- land Council Chicago Cleveland Columbus Dallas Houston Hungary India Council Israel Kitchener-Waterloo Korea Lehigh Valley Los Angeles Council Mid-Hudson	Milwaukee New Jersey Coast North Italy Orlando Ottawa Philadelphia Phoenix Pikes Peak Pittsburgh Portland Princeton Rio de Janeiro Rochester Saint Louis San Diego Santa Clara Valley/ San Francisco	Schenectady Southeastern Michigan Spokane Springfield Switzerland Syracuse Taipei Tokyo Toronto Twin Cities United Kingdom & Republic of Ireland Virginia Mountain Washington/No Virginia Yugoslav
EM-14	Engineering Management	37	Argentina Atlanta Buffalo Canaveral Central New Eng- land Council Chicago Cleveland Dayton El Salvador Huntsville Indian Council Israel Los Angeles Council	Madras Mexico Miami Mohawk Valley Montreal Nebraska New Jersey Coast North Jersey/NY Ottawa Philadelphia Pittsburgh Portland Puerto Rico & Caribbean	Rochester San Diego Santa Clara Valley/ San Francisco South Brazil Spokane Toronto Tri-Cities Vancouver Victorian Washington/No Virginia Winnipeg
EMB-18	Engineering in Medicine & Biology	30	Atlanta Baltimore Central New Eng- land Council Central Indiana Chicago Cleveland Columbus Dallas/Fort Worth Dayton Denver	Eastern North Carolina Houston Los Angeles Council Memphis Miami Milwaukee Montreal NY/Long Island/ North Jersey New Orleans	Philadelphia Portland Princeton Rochester Santa Clara Valley South Brazil Seattle Tokyo Twin Cities Washington/No Virginia Winnipeg
GRS-29	Geoscience & Remote Sensing	8	Denver Los Angeles Council	Oakland East Bay Santa Clara Valley Southeastern Michigan	Springfield Tokyo Washington/No Virginia
IE-13	Industrial Electronics	18	Arkansas Chicago Chile Cleveland India Council Israel	Kerala Los Angeles Council Mexico Milwaukee Montreal/St. Maurice North Italy	Rochester Singapore South Africa Tokyo Toledo Vancouver

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
IA-34	Industry Applications	70	Akron Alabama Atlanta Bahia Baltimore Baton Rouge Buffalo Calumet Canadian Atlantic Central New Eng- land Council Chicago Chile Cincinnati Cleveland Columbus Dallas Dayton Delaware Bay Denver Eastern No Carolina El Salvador Hamilton Hong Kong	Houston India Council Israel Kerala Los Angeles Council Madras Maine Memphis Mexico Miami Middle Tennessee Milwaukee Montreal Nashville North Jersey Northern Canada NY/Long Island New Zealand North Orange County Oakland-East Bay Oklahoma City Orlando Panama Philadelphia	Pittsburgh Portland Rio de Janeiro Rochester Saint Louis San Francisco South Brazil Schenectady Seattle South Africa South Saskatchewan Southern Alberta Southeastern Michigan Spokane Syracuse Tokyo Toledo Toronto Tulsa Twin Cities Vancouver Virginia Mountain Washington/No Virginia Wichita
IT-12	Information Theory	16	Beijing Benelux Central New Eng- land Council Eastern No Carolina/ Central No Carolina/ Winston-Salem	Denver Hamilton Kitchener-Waterloo Los Angeles Council Montreal Philadelphia Phoenix	Princeton Santa Clara Valley/ San Francisco Southeastern Michigan Tokyo Washington/No Virginia
IM-09	Instrumentation & Measurement	17	Central New Eng land Council Cleveland Denver Los Angeles Council Milwaukee	Montreal New Jersey Coast NY/Long Island/ North Jersey North Italy Ottawa Portland	San Diego Santa Clara Valley Tokyo Toronto Uruguay Washington
LEO-36	Lasers & Electro-Optics	24	Atlanta Central New Eng- land Council Central Texas Chicago Cleveland Columbus Dallas Huntsville	Long Island Los Alamos Los Angeles Council Mohawk Valley New Jersey Coast Oakland East Bay/San Francisco/Santa Clara Valley Orlando	Ottawa Portland Phoenix Princeton Sacramento Springfield Tokyo Toronto Washington/No Virginia
MAG-33	Magnetics	15	Central Indiana Central New Eng- land Council Denver Houston Los Angeles Council	Milwaukee Philadelphia Pittsburgh Rochester San Diego	Santa Clara Valley/ San Francisco Tokyo Twin Cities United Kindgom & the Republic of Ireland Washington/No Virginia

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
MTT-17	Microwave Theory & Techniques	69	Atlanta Baltimore Beijing Benelux Buffalo Central New Eng- land Council Central & South Italy Chicago Columbus Cleveland Dallas Dayton Denver Egypt Finland Florida West Coast France Germany (West) Houston Hungary Huntsville India Council	Indonesia Israel Ithaca Kitchener-Waterloo Korea Long Island/NY Los Angeles Council Milwaukee Montreal New Hampshire New Jersey Coast New South Wales North Italy North Jersey Orlando Ottawa Philadelphia Phoenix Poland Portland Princeton Rio de Janeiro Saint Louis San Diego San Fernando Valley	Santa Clara Valley/ San Francisco South Brazil Schenectady Seattle South Africa S Brevard-Indian River Southeastern Michigan Spain Springfield Sweden Switzerland Syracuse Taipei Tokyo Tucson Twin Cities United Kingdom & the Republic of Ireland Venezuela Virginia Mountain Washington/No Virginia Winnipeg Yugoslavia
NPS-05	Nuclear & Plasma Sciences	6	Central New Eng- land Council India Council	Los Angeles Council Princeton/New Jersey Coast	Tokyo Washington/No Virginia/ Baltimore
OE-22	Oceanic Engineering	8	Canadian Atlantic Central New Eng- land Council	Houston/Galveston Bay New Orleans San Diego	Seattle Victoria Washington/No Virginia
PC-26	Professional Communication	9	Central New Eng- land Council Chicago	Los Angeles Council Mexico/Morelos Ottawa Philadelphia	United Kingdom & the Republic of Ireland Washington/No Virginia Winnipeg
PEL-35	Power Electronics	4	Chile North Italy South Africa Tokyo		

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
PE-31	Power Engineering	130	Akron	Guatemala	Pittsburgh			
			Alabama	Hong Kong	Portland			
			Argentina	Hamilton	Princeton			
			Arkansas	Honduras	Providence			
			Atlanta	Houston	Puerto Rico &			
			Baltimore	India Council	Caribbean			
			Bahia	Israel	Richland			
			Bangalore	Kansas City	Rio de Janeiro			
			Beijing	Lafayette	Rochester			
			Berkshire	Las Vegas	Sacramento			
			Binghamton	Lehigh Valley	Saint Louis			
			Boston	London	San Diego			
			Broward	Los Angeles Council	San Francisco			
			Buffalo	Madras	Santa Clara Valley			
			Calumet	Maine	South Brazil			
			Canadian Atlantic	Memphis	Schenectady			
			Canton	Mexico	Seattle			
			Central Illinois	Monterrey	Sharon			
			Central Indiana	Miami	Shreveport			
			Central Texas	Mid-Hudson	Singapore			
			Charlotte	Middle Tennessee	Siouxland			
			Chattanooga	Milwaukee/Madison/	South Africa			
			Chicago	NE Wisconsin	South Saskatchewan			
			Chile	Missouri Slope	Southern Alberta			
			Cincinnati	Montreal	Southeastern Michigan			
			Cleveland	Morelos	Spokane			
			Columbus	Nebraska	Sweden			
			Connecticut	New Hampshire	Syracuse			
			Corpus Christi	New Orleans	Tri Cities			
			Costa Rica	New South Wales	Tokyo			
			Dallas	NY/Long Island	Toledo			
			Dayton	North Italy	Toronto			
			Delaware Bay	North Jersey	Tucson			
			Denver	Northern Canada	Tulsa			
			Denver-Western Area	Oakland-East Bay	Twin Cities			
			Eastern No Carolina	Oklahoma City	Uruguay			
			East Tennessee	Orange County	Vancouver			
			Egypt	Orlando	Venezuelan			
			El Salvador	Ottawa	Vermont			
			Florida West Coast	Palm Beach	Victorian			
			Fort Worth	Panama	Virginia Mountain			
			France	Peru	Washington/No Virginia			
			Greece	Philadelphia	Wichita			
				Phoenix	Winnipeg			
					Worcester County			
			R-07	Reliability	23	Albuquerque	Dallas	North Jersey
						Baltimore	Denver	Ottawa
						Binghamton	Florida West Coast	Philadelphia
						Canaveral/Daytona	Los Angeles Council	Santa Clara Valley
						Central New Eng- land Council	Mohawk Valley	Tri Cities
						Chicago	Montreal	Tokyo
						Cleveland	North Italy/Central & South Italy	Twin Cities
							NY/Long Island	Washington/No Virginia
			RA-24	Robotics & Automation	3	Chile	Princeton	Tokyo



## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/90

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
SP-01	Signal Processing	44	Atlanta Beijing Central New Eng- land Council Central & South Italy Central Indiana Central Pennsylvania Central Texas Columbus Connecticut Chicago Dallas Dayton Finland Florida West Coast France	Houston Kitchener-Waterloo Korea Long Island Milwaukee New Jersey Coast New South Wales Northern Virginia North Jersey Ottawa Los Angeles Council Orlando Philadelphia Pittsburgh Rochester	San Diego Santa Clara Valley Singapore South Africa Southeastern Michigan Spain Switzerland Taipei Tokyo Twin Cities Turkey United Kingdom & the Republic of Ireland Washington Yugoslav
SIT-30	Social Implications of Technology	8	Central New Eng- land Council Los Angeles Council	Santa Clara Valley/ San Francisco/ Oakland-East Bay Switzerland	Washington/Baltimore/ No Virginia Twin Cities Toronto Tokyo
SMC-28	Systems, Man & Cybernetics	10	Chile Connecticut Mexico Milwaukee	North Jersey Philadelphia Schenectady	Santa Clara Valley/ San Francisco Tokyo Washington/No Virginia
UFFC-20	Ultrasonics, Ferroelectrics & Frequency Control Society	10	Central New Eng- land Council Dallas Long Island	Los Angeles Council Orlando Pittsburgh Portland	Santa Clara Valley Tokyo Washington/Baltimore/ No Virginia
VT-06	Vehicular Technology	21	Cleveland Dallas Denver Los Angeles Council Miami Montreal NY/Long Island/ North Jersey	New Jersey Coast Norway Orlando Philadelphia Pittsburgh Sacramento Santa Clara Valley/ Oakland-East Bay/ San Francisco Bay	Southeastern Michigan Sweden Tokyo Toronto Vancouver Washington/No Virginia Winnipeg

Joint Chapters, administered by two or more Sections and/or representing two or more Societies are counted as one Chapter. The total of Chapters (Joint or Single) is 819.

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

## SECTION D

TABLE 1 - SOCIETY AFFILIATES, DECEMBER 31, 1990; 5-YEAR COMPARISON

CODE NO.	SOCIETY	12/31/90	12/31/89	12/31/88	12/31/87	12/31/86
01	SIGNAL PROCESSING	12	9	7	8	11
02	BROADCAST TECHNOLOGY	2	2	2	3	1
03	ANTENNAS & PROPAGATION	3	3	3	2	1
04	CIRCUITS & SYSTEMS	3	2	5	8	10
05	NUCLEAR & PLASMA SCIENCES	149	160	170	183	190
06	VEHICULAR TECHNOLOGY	4	2	2	2	4
07	RELIABILITY	12	11	10	12	10
08	CONSUMER ELECTRONICS	3	5	5	3	4
09	INSTRUMENTATION & MEASUREMENT	5	5	2	2	3
10	AEROSPACE & ELECTRONIC SYSTEMS	10	9	7	9	8
12	INFORMATION THEORY	10	9	8	10	8
13	INDUSTRIAL ELECTRONICS	2	2	1	1	0
14	ENGINEERING MANAGEMENT	150	148	109	87	81
15	ELECTRON DEVICES	6	4	3	3	2
16	COMPUTER	27,157	25,115	20,712	15,495	15,116
17	MICROWAVE THEORY & TECHNIQUES	8	10	11	22	19
18	ENGINEERING IN MEDICINE & BIOLOGY	163	98	73	61	59
19	COMMUNICATIONS	304	271	251	211	171
20	ULTRASONICS, FERROELECTRICS & FREQUENCY CONTROL	5	5	6	7	7
21	COMPONENTS, HYBRIDS & MANUFACTURING TECHNOLOGY	42	35	30	14	14
22	OCEANIC ENGINEERING	14	12	11	15	14
23	CONTROL SYSTEMS	20	20	22	18	14
24	ROBOTICS & AUTOMATION	87	143	278		
25	EDUCATION	7	9	12	8	5
26	PROFESSIONAL COMMUNICATION	87	95	68	66	83
27	ELECTROMAGNETIC COMPATIBILITY	4	4	5	4	3
28	SYSTEMS, MAN & CYBERNETICS	45	42	43	51	33
29	GEOSCIENCE & REMOTE SENSING	79	80	69	71	41
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	11	11	8	4	5
31	POWER ENGINEERING	6	5	4	3	5
32	DIELECTRICS & ELECTRICAL INSULATION	11	11	10	11	12
33	MAGNETICS	85	90	96	103	106
34	INDUSTRY APPLICATIONS	4	2	2	2	3
35	POWER ELECTRONICS	1	1	1	5	
36	LASERS & ELECTRO-OPTICS	68	76	85	82	90
	TOTALS	28,579	26,506	22,131	16,586	16,133

## SECTION E

TABLE 1 - TECHNICAL INTEREST PROFILE (TIP)

12/31/90

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

CODE	DESCRIPTION	01	02	03	04	05	06	07	08	09	10
01	SIGNAL PROCESSING	1,709	1,170	630	551	648	1,713	368	972	73	815
02	BROADCAST TECHNOLOGY	585	415	340	240	218	551	196	266	48	294
03	ANTENNAS AND PROPAGATION	744	762	486	218	522	1,100	173	537	35	440
04	CIRCUITS AND SYSTEMS	1,511	785	672	698	760	1,919	268	631	50	572
05	NUCLEAR AND PLASMA SCIENCES	376	325	286	168	154	651	66	145	3	134
06	VEHICULAR TECHNOLOGY	307	263	239	490	170	336	151	150	25	185
07	RELIABILITY	553	324	248	203	226	592	72	189	14	167
08	CONSUMER ELECTRONICS	486	267	284	282	180	377	147	130	39	238
09	INSTRUMENTATION AND MEASUREMENT	412	310	251	210	190	463	126	178	46	177
10	AEROSPACE AND ELECTRONIC SYSTEMS	1,136	1,173	610	231	580	1,551	148	229	15	158
12	INFORMATION THEORY	333	232	101	98	115	328	63	233	16	188
13	INDUSTRIAL ELECTRONICS	1,017	955	892	875	592	953	443	602	131	610
14	ENGINEERING MANAGEMENT	2,845	2,577	1,893	1,272	1,374	3,273	581	766	238	625
15	ELECTRON DEVICES	1,129	500	290	268	430	1,648	122	437	26	683
16	COMPUTER	7,930	4,864	3,465	3,263	3,699	9,278	1,933	3,328	429	3,303
17	MICROWAVE THEORY AND TECHNIQUES	698	351	223	137	248	1,000	109	390	17	225
18	ENGINEERING IN MEDICINE AND BIOLOGY	793	545	369	523	348	810	195	379	45	257
19	COMMUNICATIONS	3,220	2,480	1,806	1,149	1,376	2,797	1,044	1,467	210	1,488
20	ULTRASONICS FERROELECTRICS AND FREQ. CONTROL	150	97	66	51	52	141	22	74	2	72
21	COMPONENTS, HYBRIDS AND MANUFACT. TECHNOL.	685	330	257	272	255	695	81	147	19	166
22	OCEANIC ENGINEERING	69	60	41	10	15	83	22	21	3	10
23	CONTROL SYSTEMS	542	521	455	415	317	795	171	469	55	338
25	EDUCATION	302	210	189	160	132	222	86	84	20	57
26	PROFESSIONAL COMMUNICATION	260	181	124	115	102	235	53	72	11	46
27	ELECTROMAGNETIC COMPATIBILITY	194	245	107	103	119	326	36	101	7	60
28	SYSTEMS, MAN AND CYBERNETICS	317	315	179	129	114	350	85	149	19	161
29	GEOSCIENCE AND REMOTE SENSING	98	141	64	46	191	171	59	76	8	65
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	113	123	70	38	42	114	31	32	8	17
31	POWER ENGINEERING	2,844	2,618	3,513	2,438	2,406	3,348	1,214	1,127	584	1,112
32	DIELECTRICS AND ELECTRICAL INSULATION	117	83	59	64	34	65	57	87	8	92
33	MAGNETICS	220	147	66	154	93	458	18	107	9	166
34	INDUSTRY APPLICATIONS	1,044	1,115	1,201	912	918	1,163	529	188	125	264
35	POWER ELECTRONICS	216	123	134	156	94	206	96	127	20	144
36	LASERS AND ELECTRO-OPTICS	784	414	300	169	267	833	123	276	20	342
37	SOLID STATE CIRCUITS	733	347	237	265	528	1,446	127	378	15	308
39	INTERDISCIPLINARY AND NEW ACTIVITIES	417	307	165	134	151	394	86	106	24	80
	TOTAL	34,889	25,675	20,312	16,507	17,660	40,385	9,101	14,650	2,417	14,059

## SECTION E

TABLE 2 - 1989 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	570	475	89	6	12,304	5,620	17,924	31.4	83.3	15.6	1.1
2	470	376	80	14	10,724	6,929	17,653	37.6	80.0	17.0	3.0
3	586	478	84	24	27,245	4,340	31,585	53.9	81.6	14.3	4.1
4	402	312	74	16	8,158	4,837	12,995	32.3	77.6	18.4	4.0
5	352	268	72	12	7,875	2,981	10,856	30.8	76.1	20.5	3.4
6	659	539	102	18	16,371	6,047	22,418	34.0	81.8	15.5	2.7
7	240	192	39	9	4,900	2,576	7,476	31.2	80.0	16.3	3.8
8	290	251	35	4	6,873	6,709	13,582	46.8	86.6	12.1	1.4
9	398	326	64	8	8,525	8,731	17,256	43.4	81.9	16.1	2.0
<u>10</u>	<u>791</u>	<u>720</u>	<u>64</u>	<u>7</u>	<u>17,419</u>	<u>23,460</u>	<u>40,879</u>	<u>51.7</u>	<u>91.0</u>	<u>8.1</u>	<u>0.9</u>
TOTAL	4,758	3,937	703	118	120,394	72,230	192,624	40.5	82.7	14.8	2.5

## SECTION E

TABLE 3 - 1989 CHAPTER MEETINGS BY SOCIETY, BY REGION

<u>REGION: 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>
SP-01	15	12	12	12	0	10	9	20	0	21	111
BT-02	2	0	0	0	0	0	1	0	0	5	8
AP-03	42	36	13	12	18	29	10	25	5	14	204
CAS-04	6	4	0	4	3	9	7	12	5	30	80
NPS-05	1	2	0	0	0	5	0	0	6	3	17
VT-06	1	23	2	2	3	2	5	2	0	5	45
R-07	22	25	2	12	17	6	0	0	0	5	89
CE-08	3	0	0	0	0	0	0	0	0	6	9
IM-09	6	2	0	0	3	8	2	0	0	8	29
AES-10	25	12	9	0	6	21	3	4	0	10	90
IT-12	2	0	4	0	2	4	2	0	0	3	17
IE-13	0	0	0	9	3	0	6	2	29	13	62
EM-14	21	19	2	3	0	12	9	0	23	2	91
ED-15	20	9	0	10	4	9	0	0	0	2	54
COMP-16	87	28	55	22	28	56	41	21	22	40	400
MTT-17	12	6	0	6	5	20	0	14	6	17	86
EMB-18	27	9	7	11	6	4	3	0	3	13	83
COM-19	20	18	18	4	10	33	5	2	39	19	168
UFC-20	3	5	6	0	4	2	0	0	0	15	35
CHMT-21	8	0	0	0	0	6	0	0	0	14	28
OE-22	2	0	2	0	2	4	2	0	0	0	12
CS-23	10	9	9	3	0	0	0	4	5	10	50
RA-24	5	0	0	0	0	0	0	0	0	0	5
E-25	2	0	0	0	0	0	0	0	6	11	19
PC-26	0	3	0	0	0	0	0	3	0	0	6
EMC-27	7	7	1	11	7	38	1	2	0	11	85
SMC-28	2	1	0	0	0	0	0	0	0	10	13
GRS-29	0	6	0	0	0	8	0	0	0	7	21
SIT-30	8	8	0	0	0	0	0	7	0	10	33
PE-31	53	69	79	48	44	80	35	4	54	50	516
EI-32	0	0	0	0	0	0	2	0	0	3	5
MAG-33	5	9	0	12	0	19	0	4	0	18	67
IA-34	6	15	23	9	12	30	1	0	13	12	121
LEO-36	16	7	9	11	6	10	2	0	0	2	63
<u>TOTAL</u>	<u>439</u>	<u>344</u>	<u>253</u>	<u>201</u>	<u>183</u>	<u>425</u>	<u>146</u>	<u>126</u>	<u>216</u>	<u>389</u>	<u>2722</u>

Not All Reporting Complete.

## SECTION E

TABLE 4 - SOCIETY AND OTHER SPONSORED AND COSPONSORED CONFERENCES SUMMARY, BY SOCIETY, BY REGION 12/31/90

DIV.	SOCIETY	REGIONS										Total	
		1	2	3	4	5	6	7	8	9	10		
I	Circuits and Systems	1		1	1		2	1					6
	Components, Hybrids, and Mfg. Technology	2	1				6	1	1				11
	Electron Devices	4		5	1	1	14						25
	Lasers and Electro-Optics	1				1	7	1					10
	Solid-State Circuits						2						2
II	Dielectrics and Electrical Insulation			1					1	1			3
	Industry Applications		2	3	1	1	3		1				11
	Instrumentation and Measurement					1	1	1					3
	Power Electronics		1		1	1	1						4
III	Broadcast Technology		1										1
	Communications	1		5	1		6	1	1	1			16
	Consumer Electronics				1								1
IV	Vehicular Technology			1	3								4
	Antennas and Propagation					1							1
V/VIII	Electromagnetic Compatability		1										1
	Magnetics						2		1				3
	Microwave Theory and Techniques			1		2							3
	Nuclear and Plasma Sciences			1			3						4
V/VIII	Computer	6	11	14	2	4	18		9		1		65
VI	Education							1	1				2
	Engineering Management						1						1
	Professional Communication								1				1
	Reliability			2			1						3
	Social Implications of Technology												0
VII	Power Engineering	1		1	1			1	1		1		6
IX	Aerospace and Electronic Systems		3	3		1	1						8
	Geoscience and Remote Sensing		1										1
	Oceanic Engineering		3										3
	Signal Processing						2	1					3
	Ultrasonics, Ferroelectrics and Freq. Control		1		1		1						3
X	Control Systems		1				2	1					4
	Engineering in Medicine and Biology		2	1									3
	Industrial Electronics				1		1	1	1				4
	Information Theory						1		1				2
	Neural Networks						1						2
	Robotics and Automation						1						3
	Systems, Man, and Cybernetics		1	1			1	1					4
OTHER - Not (Co)Sponsored by a Society	1		2		1	1	3	1	1	1			11
Number of Conferences in Region *		15	30	37	10	12	65	10	20	2	3		204

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

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, 1990

<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>
<u>1990</u>											
Sections	22	25	45	25	22	36	20	31	22	29	277
Subsections	6	4	6	5	6	4	0	4	7	2	44
Chapters	123	100	82	58	67	107	64	71	60	87	819
Councils	2	1	5	0	0	2	3	0	4	3	20
Student Branches	95	63	81	58	63	65	49	60	71	102	707
Student Branch Chapters	27	16	27	22	16	18	12	4	11	26	179
<u>1989</u>											
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
<u>1988</u>											
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

\* 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 IN 1990

REGION 3

The Sarasota-Bradenton Subsection of the Florida West Coast Section was dissolved on February 20, 1990.

REGION 4

The Kalamazoo-Battle Creek Subsection of the West Michigan Section was dissolved on February 20, 1990.

REGION 8

The Kuwait Section was formed on February 20, 1990.

The Bergen Subsection of the Norway Section was formed on May 5, 1990.

The Moscow Section was formed on August 15, 1990.

The Romania Section was formed on August 15, 1990.

The East Africa Section was renamed Kenya Section on August 15, 1990.

The Jeddah Section was renamed Western Saudi Arabia Section on August 15, 1990.

REGION 9

The Guadalajara Subsection was elevated to Section status on August 15, 1990.

The Tampico Subsection of the Monterrey Section was formed on August 15, 1990.

The Laguna Subsection of the Monterrey Section was formed on August 15, 1990.

The Reynosa Subsection of the Monterrey Section was formed on August 15, 1990.

The Caribbean Council was formed on August 15, 1990.

The Sao Paulo Section was renamed South Brazil Section on February 20, 1990.

REGION 10

The Baroda Subsection was elevated to Section status and renamed the Gujarat Section on August 15, 1990.



## SECTION F

TABLE 3 - IEEE CHAPTER CHANGES IN 1990

<u>Region/Section</u>	<u>New Chapters</u>	<u>Chapters Dissolved</u>	<u>Change in Status of Existing Chapters</u>
<u>REGION 1</u>			
CNEC	CS-23		
Long Island	AES-10		
New Jersey Coast			*SP-01/CAS-04
New Jersey Coast			*IM-09/C-16
New York		AES-10 Jt. North Jersey	
Princeton	NPS-05 Jt. New Jersey Coast		
Princeton	IT-12		
<u>REGION 2</u>			
Baltimore	EMC-27		
Columbus	ED-15/LEO-36		
Delaware Bay		C-16	
Washington	IA-34 Jt. Wa./No. Va.		
<u>REGION 3</u>			
Eastern North Carolina	IT-12/COM-19 Jt. Central N. Carolina/Winston-Salem		
Eastern North Carolina	EMB-18		
Gainesville		C-16	
Jacksonville		PE-31	
Memphis	C-16		
New Orleans	EMB-18		
<u>REGION 4</u>			
Central Indiana	EMB-18		
Central Indiana	SP-01		
Central Indiana	MAG-33		
Chicago			**SP-01/CE-08
Twin Cities	R-07		
<u>REGION 5</u>			
Denver	MAG-33		
Kansas City	C-16		
Lafayette	PE-31		
Saint Louis	IA-34		
Wichita	AES-10		
<u>REGION 6</u>			
Albuquerque		AP-03/MTT-17/EMC-27	
Albuquerque		ED-15	
Albuquerque		C-16	
Albuquerque		PE-31	
Oakland-East Bay		EMB-18	
Phoenix			*AP-03/ED-15/MTT-17/EMC-27/LEO-36
Phoenix		IA-34	
Sacramento	LEO-36		
San Diego			*AP-03/ED-15/MTT-17
Santa Clara Valley	IM-09		
Santa Clara Valley	SIT-30 Jt. San Francisco/ Oakland-East Bay		

\* Existing Chapter has expanded.

\*\* Two existing Chapters became joint.

\*\*\* Existing joint Chapter became two single Chapters.

TABLE 3 - IEEE CHAPTER CHANGES IN 1990

<u>Region/Section</u>	<u>New Chapters</u>	<u>Chapters Dissolved</u>	<u>Change in Status of Existing Chapters</u>
<u>REGION 7</u>			
London	PE-31		
Montreal	EMC-27		
South Saskatchewan	PE-31/IA-34		
Toronto	SIT-30		
Vancouver	EM-14		
<u>REGION 8</u>			
Central & South Italy	SP-01/AES-10		
Greece	COM-19		
Hungary	AP-03/ED-15/MTT-17/COM-19		
Israel	EM-14		
Moscow	C-16		
North Italy	R-07 Jt. Central & South Italy		
North Italy	C-16		
North Italy	CHMT-21 Jt. Central & South Italy		
Norway	VT-06/COM-19		
Poland	AP-03/AES-10/MTT-17		
South Africa	IE-13/PE-31/IA-34/PEL-35		
Sweden	PE-31		
Sweden	EMC-27		
Switzerland	EMC-27		
Turkey	SP-01		
United Kingdom & Rep. of Ireland			***SP-01
Yugoslav	ED-15		
<u>REGION 9</u>			
Argentina	EM-14		
Chile	COM-19		
Chile			*IE-13/IA-34/PEL-35
Chile			*CS-23/RA-24/SMC-28
Costa Rica	PE-31		
El Salvador	C-16		
Guatemala	C-16		
Guatemala	COM-19		
Honduras	PE-31		
Mexico	PC-26 Jt. Morelos		
PR & Caribbean	EM-14		
Uruguay	C-16		
Uruguay	COM-19		
Venezuelan	PE-31		
Venezuelan	C-16		
Western Puerto Rico	C-16		
<u>REGION 10</u>			
Beijing	EMC-27		
Delhi	C-16		
Gujarat	C-16		
Indonesia	C-16		
Madras			****EM-14/IA-34
Madras			****PE-31
Singapore	SP-01		
Taipei	ED-15		
Taipei	SP-01		
Taipei	COM-19		
Tokyo	PEL-35		
Tokyo	RA-24		
Victorian	EM-14		

\* Existing Chapter has expanded.

\*\* Two existing Chapters became joint.

\*\*\* Existing joint Chapter became two single Chapters.

\*\*\*\* Chapter Reestablished

SECTION F

TABLE 4 - STUDENT BRANCH CHANGES 1990  
Formations

Region 1

Thames Valley State Technical College

Region 2

Morgan State University  
Pennsylvania State University-Beaver  
Pennsylvania State University-Wilkes Barre  
Point Park College

Region 3

South Carolina State College

Region 7

Assiniboine Community College

Region 8

Bilkent University  
Technical University of Budapest  
Universitat Hannover  
King Abdulaziz University  
Middle East Technical University  
University of Pretoria

Region 9

Instituto Tecnologico de Tuxtla Gutierrez  
Instituto Tecnologico de Hermosillo  
Universidad Nacional Autonoma de Honduras  
Instituto Tecnologico y de Estudios Superiores-Mexico City  
Inter American University of Puerto Rico  
Universidad Autonoma Metropolitana  
Universidad Federal do Rio de Janeiro  
Universidad Santa Maria La Antigua  
Universidad Autonoma de Zacatecas

Region 10

Chungnam National University  
Delhi Institute of Technology  
Chung-Ang University  
Government College of Engineering  
Gujarat University  
James Cook University of North Queensland  
Jawaharlal Nehru Engineering College  
Kumaraguru College of Technology  
NMAM Institute of Technology  
National Engineering College  
University of Queensland  
R.V.R. and J.C.O.P. College of Engineering  
SRM Engineering College  
University of Santo Tomas  
University of Technology, Sydney  
Thadomal Shahani Engineering College  
Walchand College of Engineering

## SECTION G

TABLE 1 - IEEE TECHNICAL PERIODICAL PUBLICATIONS OUTPUT - 1990 (Dist. Data as of 9/30/90)

Member Dist.	Non-M Dist.	Total Dist.	Periodicals	Freq.	Total Pages	Edit. Pages	Adv. Pages
<u>INSTITUTE-WIDE PUBLICATIONS</u>							
303117	4439	307556	SPECTRUM	12	1398	626.42	771.58
28503	4368	32871	PROCEEDINGS	12	1936	1900.00	36.00
46290	205	46495	POTENTIALS	4	224	218.00	
<u>TRANSACTIONS &amp; JOURNALS</u>							
ACOUSTICS, SPEECH, & SIGNAL							
14318	2117	16435	PROCESSING	12	2272		
8402	1638	10040	AEROSPACE & ELECTRONIC SYSTEMS	6	1078		
9380	1936	11316	ANTENNAS & PROPAGATION	12	2048		
10100	2256	12356	AUTOMATIC CONTROL	12	1456		
3753	1687	5440	BIOMEDICAL ENGINEERING	12	1266		
2387	1165	3552	BROADCASTING	4	324		
7632	2006	9638	CIRCUITS & SYSTEMS	12	1610		
11156	2582	13738	COMMUNICATIONS	12	2264		
COMPONENTS, HYBRIDS, &							
3951	1411	5362	MANUFACTURING TECHNOLOGY	4	1208		
COMPUTER-AIDED DESIGN OF INTE-							
4567	1473	6040	GRATED CIRCUITS & SYSTEMS	12	1320		
11860	2986	14846	COMPUTERS	12	1552		
5100	1396	6496	CONSUMER ELECTRONICS	4	994		
2770	1215	3985	EDUCATION	4	400		
2024	1299	3323	ELECTRICAL INSULATION	6	1240		
3637	1463	5100	ELECTROMAGNETIC COMPATIBILITY	4	328		
10267	1343	11610	ELECTRON DEVICE LETTERS	12	662		
6907	2052	8959	ELECTRON DEVICES	12	2740		
2937	1575	4512	ENERGY CONVERSION	4	800		
8749	1428	10177	ENGINEERING MANAGEMENT	4	348		
1060	1083	2143	ENGINEERING MANAGEMENT REVIEW	4	196		
2378	1329	3707	GEOSCIENCE & REMOTE SENSING	6	1096		
6064	1595	7659	INDUSTRIAL ELECTRONICS	4	628		
10032	1745	11777	INDUSTRY APPLICATIONS	6	1340		
5636	1878	7514	INFORMATION THEORY	6	1620		
5043	1919	6962	INSTRUMENTATION & MEASUREMENT	4	1116		
6942	1146	8088	KNOWLEDGE & DATA ENGINEERING	4	456		
2902	1347	4249	LIGHTWAVE TECHNOLOGY	12	2012		
3530	1454	4984	MAGNETICS	6	3268		
2391	1132	3523	MEDICAL IMAGING	4	492		
9753	2000	11753	MICROWAVE THEORY & TECHNIQUES	12	1816		
5619	1077	6696	NEURAL NETWORKS	4	292		
2126	1570	3696	NUCLEAR SCIENCE	6	2328		
1872	1096	2968	OCEANIC ENGINEERING	4	408		
6702	1025	7727	PARALLEL AND DISTRIBUTED SYSTEMS	4	528		
PATTERN ANALYSIS & MACHINE							
6614	1899	8513	INTELLIGENCE	6	1280		
6677	997	7674	PHOTONICS TECHNOLOGY LETTERS	12	936		
1130	1145	2275	PLASMA SCIENCE	6	1076		
3859	1676	5535	POWER DELIVERY	4	1540		
4396	1312	5708	POWER ELECTRONICS	4	528		
4442	1802	6244	POWER SYSTEMS	4	1584		
2372	1230	3602	PROFESSIONAL COMMUNICATION	4	252		
3506	1823	5329	QUANTUM ELECTRONICS	12	1892		
4004	1864	5868	RELIABILITY	5	636		
6096	1398	7494	ROBOTICS & AUTOMATION	4	800		
7995	1575	9570	SELECTED AREAS IN COMMUNICATIONS	9	1830		
14577	1068	15645	SEMICONDUCTOR MANUFACTURING	4	272		
14975	2844	17819	SOFTWARE ENGINEERING	12	1500		
10885	1913	12798	SOLID-STATE CIRCUITS	6	1652		
4530	1888	6418	SYSTEMS, MAN, & CYBERNETICS	6	1524		
ULTRASONICS, FERROELECTRICS &							
1825	1300	3125	FREQUENCY CONTROL	6	800		
2925	1233	4158	VEHICULAR TECHNOLOGY	4	432		
302755	81391	384146	Total TRANSACTIONS & JOURNALS		60680		

Translation Journal of Magnetism not included.

## SECTION C

TABLE 1 - (Continued)

Member Dist.	Non-M Dist.	Total Dist.	Periodicals	Freq.	Total Pages	Edit. Pages	Adv. Pages
<u>MAGAZINES</u>							
8773	1018	9791	AEROSPACE & ELECTRONIC SYSTEMS MAGAZINE	12	686	686.00	
14597	1108	15705	ASSP MAGAZINE	4	204	178.93	25.07
15962	1473	17435	CIRCUITS & DEVICES MAGAZINE	6	436	425.75	10.25
28782	1824	30606	COMMUNICATIONS MAGAZINE	12	1186	898.00	288.00
100332	3191	103523	COMPUTER	12	1688	1318.43	369.57
23175	1030	24205	COMPUTER APPLICATIONS IN POWER	4	256	218.40	37.60
13083	2393	15476	COMPUTER GRAPHICS & APPLICATIONS	6	620	586.08	33.92
10231	1201	11432	CONTROL SYSTEMS MAGAZINE	4	560	482.80	77.20
6144	1352	7496	DESIGN & TEST OF COMPUTERS	6	468	443.84	24.16
2128	1013	3141	ELECTRICAL INSULATION MAGAZINE	6	400	347.00	53.00
6840	1038	7878	ENGINEERING IN MEDICINE & BIOLOGY	4	408	403.00	5.00
6144	1952	8096	EXPERT MAGAZINE	4	580	545.40	34.60
2955	1009	3964	LIGHTWAVE COMMUNICATIONS SYSTEMS	4	306	284.00	22.00
13058	1009	14067	MICRO	6	620	609.31	10.69
8670	1717	10387	NETWORK MAGAZINE	6	364	325.00	39.00
21763	1091	22854	POWER ENGINEERING REVIEW	12	868	868.00	
26074	2143	28217	SOFTWARE MAGAZINE	6	748	641.25	106.75
2497	1017	3514	TECHNOLOGY & SOCIETY MAGAZINE	4	176	173.00	3.00
308253	25570	333823	Total MAGAZINES		10574	9434.19	1139.81

TABLE 2 - 1990 IEEE NONSERIAL PUBLICATIONS OUTPUT

	Number of Items	Total Pages		Number of Items	Total Pages
Conference Records	170	80000	Preprints	573	3969
IEEE PRESS Books	19	8446	Standards	62	7/89

SECTION H

1990 EDUCATIONAL ACTIVITIES STATISTICS

ACCREDITATION

	<u>ABET</u>	<u>CSAB</u>
Programs reviewed	150	32
Institutions visited	119	32
Evaluators trained	68	9

INDIVIDUAL LEARNING ACTIVITIES

Self Study Courses

In production	3
Products available	12
Units sold	739

Video Tutorials \*

In production	21
Products available	72
Units sold	3,523

Personal Development Products

Products available	35
Units sold	488

VIDEOCONFERENCES \*

Expert Systems: Database & Real Time Systems (March)	
Sites	128
Attendance	3,200

Rapid Development of Software (May)	
Sites	132
Attendance	2,904

Total Quality: Malcolm Baldrige Award Approach to Quality Management (September)	
Sites	215
Attendance	6,450

3D Computer Graphics (October)	
Sites	100
Attendance	2,500

Computer Simulation: Engineering the Future (November)	
Sites	118
Attendance	2,242

Fiber Optics Applications (December)	
Sites	130
Attendance	2,735

Total Attendance **	20,031
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\* - Total videos in circulation - 138 Programs (48 new titles).

\*\* - These numbers are for the live broadcast - we estimate at least double the number who see the taped copies in the next year.

Section I

STANDARDS ACTIVITIES

Active Standards Publications	648
Standards Projects in Development	634
Standards Withdrawn	42
New Standards Published	30
Revisions Published	20
Collections Published	9
Special Publications	3
Pages Published	8859
Publication Units Sold	95,245
Average Units Sold per Order	1.95
Seminar Topics	15
Classes Conducted	35